DASSAULT SYSTEMES | The **3D**EXPERIENCE® Company

Course Catalog

3DEXPERIENCE R2018x / R2019x

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Learning Experience | Course Catalog

Learning Experience | Course Catalog

3DEXCITE

CATIA

Learning Experience | Course Catalog

Learning Experience | Course Catalog

Learning Experience | Course Catalog

Learning Experience | Course Catalog

Learning Experience | Course Catalog

Learning Experience | Course Catalog

DELMIA

Learning Experience | Course Catalog

ENOVIA

Learning Experience | Course Catalog

Learning Experience | Course Catalog

SIMULIA

Learning Experience | Course Catalog

3DEXCITE

Marketing Content Creation

3DEXCITE Marketing Experience Artist Essentials

Course Code	3DX-en-XAR-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Fundamental
Audience	All users who want to create Marketing Experiences like BT Client base & their agencies. The direct users are professionals like 3D Artists, Software Developer, Engineers, Designers and Marketing Manager.
Description	This course will teach you the basics of the Marketing Experience Artist Role and the involved Application Creative Experience.
Objectives	Upon completion of this course you will be able to: - Know the purpose, basics and dependencies of the Marketing Experience Artist Role - Stage and properly highlight the product and its values with Lights, Ambiances and other elements - Animate the product with Behaviors and Natural Language - Build a user interface and interact with the product and scene
Prerequisites	Students attending this course should have taken the Gateway to the 3DEXPERIENCE Platform course and should be familiar with the Windows Operating System.
Available Online	Yes

CATIA
Electrical and Fluids Engineering

3DEXPERIENCE Assembly Design Added Exercises

Course Code	CAT-en-ASD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with exercises for additional practice on the 3DEXPERIENCE Assembly Design app. The exercises have been created based on Industry practices. You will practice creating assembly structure, positioning components, constraining components using engineering connections and modifying parts in assembly context.
Objectives	Upon completion of this course you will be able to: - Practice your Assembly Design skills using selected scenarios - Apply the recommended methodology in various scenarios
Prerequisites	Students attending this course should be familiar with Part Design and Assembly Design.
Available Online	Yes

3DEXPERIENCE Mechanical Design Fundamentals

Course Code	CAT-en-3DFS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

3DEXPERIENCE Mechanical Design Fundamentals

Available Online	Yes

3DEXPERIENCE Part Design Added Exercises

Course Code	CAT-en-PDG-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	13 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with an exercise database for additional practice on the3DEXPERIENCE Part Design app. The exercises have been arranged in increasing order of difficulty. The fundamental exercises will check and refresh your basic Part Design skills before you move on to more complex topics. The advanced exercises will make you practice the recommended design methodologies using realistic parts.
Objectives	Apply your Mechanical skills in selected scenarios. - Employ the recommended methodology in various situations and efficiently use the Mechanical workbenches.
Prerequisites	Students attending this course must have completed the 3DEXPERIENCE Part Design and 3DEXPERIENCE Knowledge Fundamentals courses.
Available Online	Yes

3DEXPERIENCE Surface Design Added Exercises

Course Code	CAT-en-GS1-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Exercise
Audience	Mechanical Surface Designers
Description	This course provides you with an exercise database for additional practice on 3DEXPERIENCE Surface Design. The exercises have been created based on Industry practices. You will get to practice skills such as creating wireframes and surfaces, creating surfacic shells and solid parts, and working with multiple parts that are referencing a common part.
Objectives	These exercises will allow you to put your Shape skills into practice on selected scenarios. - You will apply the recommended methodology in various situations. - You will enhance your understanding and usage of the Shape apps.
Prerequisites	Students attending this course should be familiar with 3DEXPERIENCE Surface Design.
Available Online	Yes

CATIA 2D Layout for 3D Design Essentials

Course Code	CAT-en-LO1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course you will learn how to create 2D layout views in a 3D model and use them to design the part in the 3D environment.
Objectives	Upon completion of this course you will be able to: - Create 2D layout views in a 3D environment - Export 2D geometry into a 3D environment - Create drawings using the 2D layout views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Part and Assembly Design.
Available Online	Yes

CATIA Assembly Design Expert

Course Code	CAT-en-ASD-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex assembly modeling techniques. You will learn how to design a product architecture and manage complex assembly structures. You will also learn how to use advanced features to design parts within an assembly environment and how to analyze interferences.
Objectives	Upon completion of this course you will be able to: - Analyze interferences - Analyze component links and relations - Design complex products - Design new parts within a product - Manage complex product structures
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design and Assembly Design fundamentals.
Available Online	Yes

CATIA Assembly Design Fundamentals (ASD)

Course Code	CAT-en-ASD-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create a simple product structure and how to add components and position them correctly. You will also learn how to analyze the weight distribution, create new component revisions and replace components.
Objectives	Upon completion of this course you will be able to: - Create a new product and add components - Position components within a product - Modify a product structure - Analyze weight distribution - Replace components
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design in CATIA.
Available Online	Yes

CATIA Bent Part Design Essentials

Course Code	CAT-en-SMB-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designer and Sheetmetal Designer
Description	This course will teach you how to use the Bent Part Design app to create and modify a sheetmetal part. You will learn how to define the sheetmetal parameters and create features such as walls, bends, cutouts and corners. You will also learn different techniques for multi-selecting the objects and constraining the parts.
Objectives	Upon completion of this course you will be able to: - Define and modify the sheetmetal parameters - Create a sheetmetal part using the wall and bend features - Manage the folded and unfolded views of parts - Create cutouts, chamfers and corners - Constrain the parts
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Drafting Expert

Course Code	CAT-en-GDR-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Draftsmen
Description	This course will teach you how to manage drawing sheets and views in the Drafting app. You will also learn how to use advanced tools to dress-up, annotate views.
Objectives	Upon completion of this course you will be able to: - Finalize the drawing sheet - Work with large assemblies - Customize the drafting app - Perform administrative tasks - Add Bill of Material
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Drafting Fundamentals

Course Code	CAT-en-GDR-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Draftsmen
Description	This course will teach you how to create drawings using the Drafting app. You will learn how to create projection views and section views of a 3D model or an assembly and add the required dimensions.
Objectives	Create simple projection views and section views of 3D parts and assemblies - Position the views on a drawing sheet - Add dimensions and annotations to the views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Electrical 3D Design Essentials

Course Code	CAT-en-EHI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Electrical Engineers new to Electrical Physical System Design using the 3DEXPERIENCE platform.
Description	This course will teach you how to create electrical geometry in the 3DEXPERIENCE platform and thereby help you in designing the electrical physical systems. You will work with electrical catalogs to place the components from electrical libraries. You will learn the routing of branches for creating electrical branch geometries, managing the electrical geometry content, and routing conductors through the electrical geometry. You will also learn the 3D Master Approach of annotating the electrical physical system.
Objectives	Upon completion of this course you will be able to: - Create and use an Electrical Library using Data Setup - Create an Electrical Geometry - Route Conductors through the Electrical Geometry - Annotate the Electrical Physical System using the 3D Master Approach
Prerequisites	- Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. - They should also be familiar with Part Design and should know how to use an electrical catalog.

CATIA Electrical 3D Design Essentials

Available Online	Yes

CATIA Electrical Systems Design Essentials

Course Code	CAT-en-ELE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Electrical Engineers and Electrical Schematics Designers new to Electrical System Design using the 3DEXPERIENCE platform.
Description	This course will teach you to create and manage various elements of an electrical system diagram in the 3DEXPERIENCE platform. This will help you in designing the electrical systems. You will work with catalogs to place the electrical 2D component symbols and route the cables from the electrical cable libraries. It will also teach you how to check and analyze the electrical system connectivity and generate reports.
Objectives	Upon completion of this course you will be able to: - Place electrical component symbols - Route cables - Update component properties - Adjust network layout - Annotate cables - Check electrical systems connectivity - Generate reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Functional and Logical Design Fundamentals.
Available Online	Yes

CATIA Engineering Templates Reuse Essentials

Course Code	CAT-en-KT1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	30 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course, you will learn how to create customized features by reusing the power copy and user feature.
Objectives	Upon completion of this course you will be able to: - Create customized features using templates.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Functional and Logical Design Fundamentals

Course Code	CAT-en-FLE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	System Architecture Designers
Description	This course will teach you the basic concepts of systems engineering and the RFLP approach. You will learn how to create the Requirement, Functional architecture and Logical architecture. You will learn to add 3D representation for system components. You will also learn how to create and edit the implement relations.
Objectives	Upon completion of this course you will be able to: - Explain systems engineering and the RFLP approach - Define and formalize data using the Functional & Logical Design app - Create implement relations between different RFLP objects - Insert the physical representation of the system - Use the search and navigation tools for the RFLP objects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Functional Plastic Parts Essentials

Course Code	CAT-en-FMP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Plastic Part Designers and Molded Part Designers
Description	This course will teach you how to use the Functional Plastic Parts app to create molded parts. You will also learn how to create a core and a cavity using styling data. You will be able to create a detailed design by adding holes, stiffening ribs, bosses and additional fixtures. You will also be able to modify the design and complete the final part with additional draft and fillet features.
Objectives	Upon completion of this course you will be able to: - Create a molded plastic part - Add holes and protected areas - Add ribs and bosses
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the Part Design app.
Available Online	Yes

CATIA Generative Wireframe and Surface Essentials

Course Code	CAT-en-GS1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Wireframe and Surface app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - Create curves and improve the quality of the imported wireframes - Create surfaces based on the wireframe geometries - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Mechanical Design Expert	
Course Code	CAT-en-3DE-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex modeling techniques. You will use advanced sketch-based and surface-based features to design parts and learn how to improve productivity by reusing existing features. You will also see how to design a product architecture and manage complex assembly structures, using advanced features to design parts within an assembly environment. Finally, you will learn how to analyze interferences and then create an assembly layout using advanced tools to dress-up and annotate the final drawing.
Objectives	Upon completion of this course you will be able to: - Create and manage complex parts - Create fully parameterized models - Create re-usable features - Analyze interferences, component links and relations - Manage complex product structures - Design new parts within a product - Create large assembly layouts with tables and bill of materials
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course

CATIA Mechanical Design Expert	23
	and in addition, they should be familiar with the Mechanical Design Fundamentals.
Available Online	Yes

CATIA Mechanical Design Fundamentals

Course Code	CAT-en-3DF-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Upon completion of this course you will be able to: - Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Mechanical Design Fundamentals | 25 / 422

Available Online	Yes

CATIA Mechanical Systems Design Essentials

Course Code	CAT-en-KIM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create the architecture of a mechanism using simple wireframe elements and then complete the mechanism by adding 3D representations. You will also learn how to create a more complex mechanism using existing mechanisms, and finally how to animate the result.
Objectives	Upon completion of this course you will be able to: - Create a new mechanism - Manage the mechanism behavior - Include alternative representations to complete the mechanism - Create a new macro mechanism from existing sub-mechanisms - Animate the mechanism
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with the Assembly Design app.
Available Online	Yes

CATIA Natural Assembly Essentials

Course Code	CAT-en-LCP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	This course will teach you how to create and manage product structures. You will explore a product and modify its structure by adding new products and exploding existing products. You will then scan the structure to activate a working product level, search for and add existing parts and use constraints to position the parts. Finally, you will create a new sub-product from a components list and use it to complete the product.
Objectives	Upon completion of this course you will be able to: - Explore a product and modify its structure using Natural Assembly - Select the product levels using the Ladder functionality - Search for a product and insert it in an existing assembly - Position the parts using constraints - Create a new sub-product from a component's list and use it to complete the product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Natural Assembly Essentials

Available Online	Yes

CATIA Natural Shape Essentials

Course Code	CAT-en-LSP-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Conceptual Designers, Stylists, Simulation and Manufacturing Engineers
Description	This course will introduce you to the CATIA Natural Shape app and its unique working environment. You will learn how to use the app to conceptualize, create and modify mechanical parts and shapes. The course features short-duration demos followed by exercises which will allow you to practice. You will also learn the related theory, tips and recommendations while performing the exercises.
Objectives	Upon completion of this course you will be able to: - Create a conceptual design directly in 3D - Use the hybrid design environment to conceptualize your designs - Work on the structure to create the 3D parts - Navigate through the structure and position the parts - Reuse the existing designs in the 3D models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Part Design Expert

Course Code	CAT-en-PDG-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Advanced
Audience	Mechanical and Sheet Metal Designers
Description	This course will introduce you to complex 3D modeling techniques, using advanced sketch-based and surface-based features. You will learn how to manage complex part structures and how to improve productivity by reusing existing features. Finally, you will learn how to use parameters and tables to drive the design of a model.
Objectives	Design parts with complex geometries - Create and manage robust part structures - Create fully parameterized models - Create re-usable features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design fundamentals.
Available Online	Yes

CATIA Part Design Fundamentals

Course Code	CAT-en-PDG-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create a 3D model using the CATIA Part Design app. You will learn how to use different feature-based tools to build a 3D model. You will also learn how to add parameters, then review, measure and modify a model.
Objectives	Upon completion of this course you will be able to: - Create new parts - Create and constrain 2D sketches - Complete a 3D model using basic features - Parameterize a model - Review and measure a model - Reuse existing features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Piping and Tubing 3D Design Essentials

Course Code	CAT-en-PIP-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Piping or Tubing Designers
Description	This course will teach you how to route a pipe or a tube, and place the piping components. You will learn how to detail the design and modify the network. You will also learn how to validate the design and prepare it for manufacturing. The course also features exercises that enable you to practice creating a piping system design.
Objectives	Upon completion of this course you will be able to: - Route straight pipes or tubes - Position piping or tubing parts - Adjust the design of a piping or a tubing network - Validate the piping and tubing design - Prepare the piping and tubing design for manufacturing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Piping and Tubing Setup Essentials

Course Code	CAT-en-PTS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Fluid Systems Solution Administrators
Description	This course will teach you how to set up fluid systems resources and create piping components. You will learn how to manage component catalogs, design validation rules, and global naming conventions. You will also learn how to customize the generative view style file for drawings and standards for P&ID.
Objectives	Upon completion of this course you will be able to: - Create and manage resources for fluid systems design - Build equipment, supports, and components - Reuse the piping standard data for design setup - Create and manage component catalogs - Define the global naming conventions - Create the checks and rules for design validation - Create templates for generating reports - Customize the drafting standards and settings - Define symbols and annotations for piping and instrumentation diagrams
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Piping and Tubing Systems Design Essentials

Course Code	CAT-en-PLE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Piping or Tubing Schematic Designers
Description	This course will teach you how to create piping and instrumentation diagrams (P&ID). You will learn how to place an equipment in the diagram with multiple graphic representations. You will also learn how to connect them and place in-line components. Finally, you will learn how to add annotations, review the design and make the necessary modification.
Objectives	Upon completion of this course you will be able to: - Route pipe or tube lines - Position piping or tubing parts and equipment - Adjust the design of a piping or a tubing network - Validate the piping and tubing design - Prepare the piping and tubing design for manufacturing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Drafting.
Available Online	Yes

CATIA Quality Rules Reuse Essentials

Course Code	CAT-en-KE1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	5 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will show you how to share corporate knowledge stored in the rule bases and leverage it across the company to ensure design compliance with the established standards. You will also learn to create reports and manage their template.
Objectives	Upon completion of this course you will be able to: - Automate the design modifications - Analyze and create reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

Gateway to the 3DEXPERIENCE platform	
Course Code	CAT-en-GTX-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Materials	English , French , German , Japanese
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course is the entry point to the 3DEXPERIENCE platform. Its purpose is to empower users of the platform by teaching them how to access their work environment, navigate, search, work on their data, use and manage their dashboard and collaborate with their peers thanks to communities. This course will teach you the new interface and functionalities of the 3DEXPERIENCE platform. You will learn how to connect to the platform, manage your projects, search documents and share content along with knowledge or skills with other users.
Objectives	Upon completion of this course you will be able to: - Understand the 3DEXPERIENCE interface - Connect to the 3DEXPERIENCE platform - Access your Dashboard - Use the 6WTags for searching content - Share various documents with other users through - 3DSpace - Use standard menus and commands - Explain the functionalities of various apps in the - 3DEXPERIENCE platform - Import new data and export it as 3DXML files - Search for a 3D data using different methods - Explore and open 3D data - Manipulate the tree

Gateway to the 3DEXPERIENCE platform		37 / 422
	- Filter data	
Prerequisites	There are no prerequisites for this course	
Available Online	Yes	

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Course Code	CAT-en-3DMTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

Transition to the 3DEXPERIENCE platform for Mechanical Designers

	They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Course Code	CAT-en-3DMT-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Upon completion of this course, you will be able to: - Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product - Design parts in context - Create assembly features and catalogs - Analyze the assemblies
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

	They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

What's New for Electrical 3D Systems Designers

Course Code	CAT-en-WELG-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	9.5 hours
Course Material	English
Level	Update
Audience	Electrical 3D Systems Designers
Description	This course introduces you to the enhancements and new functionalities in the Electrical 3D Systems Designers role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Electrical 3D Systems Designers role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Electrical 3D Systems Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Electrical Designers

Course Code	CAT-en-WELD-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Update
Audience	Electrical Designers
Description	This course introduces you to the enhancements and new functionalities in the Electrical Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Electrical Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Electrical Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Fluidic 3D Systems Designers

Course Code	CAT-en-WFLG-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	11 hours
Course Material	English
Level	Update
Audience	Fluid System Designers
Description	This course introduces you to the enhancements and new functionalities in the Fluid System Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Fluid System Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Fluid System Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Systems Schematic Designers

Course Code	CAT-en-WSEF-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Update
Audience	Systems Schematic Designers
Description	This course introduces you to the enhancements and new functionalities in the Systems Schematic Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Systems Schematic Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Systems Schematic Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Tubing Designers

Course Code	CAT-en-WPTB-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	3.5 hours
Course Material	English
Level	Update
Audience	Tubing Designers
Description	This course introduces you to the enhancements and new functionalities in the Tubing Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Tubing Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Tubing Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

CATIA
Mechanical Engineering

3DEXPERIENCE Assembly Design Added Exercises

Course Code	CAT-en-ASD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with exercises for additional practice on the 3DEXPERIENCE Assembly Design app. The exercises have been created based on Industry practices. You will practice creating assembly structure, positioning components, constraining components using engineering connections and modifying parts in assembly context.
Objectives	Upon completion of this course you will be able to: - Practice your Assembly Design skills using selected scenarios - Apply the recommended methodology in various scenarios
Prerequisites	Students attending this course should be familiar with Part Design and Assembly Design.
Available Online	Yes

3DEXPERIENCE Generative Shape Design Essentials

Course Code	CAT-en-GSD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	24 hours
Course Materials	Chinese , English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Shape Design app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - - Create curves and improve the quality of the imported wireframes - - Create surfaces based on the wireframe geometries - - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

3DEXPERIENCE Mechanical Design Fundamentals

Course Code	CAT-en-3DFS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

3DEXPERIENCE Mechanical Design Fundamentals

Available Online	Yes

3DEXPERIENCE Part Design Added Exercises

Course Code	CAT-en-PDG-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	13 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with an exercise database for additional practice on the3DEXPERIENCE Part Design app. The exercises have been arranged in increasing order of difficulty. The fundamental exercises will check and refresh your basic Part Design skills before you move on to more complex topics. The advanced exercises will make you practice the recommended design methodologies using realistic parts.
Objectives	Apply your Mechanical skills in selected scenarios. - Employ the recommended methodology in various situations and efficiently use the Mechanical workbenches.
Prerequisites	Students attending this course must have completed the 3DEXPERIENCE Part Design and 3DEXPERIENCE Knowledge Fundamentals courses.
Available Online	Yes

3DEXPERIENCE Surface Design Added Exercises

Course Code	CAT-en-GS1-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Exercise
Audience	Mechanical Surface Designers
Description	This course provides you with an exercise database for additional practice on 3DEXPERIENCE Surface Design. The exercises have been created based on Industry practices. You will get to practice skills such as creating wireframes and surfaces, creating surfacic shells and solid parts, and working with multiple parts that are referencing a common part.
Objectives	These exercises will allow you to put your Shape skills into practice on selected scenarios. - You will apply the recommended methodology in various situations. - You will enhance your understanding and usage of the Shape apps.
Prerequisites	Students attending this course should be familiar with 3DEXPERIENCE Surface Design.
Available Online	Yes

3DEXPERIENCE Surface Design Expert Added Exercises

Course Code	CAT-en-GSD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers and Surface Designers
Description	This course provides you with an extensive database of exercises for additional practice on advanced topics of Surface Design. The exercises have been created based on the Industry practices.
Objectives	Upon completion of this course you will be able to: - Create wireframe features using the existing curves and surfaces - Create advanced and parameterized swept surfaces - Perform advanced surface analysis and gap correction - Create advanced blend features - Improve the quality and stability of created geometries
Prerequisites	Students attending this course should know the basic and advanced features of Surface Design.
Available Online	Yes

Basic Knowledge of CATIA Functional Generative Design Essentials

Course Code	CAT-en-BKGDE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Mechanical Designers or Structure Engineers
Description	The course will teach you how can use 3DEXPERIENCE platform to create 3D parts and surfaces. You will also learn about basic concepts of structural optimization.
Objectives	Upon completion of this course you will be able to: - Understand basics of simulation and structural optimization - Work on the 3DEXPERIENCE platform - Design 3D parts using basic features - Create and modify surfaces
Prerequisites	Students attending this course should be familiar with the basics of mechanical design, simulation and structural optimization.
Available Online	Yes

CATIA 2D Layout for 3D Design Essentials

Course Code	CAT-en-LO1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course you will learn how to create 2D layout views in a 3D model and use them to design the part in the 3D environment.
Objectives	Upon completion of this course you will be able to: - Create 2D layout views in a 3D environment - Export 2D geometry into a 3D environment - Create drawings using the 2D layout views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Part and Assembly Design.
Available Online	Yes

CATIA 3D Annotation Insight Essentials

Course Code	CAT-en-LFT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Design, Quality and other such departments where interrogating and annotating the 3D model is a frequent or occasional requirement.
Description	This course teaches how to use the 3D Annotation Insight app to review and filter 3D annotations information contained within part and assembly documents. Students will learn how to hide / show annotations and captures, use the dimensioning and tolerancing annotations to enhance understanding and improve the decision making.
Objectives	Upon completion of this course you will be able to: - Access and visualize the view, capture and annotation review features - Query and filter 3D annotations - Show/Hide individual as well as all annotations of a given type - Display FTA captures - Remove the FTA clipping plane of a capture - Filter 3D annotations
Prerequisites	Students attending this course should have taken the Gateway to the 3DEXPERIENCE platform course and should be familiar with the Windows Operating System.
Available Online	Yes

CATIA 3D Printing Preparation Essentials

Course Code	CAT-en-TLE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Virtual and Physical Prototypers
Description	This course will teach you how to create an output for 3D printing. You will also learn how to improve the characteristics of a mesh.
Objectives	Upon completion of this course you will be able to: - Import a cloud of points - Prepare a mesh for 3D Printing - Create an output for 3D Printing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA 3D Tolerancing and Annotation Essentials

Course Code	CAT-en-FTA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	3D Master Designers
Description	This course will teach you how to annotate a 3D part. You will learn how to create annotation planes and how to add and manage 3D annotations on these planes. You will also learn how to create 3D views and use them to create 2D drawing views.
Objectives	Upon completion of this course you will be able to: - - Add 3D annotations to a part - - Manage and position the annotations - - Manage the 3D geometry associated to the annotations
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Knowledgeware and basic CATIA Solid and Surface Design.
Available Online	Yes

CATIA Assembly Design Expert	
Course Code	CAT-en-ASD-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex assembly modeling techniques. You will learn how to design a product architecture and manage complex assembly structures. You will also learn how to use advanced features to design parts within an assembly environment and how to analyze interferences.
Objectives	Upon completion of this course you will be able to: - Analyze interferences - Analyze component links and relations - Design complex products - Design new parts within a product - Manage complex product structures
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design and Assembly Design fundamentals.
Available Online	Yes

CATIA Assembly Design Fundamentals (ASD)

Course Code	CAT-en-ASD-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create a simple product structure and how to add components and position them correctly. You will also learn how to analyze the weight distribution, create new component revisions and replace components.
Objectives	Upon completion of this course you will be able to: - Create a new product and add components - Position components within a product - Modify a product structure - Analyze weight distribution - Replace components
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design in CATIA.
Available Online	Yes

CATIA Bent Part Design Essentials

Course Code	CAT-en-SMB-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designer and Sheetmetal Designer
Description	This course will teach you how to use the Bent Part Design app to create and modify a sheetmetal part. You will learn how to define the sheetmetal parameters and create features such as walls, bends, cutouts and corners. You will also learn different techniques for multi-selecting the objects and constraining the parts.
Objectives	Upon completion of this course you will be able to: - Define and modify the sheetmetal parameters - Create a sheetmetal part using the wall and bend features - Manage the folded and unfolded views of parts - Create cutouts, chamfers and corners - Constrain the parts
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Digitized Shape Preparation Essentials

Course Code	CAT-en-DSE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Transportation Designers
Description	This course will teach you how to create a cloud of points and then process those points. You will also learn how to mesh the clouds, improve the mesh characteristics, align the cloud of points and perform deviation analysis.
Objectives	Upon completion of this course, you will be able to: - Create a cloud of points - Process the points of a cloud - Mesh the clouds - Improve the mesh characteristics - Align the cloud of points - Perform deviation analysis
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course
Available Online	Yes

CATIA Drafting Expert

Course Code	CAT-en-GDR-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Draftsmen
Description	This course will teach you how to manage drawing sheets and views in the Drafting app. You will also learn how to use advanced tools to dress-up, annotate views.
Objectives	Upon completion of this course you will be able to: - Finalize the drawing sheet - Work with large assemblies - Customize the drafting app - Perform administrative tasks - Add Bill of Material
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Drafting Fundamentals

Course Code	CAT-en-GDR-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Draftsmen
Description	This course will teach you how to create drawings using the Drafting app. You will learn how to create projection views and section views of a 3D model or an assembly and add the required dimensions.
Objectives	Create simple projection views and section views of 3D parts and assemblies - Position the views on a drawing sheet - Add dimensions and annotations to the views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Engineering Templates Reuse Essentials

Course Code	CAT-en-KT1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	30 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course, you will learn how to create customized features by reusing the power copy and user feature.
Objectives	Upon completion of this course you will be able to: - Create customized features using templates.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA FreeStyle Shape Design Essentials

Course Code	CAT-en-FSS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Industrial Designers and Creative Designers
Description	This course will teach you how to create flawless, styled shapes from scratch using 3D free-form curves and surfaces or using digitized data. You will also learn how to analyze and enhance the quality of existing curves and surfaces.
Objectives	Upon completion of this course you will be able to: - - Create styled shapes using digitized data - Create surfaces using the curve-based and the surface-based approaches - Analyze and enhance the quality of curves and surfaces
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Generative Surface Design in CATIA.
Available Online	Yes

CATIA Functional Generative Design Essentials

Course Code	CAT-en-GDE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	36 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Mechanical Designers or Structure Engineers
Description	The CATIA Functional Generative Design app provides an integrated design environment where the structural simulation (with SIMULIA), topology optimization (using TOSCA solver) and shape modeling are combined together in the same software. The various capabilities of 3DEXPERIENCE platform allows you to comprehensively refine concept shapes of assemblies, validate them and reconstruct them collaboratively and in-context by other disciplines for conventional or additive manufacturing. The course will teach you how to define functional specifications, analysis inputs, optimization target and constraints. You will also learn how to generate organic concept shapes automatically, validate their structural behavior and compare them to select the best possible solution. The intuitive workflow allows you to easily design components for additive layer manufacturing (ALM) along with more traditional processes such as milling, casting and forging.
Objectives	Upon completion of this course you will be able to: - Capture a set of functional specifications for conceptual exploration - Generate conceptual shapes on target and constraints - Manage concept variants and perform trade-off study - Design and validate detailed design for additive layer manufacturing

CATIA Functional Generative Design Essentials

	- Design and validate detailed design for casting
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and the Basic Knowledge of CATIA Functional Generative Design Essentials courses. They must have worked on the CATIA Part Design Essentials, Natural Shape and Imagine and Shape apps.
Available Online	Yes

CATIA Functional Plastic Parts Essentials

Course Code	CAT-en-FMP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Plastic Part Designers and Molded Part Designers
Description	This course will teach you how to use the Functional Plastic Parts app to create molded parts. You will also learn how to create a core and a cavity using styling data. You will be able to create a detailed design by adding holes, stiffening ribs, bosses and additional fixtures. You will also be able to modify the design and complete the final part with additional draft and fillet features.
Objectives	Upon completion of this course you will be able to: - Create a molded plastic part - Add holes and protected areas - Add ribs and bosses
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the Part Design app.
Available Online	Yes

CATIA Generative Shape Develop Essentials

Course Code	CAT-en-DL1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use CATIA Generative Shape Develop app functionalities to create unfolded surfaces from a ruled surface. You will learn how to develop wires and points onto a revolution surface.
Objectives	Upon completion of this course, you will be able to: - Create unfolded surfaces from a ruled surface using the CATIA Generative Shape Develop app functionalities - Develop wires and points onto a revolution surface
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Surface Design in CATIA.
Available Online	Yes

CATIA Generative Wireframe and Surface Essentials

Course Code	CAT-en-GS1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Wireframe and Surface app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - Create curves and improve the quality of the imported wireframes - Create surfaces based on the wireframe geometries - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Imagine and Shape Essentials (IMA)

Course Code	CAT-en-IMA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Shape Designers, Product Stylists and Industrial Designers
Description	This course will teach you how to use the CATIA Imagine & Shape app to create, modify and improve product shapes and styles. You will learn how to use the Sketch Tracer app to import stylist's images in the 3DEXPERIENCE platform. You will also learn how to create an environment for a designed model and render it.
Objectives	Upon completion of this course you will be able to: - Create subdivision surfaces using tools specific to the Imagine and Shape app - Modify the style surfaces using Generative Shape Design tools - Create the required environment around a model - Apply materials to the created models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of CATIA Mechanical and Shape.
Available Online	Yes

CATIA Mechanical Design Expert

Course Code	CAT-en-3DE-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex modeling techniques. You will use advanced sketch-based and surface-based features to design parts and learn how to improve productivity by reusing existing features. You will also see how to design a product architecture and manage complex assembly structures, using advanced features to design parts within an assembly environment. Finally, you will learn how to analyze interferences and then create an assembly layout using advanced tools to dress-up and annotate the final drawing.
Objectives	Upon completion of this course you will be able to: - Create and manage complex parts - Create fully parameterized models - Create re-usable features - Analyze interferences, component links and relations - Manage complex product structures - Design new parts within a product - Create large assembly layouts with tables and bill of materials
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course

CATIA Mechanical Design Expert	75 / 422
	and in addition, they should be familiar with the Mechanical Design Fundamentals.
Available Online	Yes

CATIA Mechanical Design Fundamentals

Course Code	CAT-en-3DF-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Upon completion of this course you will be able to: - Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Mechanical Design Fundamentals

Available Online	Yes

CATIA Mechanical Systems Design Essentials

Course Code	CAT-en-KIM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create the architecture of a mechanism using simple wireframe elements and then complete the mechanism by adding 3D representations. You will also learn how to create a more complex mechanism using existing mechanisms, and finally how to animate the result.
Objectives	Upon completion of this course you will be able to: - Create a new mechanism - Manage the mechanism behavior - Include alternative representations to complete the mechanism - Create a new macro mechanism from existing sub-mechanisms - Animate the mechanism
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with the Assembly Design app.
Available Online	Yes

CATIA Mechanical Systems Experience

Course Code	CAT-en-KIN-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Design Engineers
Description	This course will teach you how to define a behavior by manually recording an animation and by using laws. You will also learn how to include the analysis of measurements and accelerations. Furthermore, you will learn how to generate traces, swept volumes and snapshots which can be used while reviewing the simulation results.
Objectives	Upon completion of this course you will be able to: - Create a scenario manually or by using laws - Include measurement and interference analyses - Generate results - Create snapshots for a review - Export the final simulation
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with Mechanical Systems Design in CATIA.
Available Online	Yes

CATIA Natural Assembly Essentials

Course Code	CAT-en-LCP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	This course will teach you how to create and manage product structures. You will explore a product and modify its structure by adding new products and exploding existing products. You will then scan the structure to activate a working product level, search for and add existing parts and use constraints to position the parts. Finally, you will create a new sub-product from a components list and use it to complete the product.
Objectives	Upon completion of this course you will be able to: - Explore a product and modify its structure using Natural Assembly - Select the product levels using the Ladder functionality - Search for a product and insert it in an existing assembly - Position the parts using constraints - Create a new sub-product from a component's list and use it to complete the product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Natural Assembly Essentials

Available Online	Yes

CATIA Natural Shape Essentials

Course Code	CAT-en-LSP-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Conceptual Designers, Stylists, Simulation and Manufacturing Engineers
Description	This course will introduce you to the CATIA Natural Shape app and its unique working environment. You will learn how to use the app to conceptualize, create and modify mechanical parts and shapes. The course features short-duration demos followed by exercises which will allow you to practice. You will also learn the related theory, tips and recommendations while performing the exercises.
Objectives	Upon completion of this course you will be able to: - Create a conceptual design directly in 3D - Use the hybrid design environment to conceptualize your designs - Work on the structure to create the 3D parts - Navigate through the structure and position the parts - Reuse the existing designs in the 3D models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Part Design Expert

Course Code	CAT-en-PDG-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Advanced
Audience	Mechanical and Sheet Metal Designers
Description	This course will introduce you to complex 3D modeling techniques, using advanced sketch-based and surface-based features. You will learn how to manage complex part structures and how to improve productivity by reusing existing features. Finally, you will learn how to use parameters and tables to drive the design of a model.
Objectives	Design parts with complex geometries - Create and manage robust part structures - Create fully parameterized models - Create re-usable features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design fundamentals.
Available Online	Yes

CATIA Part Design Fundamentals

Course Code	CAT-en-PDG-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create a 3D model using the CATIA Part Design app. You will learn how to use different feature-based tools to build a 3D model. You will also learn how to add parameters, then review, measure and modify a model.
Objectives	Upon completion of this course you will be able to: - Create new parts - Create and constrain 2D sketches - Complete a 3D model using basic features - Parameterize a model - Review and measure a model - Reuse existing features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Piping and Tubing 3D Design Essentials

Course Code	CAT-en-PIP-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Piping or Tubing Designers
Description	This course will teach you how to route a pipe or a tube, and place the piping components. You will learn how to detail the design and modify the network. You will also learn how to validate the design and prepare it for manufacturing. The course also features exercises that enable you to practice creating a piping system design.
Objectives	Upon completion of this course you will be able to: - Route straight pipes or tubes - Position piping or tubing parts - Adjust the design of a piping or a tubing network - Validate the piping and tubing design - Prepare the piping and tubing design for manufacturing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Piping and Tubing Setup Essentials

Course Code	CAT-en-PTS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Fluid Systems Solution Administrators
Description	This course will teach you how to set up fluid systems resources and create piping components. You will learn how to manage component catalogs, design validation rules, and global naming conventions. You will also learn how to customize the generative view style file for drawings and standards for P&ID.
Objectives	Upon completion of this course you will be able to: - Create and manage resources for fluid systems design - Build equipment, supports, and components - Reuse the piping standard data for design setup - Create and manage component catalogs - Define the global naming conventions - Create the checks and rules for design validation - Create templates for generating reports - Customize the drafting standards and settings - Define symbols and annotations for piping and instrumentation diagrams
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Quality Rules Reuse Essentials

Course Code	CAT-en-KE1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	5 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will show you how to share corporate knowledge stored in the rule bases and leverage it across the company to ensure design compliance with the established standards. You will also learn to create reports and manage their template.
Objectives	Upon completion of this course you will be able to: - Automate the design modifications - Analyze and create reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Shape Healing Essentials

Course Code	CAT-en-HA1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Fundamental
Audience	Tooling Designers, Mechanical Designers and Surface Designers.
Description	This course introduces you to the user interface and basic tools of CATIA Shape Healing app. You will learn to analyze and repair the imported data (IGES 3D or CATIA V4 files). You will also learn how to compare two versions of a part and to customize the workbench, in order to suit your needs.
Objectives	Upon completion of this course, you will be able to: - Analyze the imported data - Repair the imported data - Compare two versions of a part - Customize the app
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Surface Design.
Available Online	Yes

CATIA Sheet Metal Design Essentials

Course Code	CAT-en-SMD-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Sheet Metal Designer
Description	This course will teach you how to create a sheet metal part using standard wall, bend and stamping features. You will see how user features can be incorporated into the design and how to use both standard and user-defined materials. Finally you will learn how to create a flat pattern and produce a detailed, annotated drawing.
Objectives	Upon completion of this course you will be able to: - Create a sheet metal part using wall and bend features - Manage folded and unfolded views - Use pre-defined sheet metal parameters - Create stamped features - Create duplicating features and use the multi-body methodology - Creating drawings of sheet metal parts - Export a finished flat pattern
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design app.
Available Online	Yes

CATIA Virtual to Real Shape Morphing Essentials

Course Code	CAT-en-RSO-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Reverse Shape Optimizers
Description	This course will teach you how to create a deformation law with the 3DEXPERIENCE platform. You will learn how to use the deformation law in Digitized Morphing for curve and solids. You will learn about optimization of a vector field and also how to filter a vector field to check quality of vectors.
Objectives	Upon completion of this course you will be able to: - Morph surfaces with a computed deformation field - Optimize vectors field from deviation analysis - Filter vectors field to check the quality of the vectors
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should be familiar with the fundamentals of CATIA surface design.
Available Online	Yes

CATIA Weld Design Essentials

Course Code	CAT-en-WDG-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers and Structural Designers
Description	This course will teach you how to create a welded assembly. You will learn how to join parts using appropriate weld features and how to generate associative weld drawings and weld reports. This course will teach you how to define the welding resource in the Data Setup app and use it to create welds.
Objectives	Upon completion of this course you will be able to: - Define the welding resource - Create and manage welded assemblies - Generate weld reports - Create welding drawings
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Assembly Design.
Available Online	Yes

Gateway to the 3DEXPERIENCE platform

Course Code	CAT-en-GTX-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course is the entry point to the 3DEXPERIENCE platform. Its purpose is to teach you how to connect to the platform, access your work environment, navigate, search, work on the data, manage your projects, manage the dashboard, collaborate with your peers and share content in communities. You will also learn about the latest modifications to the user interface and the new functionalities that are added to the 3DEXPERIENCE platform.
Objectives	Upon completion of this course, you will be able to: - Connect to the 3DEXPERIENCE platform and use the user interface - Access your Dashboard - Use the 6WTags for searching content - Share various documents with other users through 3DSpace - Use standard menus and commands - Explain the functionalities of various apps in the 3DEXPERIENCE platform - Import new data and export it as 3DXML files - Search for a 3D data using different methods - Explore and open 3D data - Manipulate the tree - Filter data

Gateway to the 3DEXPERIENCE platform	
Prerequisites	There are no prerequisites for this course.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Course Code	CAT-en-3DMTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

Transition to the 3DEXPERIENCE platform for Mechanical Designers

	They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Course Code	CAT-en-3DMT-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Upon completion of this course, you will be able to: - Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product - Design parts in context - Create assembly features and catalogs - Analyze the assemblies

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Surface Designers

Course Code	CAT-en-3DST-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Designers who need to work with styled parts.
Description	This course addresses the needs of Surface Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design and Surface Design.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Surface Designers

Course Code	CAT-en-3DSTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with styled parts.
Description	This course addresses the needs of Surface Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Create a new part version - Replace a part and update a product - Replay master exercise based on shape functionalities
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design and Surface Design.
Available Online	Yes

What's New for 3DMaster Conceptual Designers

Course Code	CAT-en-WM3C-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6.5 hours
Course Material	English
Level	Update
Audience	3DMaster Conceptual Designers
Description	This course introduces you to the enhancements and new functionalities in the 3DMaster Conceptual Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the 3DMaster Conceptual Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the 3DMaster Conceptual Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for 3DMaster Designers

Course Code	CAT-en-WM3D-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	3DMaster Designers
Description	This course introduces you to the enhancements and new functionalities in the 3DMaster Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the 3DMaster Designers role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the 3DMaster Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Function Driven Generative Designers

Course Code	CAT-en-WGDE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Update
Audience	Function Driven Generative Designers
Description	This course introduces you to the enhancements and new functionalities in the Function Driven Generative Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Function Driven Generative Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Function Driven Generative Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Machine and Equipment Designers

Course Code	CAT-en-WMQD-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	11 hours
Course Material	English
Level	Update
Audience	Machine and Equipment Designers
Description	This course introduces you to the enhancements and new functionalities in the Machine and Equipment Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Machine and Equipment Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Machine and Equipment Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Mechanical and Shape Designers

Course Code	CAT-en-WMES-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8.5 hours
Course Materials	English , German , Japanese
Level	Update
Audience	Mechanical and Shape Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanical and Shape Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanical and Shape Designer role. - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role.
Prerequisites	Students attending this course must be familiar with the Mechanical and Shape Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Mechanical and Shape Designers

Course Code	CAT-en-WMES-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	14.5 hours
Course Material	English
Level	Update
Audience	Mechanical and Shape Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanical and Shape Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanical and Shape Designer role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Mechanical and Shape Designer's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Mechanical Designers

Course Code	CAT-en-WMDG-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	7.5 hours
Course Materials	English , German , Japanese
Level	Update
Audience	Mechanical Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanical Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanical Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Mechanical Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Mechanical Designers

Course Code	CAT-en-WMDG-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	12.5 hours
Course Material	English
Level	Update
Audience	Mechanical Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanical Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanical Designer role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Mechanical Designer role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Mechanical Part Designers

Course Code	CAT-en-WMDD-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Update
Audience	Mechanical Part Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanical Part Designer role. It is self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanical Part Designer role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Mechanical Part Designer's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Mechanical Part Designers

Course Code	CAT-en-WMDD-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	Mechanical Part Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanical Part Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanical Part Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Mechanical Part Designer's role in the 3DEXPERIENCE platform R2017x release
Available Online	Yes

What's New for Mechanism Simulation Designers

Course Code	CAT-en-WMKS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Update
Audience	Mechanical and Simulation Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechanism Simulation Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechanism Simulation Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Mechanism Simulation Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Powertrain and Chassis Designers

Course Code	CAT-en-WMEF-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	9 hours
Course Material	English
Level	Update
Audience	Powertrain and Chassis Designer
Description	This course introduces you to the enhancements and new functionalities in the Powertrain and Chassis Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Powertrain and Chassis Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Powertrain and Chassis Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Shape Designers

Course Code	CAT-en-WSUA-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	4.5 hours
Course Material	English
Level	Update
Audience	Shape Designers
Description	This course introduces you to the enhancements and new functionalities in the Shape Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Shape Designer role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Shape Designer's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Shape Designers

Course Code	CAT-en-WSUA-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	Shape Designers
Description	This course introduces you to the enhancements and new functionalities in the Shape Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Shape Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Shape Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Shaped Machine and Equipment Designers

Course Code	CAT-en-WMQS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Update
Audience	Shaped Machine and Equipment Designers
Description	This course introduces you to the enhancements and new functionalities in the Shaped Machine and Equipment Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Shaped Machine and Equipment Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Shaped Machine and Equipment Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Sheet Metal Designers

Course Code	CAT-en-WSMW-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	12.5 hours
Course Material	English
Level	Update
Audience	Sheet Metal Designers
Description	This course introduces you to the enhancements and new functionalities in the Sheet Metal Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - - Describe the impact of the new capabilities on the Sheet Metal Designer role. - - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Sheet Metal Designer role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Sheet Metal Designers

Course Code	CAT-en-WSMW-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Sheet Metal Designers
Description	This course introduces you to the enhancements and new functionalities in the Sheet Metal Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Sheet Metal Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Sheet Metal Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

Learning Experience | Course Catalog

What's New in Design Review and Preparation	
Course Code	CAT-en-WDWP-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	10 hours
Course Material	English
Level	Update
Audience	Design Reviewers
Description	This course introduces you to the enhancements and new functionalities in the Design Review and Preparation role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Design Review and Preparation role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Design Review and Preparation role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

CATIA

Multi-Discipline Automated Engineering

CATIA Engineering Templates Capture Essentials

Course Code	CAT-en-PKT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create and store engineering templates and then reuse and adapt them in a new context.
Objectives	Upon completion of this course you will be able to: - Create engineering templates - Reuse the templates in a new context
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Part Design and Engineering Rules Capture.
Available Online	Yes

What's New for Template Designers

Course Code	CAT-en-WKDI-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1 hours
Course Material	English
Level	Update
Audience	Template Designers
Description	This course introduces you to the enhancements and new functionalities in the Template Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Template Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Template Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

CATIA
Multi-Discipline Engineering

3DEXPERIENCE Assembly Design Added Exercises

Course Code	CAT-en-ASD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with exercises for additional practice on the 3DEXPERIENCE Assembly Design app. The exercises have been created based on Industry practices. You will practice creating assembly structure, positioning components, constraining components using engineering connections and modifying parts in assembly context.
Objectives	Upon completion of this course you will be able to: - Practice your Assembly Design skills using selected scenarios - Apply the recommended methodology in various scenarios
Prerequisites	Students attending this course should be familiar with Part Design and Assembly Design.
Available Online	Yes

3DEXPERIENCE Generative Shape Design Essentials

Course Code	CAT-en-GSD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	24 hours
Course Materials	Chinese , English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Shape Design app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - - Create curves and improve the quality of the imported wireframes - - Create surfaces based on the wireframe geometries - - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

3DEXPERIENCE Mechanical Design Fundamentals

Course Code	CAT-en-3DFS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

3DEXPERIENCE Mechanical Design Fundamentals

Available Online	Yes

3DEXPERIENCE Part Design Added Exercises

Course Code	CAT-en-PDG-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	13 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with an exercise database for additional practice on the3DEXPERIENCE Part Design app. The exercises have been arranged in increasing order of difficulty. The fundamental exercises will check and refresh your basic Part Design skills before you move on to more complex topics. The advanced exercises will make you practice the recommended design methodologies using realistic parts.
Objectives	Apply your Mechanical skills in selected scenarios. - Employ the recommended methodology in various situations and efficiently use the Mechanical workbenches.
Prerequisites	Students attending this course must have completed the 3DEXPERIENCE Part Design and 3DEXPERIENCE Knowledge Fundamentals courses.
Available Online	Yes

3DEXPERIENCE Surface Design Added Exercises

Course Code	CAT-en-GS1-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Exercise
Audience	Mechanical Surface Designers
Description	This course provides you with an exercise database for additional practice on 3DEXPERIENCE Surface Design. The exercises have been created based on Industry practices. You will get to practice skills such as creating wireframes and surfaces, creating surfacic shells and solid parts, and working with multiple parts that are referencing a common part.
Objectives	These exercises will allow you to put your Shape skills into practice on selected scenarios. - You will apply the recommended methodology in various situations. - You will enhance your understanding and usage of the Shape apps.
Prerequisites	Students attending this course should be familiar with 3DEXPERIENCE Surface Design.
Available Online	Yes

3DEXPERIENCE Surface Design Expert Added Exercises

Course Code	CAT-en-GSD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers and Surface Designers
Description	This course provides you with an extensive database of exercises for additional practice on advanced topics of Surface Design. The exercises have been created based on the Industry practices.
Objectives	Upon completion of this course you will be able to: - Create wireframe features using the existing curves and surfaces - Create advanced and parameterized swept surfaces - Perform advanced surface analysis and gap correction - Create advanced blend features - Improve the quality and stability of created geometries
Prerequisites	Students attending this course should know the basic and advanced features of Surface Design.
Available Online	Yes

CATIA 2D Layout for 3D Design Essentials

Course Code	CAT-en-LO1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course you will learn how to create 2D layout views in a 3D model and use them to design the part in the 3D environment.
Objectives	Upon completion of this course you will be able to: - Create 2D layout views in a 3D environment - Export 2D geometry into a 3D environment - Create drawings using the 2D layout views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Part and Assembly Design.
Available Online	Yes

CATIA 3D Annotation Insight Essentials

Course Code	CAT-en-LFT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Design, Quality and other such departments where interrogating and annotating the 3D model is a frequent or occasional requirement.
Description	This course teaches how to use the 3D Annotation Insight app to review and filter 3D annotations information contained within part and assembly documents. Students will learn how to hide / show annotations and captures, use the dimensioning and tolerancing annotations to enhance understanding and improve the decision making.
Objectives	Upon completion of this course you will be able to: - Access and visualize the view, capture and annotation review features - Query and filter 3D annotations - Show/Hide individual as well as all annotations of a given type - Display FTA captures - Remove the FTA clipping plane of a capture - Filter 3D annotations
Prerequisites	Students attending this course should have taken the Gateway to the 3DEXPERIENCE platform course and should be familiar with the Windows Operating System.
Available Online	Yes

CATIA 3D Printing Preparation Essentials

Course Code	CAT-en-TLE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Virtual and Physical Prototypers
Description	This course will teach you how to create an output for 3D printing. You will also learn how to improve the characteristics of a mesh.
Objectives	Upon completion of this course you will be able to: - Import a cloud of points - Prepare a mesh for 3D Printing - Create an output for 3D Printing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Assembly Design Expert

Course Code	CAT-en-ASD-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex assembly modeling techniques. You will learn how to design a product architecture and manage complex assembly structures. You will also learn how to use advanced features to design parts within an assembly environment and how to analyze interferences.
Objectives	Upon completion of this course you will be able to: - Analyze interferences - Analyze component links and relations - Design complex products - Design new parts within a product - Manage complex product structures
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design and Assembly Design fundamentals.
Available Online	Yes

CATIA Assembly Design Fundamentals (ASD)

Course Code	CAT-en-ASD-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create a simple product structure and how to add components and position them correctly. You will also learn how to analyze the weight distribution, create new component revisions and replace components.
Objectives	Upon completion of this course you will be able to: - Create a new product and add components - Position components within a product - Modify a product structure - Analyze weight distribution - Replace components
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design in CATIA.
Available Online	Yes

CATIA Bent Part Design Essentials

Course Code	CAT-en-SMB-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designer and Sheetmetal Designer
Description	This course will teach you how to use the Bent Part Design app to create and modify a sheetmetal part. You will learn how to define the sheetmetal parameters and create features such as walls, bends, cutouts and corners. You will also learn different techniques for multi-selecting the objects and constraining the parts.
Objectives	Upon completion of this course you will be able to: - Define and modify the sheetmetal parameters - Create a sheetmetal part using the wall and bend features - Manage the folded and unfolded views of parts - Create cutouts, chamfers and corners - Constrain the parts
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Composites Braiding Essentials

Course Code	CAT-en-CPB-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Composites Braiding Designers
Description	This course will teach you how to generate a braiding mesh and the braiding surface from the base surface of a composite part. You will learn how to create and modify the plies manually. You will also learn how to analyze the producibility of the braided part and visualize the result of the analysis.
Objectives	Upon completion of this course you will be able to: - Define the Composites Parameters - Design a composites braided part using the manual approach - Simulate and optimize the braiding process - Generate an accurate braiding mesh
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Composites Design Essentials

Course Code	CAT-en-CPE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	40 hours
Course Material	English
Level	Fundamental
Audience	Composites Designers
Description	This course will first teach you how to design simple composites parts using the Manual approach. You will then learn how to use the Zone-based approach to complete the preliminary design and then the detailed design. The course will also focus on how the Grid approach can be used for wing, fuselage or wind turbine blade design. You will also learn how to generate plies automatically, use the analysis tools and simulate fiber behavior. Finally, you will learn how generate exact solids and create composites drawings.
Objectives	Define Composites Parameters - Design a Composite Part using the Manual Approach - Design a Composite Part using the Classical and Solid Zone Approach - Design a Composite Part using the Grid Approach - Perform and inspect the Producibility Analysis - Export and import the Ply Design Data - Create a Ply Book
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Drafting.
Available Online	Yes

CATIA Composites Manufacturing Preparation Essentials

Course Code	CAT-en-CPM-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Composites manufacturing designers
Description	This course will teach you how to create a manufacturing document from a composites engineering design document. You will also learn how to modify the manufacturing data structure and synchronize the link between the engineering and the manufacturing data. Furthermore, you will learn how to apply the manufacturing and producibility constraints in the composites design process.
Objectives	Upon completion of this course you will be able to: - - Design a composite part using the Manual approach - Generate a manufacturing stacking from an engineering stacking - Synchronize the link between the manufacturing and engineering parts - Perform and inspect the producibility analysis - Compute and optimize flattened geometries - Export the ply data - Create a ply book
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Drafting.

CATIA Composites Manufacturing Preparation Essentials

Available Online	Yes

CATIA Digitized Shape Preparation Essentials

Course Code	CAT-en-DSE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Transportation Designers
Description	This course will teach you how to create a cloud of points and then process those points. You will also learn how to mesh the clouds, improve the mesh characteristics, align the cloud of points and perform deviation analysis.
Objectives	Upon completion of this course, you will be able to: - Create a cloud of points - Process the points of a cloud - Mesh the clouds - Improve the mesh characteristics - Align the cloud of points - Perform deviation analysis
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course
Available Online	Yes

CATIA Drafting Expert

Course Code	CAT-en-GDR-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Draftsmen
Description	This course will teach you how to manage drawing sheets and views in the Drafting app. You will also learn how to use advanced tools to dress-up, annotate views.
Objectives	Upon completion of this course you will be able to: - Finalize the drawing sheet - Work with large assemblies - Customize the drafting app - Perform administrative tasks - Add Bill of Material
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Drafting Fundamentals

Course Code	CAT-en-GDR-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Draftsmen
Description	This course will teach you how to create drawings using the Drafting app. You will learn how to create projection views and section views of a 3D model or an assembly and add the required dimensions.
Objectives	Create simple projection views and section views of 3D parts and assemblies - Position the views on a drawing sheet - Add dimensions and annotations to the views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Engineering Templates Capture Essentials

Course Code	CAT-en-PKT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create and store engineering templates and then reuse and adapt them in a new context.
Objectives	Upon completion of this course you will be able to: - Create engineering templates - Reuse the templates in a new context
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Part Design and Engineering Rules Capture.
Available Online	Yes

CATIA Engineering Templates Reuse Essentials

Course Code	CAT-en-KT1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	30 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course, you will learn how to create customized features by reusing the power copy and user feature.
Objectives	Upon completion of this course you will be able to: - Create customized features using templates.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA FreeStyle Shape Design Essentials

Course Code	CAT-en-FSS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Industrial Designers and Creative Designers
Description	This course will teach you how to create flawless, styled shapes from scratch using 3D free-form curves and surfaces or using digitized data. You will also learn how to analyze and enhance the quality of existing curves and surfaces.
Objectives	Upon completion of this course you will be able to: - - Create styled shapes using digitized data - Create surfaces using the curve-based and the surface-based approaches - Analyze and enhance the quality of curves and surfaces
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Generative Surface Design in CATIA.
Available Online	Yes

CATIA Functional Plastic Parts Essentials

Course Code	CAT-en-FMP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Plastic Part Designers and Molded Part Designers
Description	This course will teach you how to use the Functional Plastic Parts app to create molded parts. You will also learn how to create a core and a cavity using styling data. You will be able to create a detailed design by adding holes, stiffening ribs, bosses and additional fixtures. You will also be able to modify the design and complete the final part with additional draft and fillet features.
Objectives	Upon completion of this course you will be able to: - Create a molded plastic part - Add holes and protected areas - Add ribs and bosses
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the Part Design app.
Available Online	Yes

CATIA Generative Shape Develop Essentials

Course Code	CAT-en-DL1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use CATIA Generative Shape Develop app functionalities to create unfolded surfaces from a ruled surface. You will learn how to develop wires and points onto a revolution surface.
Objectives	Upon completion of this course, you will be able to: - Create unfolded surfaces from a ruled surface using the CATIA Generative Shape Develop app functionalities - Develop wires and points onto a revolution surface
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Surface Design in CATIA.
Available Online	Yes

CATIA Generative Wireframe and Surface Essentials

Course Code	CAT-en-GS1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Wireframe and Surface app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - Create curves and improve the quality of the imported wireframes - Create surfaces based on the wireframe geometries - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Mechanical Design Expert

Course Code	CAT-en-3DE-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex modeling techniques. You will use advanced sketch-based and surface-based features to design parts and learn how to improve productivity by reusing existing features. You will also see how to design a product architecture and manage complex assembly structures, using advanced features to design parts within an assembly environment. Finally, you will learn how to analyze interferences and then create an assembly layout using advanced tools to dress-up and annotate the final drawing.
Objectives	Upon completion of this course you will be able to: - Create and manage complex parts - Create fully parameterized models - Create re-usable features - Analyze interferences, component links and relations - Manage complex product structures - Design new parts within a product - Create large assembly layouts with tables and bill of materials
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course

CATIA Mechanical Design Expert

	and in addition, they should be familiar with the Mechanical Design Fundamentals.
Available Online	Yes

CATIA Mechanical Design Fundamentals

Course Code	CAT-en-3DF-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Upon completion of this course you will be able to: - Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Mechanical Design Fundamentals

Available Online	Yes

CATIA Mechanical Systems Design Essentials

Course Code	CAT-en-KIM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create the architecture of a mechanism using simple wireframe elements and then complete the mechanism by adding 3D representations. You will also learn how to create a more complex mechanism using existing mechanisms, and finally how to animate the result.
Objectives	Upon completion of this course you will be able to: - Create a new mechanism - Manage the mechanism behavior - Include alternative representations to complete the mechanism - Create a new macro mechanism from existing sub-mechanisms - Animate the mechanism
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with the Assembly Design app.
Available Online	Yes

CATIA Natural Assembly Essentials

Course Code	CAT-en-LCP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	This course will teach you how to create and manage product structures. You will explore a product and modify its structure by adding new products and exploding existing products. You will then scan the structure to activate a working product level, search for and add existing parts and use constraints to position the parts. Finally, you will create a new sub-product from a components list and use it to complete the product.
Objectives	Upon completion of this course you will be able to: - Explore a product and modify its structure using Natural Assembly - Select the product levels using the Ladder functionality - Search for a product and insert it in an existing assembly - Position the parts using constraints - Create a new sub-product from a component's list and use it to complete the product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Natural Assembly Essentials

Available Online	Yes

CATIA Natural Shape Essentials

Course Code	CAT-en-LSP-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Conceptual Designers, Stylists, Simulation and Manufacturing Engineers
Description	This course will introduce you to the CATIA Natural Shape app and its unique working environment. You will learn how to use the app to conceptualize, create and modify mechanical parts and shapes. The course features short-duration demos followed by exercises which will allow you to practice. You will also learn the related theory, tips and recommendations while performing the exercises.
Objectives	Upon completion of this course you will be able to: - Create a conceptual design directly in 3D - Use the hybrid design environment to conceptualize your designs - Work on the structure to create the 3D parts - Navigate through the structure and position the parts - Reuse the existing designs in the 3D models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Natural Sketch Essentials

Course Code	CAT-en-NTS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Creative Designers
Description	This course contains both videos and exercises. After a short introduction to the app and the user interface, videos will be used to demonstrate the sketching techniques and the use of the sketch tools. You will use the exercises that follow the videos to practice what you have learned and familiarize yourself with the available tools.
Objectives	Upon completion of this course you will be able to: - - Sketch curves or primitives in 2D and 3D - Trace and refine vector or primitive curves - Sketch on a surface - Import and edit images - Transform curves and images
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with basic sketching techniques.
Available Online	Yes

CATIA Part Design Expert

Course Code	CAT-en-PDG-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Advanced
Audience	Mechanical and Sheet Metal Designers
Description	This course will introduce you to complex 3D modeling techniques, using advanced sketch-based and surface-based features. You will learn how to manage complex part structures and how to improve productivity by reusing existing features. Finally, you will learn how to use parameters and tables to drive the design of a model.
Objectives	Design parts with complex geometries - Create and manage robust part structures - Create fully parameterized models - Create re-usable features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design fundamentals.
Available Online	Yes

CATIA Part Design Fundamentals

Course Code	CAT-en-PDG-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create a 3D model using the CATIA Part Design app. You will learn how to use different feature-based tools to build a 3D model. You will also learn how to add parameters, then review, measure and modify a model.
Objectives	Upon completion of this course you will be able to: - Create new parts - Create and constrain 2D sketches - Complete a 3D model using basic features - Parameterize a model - Review and measure a model - Reuse existing features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Quality Rules Reuse Essentials

Course Code	CAT-en-KE1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	5 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will show you how to share corporate knowledge stored in the rule bases and leverage it across the company to ensure design compliance with the established standards. You will also learn to create reports and manage their template.
Objectives	Upon completion of this course you will be able to: - Automate the design modifications - Analyze and create reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Shape Healing Essentials

Course Code	CAT-en-HA1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Fundamental
Audience	Tooling Designers, Mechanical Designers and Surface Designers.
Description	This course introduces you to the user interface and basic tools of CATIA Shape Healing app. You will learn to analyze and repair the imported data (IGES 3D or CATIA V4 files). You will also learn how to compare two versions of a part and to customize the workbench, in order to suit your needs.
Objectives	Upon completion of this course, you will be able to: - Analyze the imported data - Repair the imported data - Compare two versions of a part - Customize the app
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Surface Design.
Available Online	Yes

CATIA Sheet Metal Design Essentials

Course Code	CAT-en-SMD-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Sheet Metal Designer
Description	This course will teach you how to create a sheet metal part using standard wall, bend and stamping features. You will see how user features can be incorporated into the design and how to use both standard and user-defined materials. Finally you will learn how to create a flat pattern and produce a detailed, annotated drawing.
Objectives	Upon completion of this course you will be able to: - Create a sheet metal part using wall and bend features - Manage folded and unfolded views - Use pre-defined sheet metal parameters - Create stamped features - Create duplicating features and use the multi-body methodology - Creating drawings of sheet metal parts - Export a finished flat pattern
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design app.
Available Online	Yes

CATIA Structure Design Essentials

Course Code	CAT-en-SDD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Structural Designers, Naval Architects
Description	This course will teach you how to create the detail design of a ship. You will learn how to synchronize basic design with detail design. You will learn how to create features like stiffeners, collars and brackets. You will also learn how to set up and later customize resources for the design project.
Objectives	Upon completion of this course you will be able to: - Set up and modify the project resources - Create the detail design of a ship - Synchronize basic design with detail design - Add detail design elements - Add end cuts, slots, openings, scallops and welds - Generate drawings
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Structure Functional Design.
Available Online	Yes

CATIA Structure Functional Design Essentials

Course Code	CAT-en-SFD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Structural Designers, Naval Architects
Description	This course will teach you how to create the functional design of a ship, including such features as the hull form, the main panels, stiffeners and openings. You will learn how to use the design to generate a material report and a finite element model. You will also learn how to set up and later customize resources for the design project.
Objectives	Upon completion of this course you will be able to: - Set up the project resources - Create a hull shell, deck and the bulkhead panels - Place stiffeners on the panels - Create openings and slots - Generate a material report - Generate a finite element model - Generate a panel drawing - Modify the setup by updating the resources
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Virtual to Real Shape Morphing Essentials

Course Code	CAT-en-RSO-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Reverse Shape Optimizers
Description	This course will teach you how to create a deformation law with the 3DEXPERIENCE platform. You will learn how to use the deformation law in Digitized Morphing for curve and solids. You will learn about optimization of a vector field and also how to filter a vector field to check quality of vectors.
Objectives	Upon completion of this course you will be able to: - Morph surfaces with a computed deformation field - Optimize vectors field from deviation analysis - Filter vectors field to check the quality of the vectors
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should be familiar with the fundamentals of CATIA surface design.
Available Online	Yes

Gateway to the 3DEXPERIENCE platform

Course Code	CAT-en-GTX-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Materials	English , French , German , Japanese
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course is the entry point to the 3DEXPERIENCE platform. Its purpose is to empower users of the platform by teaching them how to access their work environment, navigate, search, work on their data, use and manage their dashboard and collaborate with their peers thanks to communities. This course will teach you the new interface and functionalities of the 3DEXPERIENCE platform. You will learn how to connect to the platform, manage your projects, search documents and share content along with knowledge or skills with other users.
Objectives	Upon completion of this course you will be able to: - Understand the 3DEXPERIENCE interface - Connect to the 3DEXPERIENCE platform - Access your Dashboard - Use the 6WTags for searching content - Share various documents with other users through - 3DSpace - Use standard menus and commands - Explain the functionalities of various apps in the - 3DEXPERIENCE platform - Import new data and export it as 3DXML files - Search for a 3D data using different methods - Explore and open 3D data - Manipulate the tree

Gateway to the 3DEXPERIENCE platform	
	- Filter data
Prerequisites	There are no prerequisites for this course
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Course Code	CAT-en-3DMTVS-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design.

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Available Online	Yes

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Course Code	CAT-en-3DMTVS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts.
Description	This course addresses the needs of Mechanical Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product - Design parts in context - Create assembly features and catalogs - Analyze the assemblies

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Surface Designers

Course Code	CAT-en-3DST-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Designers who need to work with styled parts.
Description	This course addresses the needs of Surface Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design and Surface Design.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Surface Designers

Course Code	CAT-en-3DSTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with styled parts.
Description	This course addresses the needs of Surface Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Create a new part version - Replace a part and update a product - Replay master exercise based on shape functionalities
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design and Surface Design.
Available Online	Yes

What's New for Composites Designers

Course Code	CAT-en-WCDE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	10 hours
Course Material	English
Level	Update
Audience	Composites Designers
Description	This course introduces you to the enhancements and new functionalities in the Composites Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Composites Designer role. - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role.
Prerequisites	Students attending this course must be familiar with the Composites Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Composites Designers and Manufacturers

Course Code	CAT-en-WCDL-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2.5 hours
Course Material	English
Level	Update
Audience	Composite Designers and Manufacturers
Description	This course introduces you to the enhancements and new functionalities in the Composites Designer and Manufacturer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Composites Designer and Manufacturer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Composites Designer and Manufacturer's role in 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Composites Engineers

Course Code	CAT-en-WCDF-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	10 hours
Course Material	English
Level	Update
Audience	Composites Engineers
Description	This course introduces you to the enhancements and new functionalities in the Composites Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Composites Engineer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Composites Engineer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Composites Manufacturers	
Course Code	CAT-en-WCMF-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Composites Manufacturers
Description	This course introduces you to the enhancements and new functionalities in the Composites Manufacturer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Composites Manufacturer role. - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role.
Prerequisites	Students attending this course must be familiar with the Composites Manufacturer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Interior Designers

Course Code	CAT-en-WFPM-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Interior Designers
Description	This course introduces you to the enhancements and new functionalities in the Interior Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Interior Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Interior Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Plastic Mechanical Designers

Course Code	CAT-en-WFPP-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Plastic Mechanical Designers
Description	This course introduces you to the enhancements and new functionalities in the Plastic Mechanical Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Plastic Mechanical Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Plastic Mechanical Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Product Enclosure Designers

Course Code	CAT-en-WPED-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Product Enclosure Designers
Description	This course introduces you to the enhancements and new functionalities in the Product Enclosure Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Product Enclosure Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Product Enclosure Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Product Enclosure Designers

Course Code	CAT-en-WPED-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	12.5 hours
Course Material	English
Level	Update
Audience	Product Enclosure Designers
Description	This course introduces you to the enhancements and new functionalities in the Product Enclosure Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Product Enclosure Designer role - Use the enhancements that you have learnt
Prerequisites	Students attending this course must be familiar with the Product Enclosure Designer's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Structure Designers

Course Code	CAT-en-WSTR-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Structural Designers, Naval Architects
Description	This course introduces you to the enhancements and new functionalities in the Structure Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of these new capabilities on the Structure Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role.
Prerequisites	Students attending this course must be familiar with the Structure Designer role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

CATIA
Styling

3DEXPERIENCE Assembly Design Added Exercises

Course Code	CAT-en-ASD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with exercises for additional practice on the 3DEXPERIENCE Assembly Design app. The exercises have been created based on Industry practices. You will practice creating assembly structure, positioning components, constraining components using engineering connections and modifying parts in assembly context.
Objectives	Upon completion of this course you will be able to: - Practice your Assembly Design skills using selected scenarios - Apply the recommended methodology in various scenarios
Prerequisites	Students attending this course should be familiar with Part Design and Assembly Design.
Available Online	Yes

3DEXPERIENCE Surface Design Added Exercises

Course Code	CAT-en-GS1-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Exercise
Audience	Mechanical Surface Designers
Description	This course provides you with an exercise database for additional practice on 3DEXPERIENCE Surface Design. The exercises have been created based on Industry practices. You will get to practice skills such as creating wireframes and surfaces, creating surfacic shells and solid parts, and working with multiple parts that are referencing a common part.
Objectives	These exercises will allow you to put your Shape skills into practice on selected scenarios. - You will apply the recommended methodology in various situations. - You will enhance your understanding and usage of the Shape apps.
Prerequisites	Students attending this course should be familiar with 3DEXPERIENCE Surface Design.
Available Online	Yes

3DEXPERIENCE Surface
Design Expert Added Exercises

Course Code	CAT-en-GSD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers and Surface Designers
Description	This course provides you with an extensive database of exercises for additional practice on advanced topics of Surface Design. The exercises have been created based on the Industry practices.
Objectives	Upon completion of this course you will be able to: - Create wireframe features using the existing curves and surfaces - Create advanced and parameterized swept surfaces - Perform advanced surface analysis and gap correction - Create advanced blend features - Improve the quality and stability of created geometries
Prerequisites	Students attending this course should know the basic and advanced features of Surface Design.
Available Online	Yes

CATIA 2D Layout for 3D Design Essentials	
Course Code	CAT-en-LO1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course you will learn how to create 2D layout views in a 3D model and use them to design the part in the 3D environment.
Objectives	Upon completion of this course you will be able to: - Create 2D layout views in a 3D environment - Export 2D geometry into a 3D environment - Create drawings using the 2D layout views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Part and Assembly Design.
Available Online	Yes

CATIA Assembly Design Fundamentals (ASD)

Course Code	CAT-en-ASD-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create a simple product structure and how to add components and position them correctly. You will also learn how to analyze the weight distribution, create new component revisions and replace components.
Objectives	Upon completion of this course you will be able to: - Create a new product and add components - Position components within a product - Modify a product structure - Analyze weight distribution - Replace components
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design in CATIA.
Available Online	Yes

CATIA Drafting Expert	
Course Code	CAT-en-GDR-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Draftsmen
Description	This course will teach you how to manage drawing sheets and views in the Drafting app. You will also learn how to use advanced tools to dress-up, annotate views and customize the Drafting app.
Objectives	Upon completion of this course you will be able to: - Finalize the drawing sheet - Work with large assemblies - Customize the drafting app - Perform administrative tasks - Add Bill of Material
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Drafting Fundamentals

Course Code	CAT-en-GDR-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Draftsmen
Description	This course will teach you how to create drawings using the Drafting app. You will learn how to create projection views and section views of a 3D model or an assembly and add the required dimensions.
Objectives	Create simple projection views and section views of 3D parts and assemblies - Position the views on a drawing sheet - Add dimensions and annotations to the views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Engineering Templates Reuse Essentials

Course Code	CAT-en-KT1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	30 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course, you will learn how to create customized features by reusing the power copy and user feature.
Objectives	Upon completion of this course you will be able to: - Create customized features using templates.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA FreeStyle Shape Design Essentials

Course Code	CAT-en-FSS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Industrial Designers and Creative Designers
Description	This course will teach you how to create flawless, styled shapes from scratch using 3D free-form curves and surfaces or using digitized data. You will also learn how to analyze and enhance the quality of existing curves and surfaces.
Objectives	Upon completion of this course you will be able to: - - Create styled shapes using digitized data - Create surfaces using the curve-based and the surface-based approaches - Analyze and enhance the quality of curves and surfaces
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Generative Surface Design in CATIA.
Available Online	Yes

CATIA Generative Shape Develop Essentials

Course Code	CAT-en-DL1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use CATIA Generative Shape Develop app functionalities to create unfolded surfaces from a ruled surface. You will learn how to develop wires and points onto a revolution surface.
Objectives	Upon completion of this course, you will be able to: - Create unfolded surfaces from a ruled surface using the CATIA Generative Shape Develop app functionalities - Develop wires and points onto a revolution surface
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Surface Design in CATIA.
Available Online	Yes

CATIA Generative Wireframe and Surface Essentials

Course Code	CAT-en-GS1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Wireframe and Surface app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - Create curves and improve the quality of the imported wireframes - Create surfaces based on the wireframe geometries - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA ICEM Shape Design Essentials

Course Code	CAT-en-ICM-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	28 hours
Course Material	English
Level	Fundamental
Audience	Class A Modelers
Description	This course will teach you how to use the 3DEXPERIENCE CATIA ICEM Shape Design app to create good quality curves and Class A surfaces. You will learn how to analyze the wireframe and surface quality and interpret the results in order to correct visual defects.
Objectives	Upon completion of this course you will be able to: - Create robust class A surface models - Create good quality curves - Assemble, re-limit and connect the surfaces - Analyze surface quality - Correct surface defects - Manage surface models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with surface design.
Available Online	Yes

CATIA ICEM Shape Morphing Essentials

Course Code	CAT-en-IEX-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	9 hours
Course Material	English
Level	Fundamental
Audience	Class A Experts
Description	This course will teach you how to use the advanced surface creation options, the advanced analysis tools, and the Expert tools of CATIA Icem Shape Morphing. You will learn how to create high-quality surfaces, and analyze and improve the quality of the surfaces.
Objectives	Upon completion of this course, you will be able to: - Create high quality surfaces - Analyze surface quality - Correct surface defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the ICEM Shape Design and the Wireframe and Surface Design apps.
Available Online	Yes

CATIA Live Rendering Essentials

Course Code	CAT-en-LRE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Visual Experience Designers
Description	This course will introduce you to the CATIA Live Rendering app and its working environment. You will learn how to create highly realistic renderings and visualizations by application of customized materials, ambiences, cameras and lights. You will also learn about various other tools and options that you can use for creating rendered images and videos.
Objectives	Upon completion of this course you will be able to: - Create and apply materials and stickers to 3D models. - Enhance a 3D Scene by adding dome ambiences and HDRi lights. - Create Cameras and animations for realistic visualizations and renderings - Render batches of images and animations - Export rendered images and generate videos - Add 3D environment and visualize the model
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Mechanical Surface Refinement Essentials

Course Code	CAT-en-SRF-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Surface styling designers
Description	This course will teach you how to use the CATIA Mechanical Surface Refinement app to modify and refine a mechanical surface in order to improve the surface quality.
Objectives	Upon completion of this course you will be able to: - Create a preliminary surface design - Analyze the result and identify problem areas - Modify the design using styling surfaces - Refine the design - Complete a high quality surface design
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of CATIA surface design.
Available Online	Yes

CATIA Natural Assembly Essentials

Course Code	CAT-en-LCP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	This course will teach you how to create and manage product structures. You will explore a product and modify its structure by adding new products and exploding existing products. You will then scan the structure to activate a working product level, search for and add existing parts and use constraints to position the parts. Finally, you will create a new sub-product from a components list and use it to complete the product.
Objectives	Upon completion of this course you will be able to: - Explore a product and modify its structure using Natural Assembly - Select the product levels using the Ladder functionality - Search for a product and insert it in an existing assembly - Position the parts using constraints - Create a new sub-product from a component's list and use it to complete the product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Natural Assembly Essentials

Available Online	Yes

CATIA Natural Sketch Essentials

Course Code	CAT-en-NTS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Creative Designers
Description	This course contains both videos and exercises. After a short introduction to the app and the user interface, videos will be used to demonstrate the sketching techniques and the use of the sketch tools. You will use the exercises that follow the videos to practice what you have learned and familiarize yourself with the available tools.
Objectives	Upon completion of this course you will be able to: - - Sketch curves or primitives in 2D and 3D - Trace and refine vector or primitive curves - Sketch on a surface - Import and edit images - Transform curves and images
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with basic sketching techniques.
Available Online	Yes

CATIA Quality Rules Reuse Essentials

Course Code	CAT-en-KE1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	5 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will show you how to share corporate knowledge stored in the rule bases and leverage it across the company to ensure design compliance with the established standards. You will also learn to create reports and manage their template.
Objectives	Upon completion of this course you will be able to: - Automate the design modifications - Analyze and create reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Shape Healing Essentials

Course Code	CAT-en-HA1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Fundamental
Audience	Tooling Designers, Mechanical Designers and Surface Designers.
Description	This course introduces you to the user interface and basic tools of CATIA Shape Healing app. You will learn to analyze and repair the imported data (IGES 3D or CATIA V4 files). You will also learn how to compare two versions of a part and to customize the workbench, in order to suit your needs.
Objectives	Upon completion of this course, you will be able to: - Analyze the imported data - Repair the imported data - Compare two versions of a part - Customize the app
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Surface Design.
Available Online	Yes

CATIA Virtual to Real Shape Morphing Essentials	
Course Code	CAT-en-RSO-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Reverse Shape Optimizers
Description	This course will teach you how to create a deformation law with the 3DEXPERIENCE platform. You will learn how to use the deformation law in Digitized Morphing for curve and solids. You will learn about optimization of a vector field and also how to filter a vector field to check quality of vectors.
Objectives	Upon completion of this course you will be able to: - Morph surfaces with a computed deformation field - Optimize vectors field from deviation analysis - Filter vectors field to check the quality of the vectors
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should be familiar with the fundamentals of CATIA surface design.
Available Online	Yes

Gateway to the 3DEXPERIENCE platform

Course Code	CAT-en-GTX-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course is the entry point to the 3DEXPERIENCE platform. Its purpose is to teach you how to connect to the platform, access your work environment, navigate, search, work on the data, manage your projects, manage the dashboard, collaborate with your peers and share content in communities. You will also learn about the latest modifications to the user interface and the new functionalities that are added to the 3DEXPERIENCE platform.
Objectives	Upon completion of this course, you will be able to: - Connect to the 3DEXPERIENCE platform and use the user interface - Access your Dashboard - Use the 6WTags for searching content - Share various documents with other users through 3DSpace - Use standard menus and commands - Explain the functionalities of various apps in the 3DEXPERIENCE platform - Import new data and export it as 3DXML files - Search for a 3D data using different methods - Explore and open 3D data - Manipulate the tree - Filter data

Gateway to the 3DEXPERIENCE platform

Prerequisites	There are no prerequisites for this course.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Course Code	CAT-en-3DMTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

Transition to the 3DEXPERIENCE platform for Mechanical Designers

	They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Course Code	CAT-en-3DMT-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Upon completion of this course, you will be able to: - Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product - Design parts in context - Create assembly features and catalogs - Analyze the assemblies

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Surface Designers

Course Code	CAT-en-3DST-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Designers who need to work with styled parts.
Description	This course addresses the needs of Surface Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design and Surface Design.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Surface Designers

Course Code	CAT-en-3DSTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with styled parts.
Description	This course addresses the needs of Surface Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	Upon completion of this course you will be able to: - Create new products and parts - Create a new part version - Replace a part and update a product - Replay master exercise based on shape functionalities
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design and Surface Design.
Available Online	Yes

What's New for Aesthetical Shape Modelers

Course Code	CAT-en-WFFS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	3.5 hours
Course Material	English
Level	Update
Audience	Aesthetical Shape Modelers
Description	This course introduces you to the enhancements and new functionalities in the Aesthetical Shape Modeler role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Aesthetical Shape Modeler role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Aesthetical Shape Modeler role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Class A Modelers	
Course Code	CAT-en-WICD-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	5 hours
Course Material	English
Level	Update
Audience	Class A Modeler, Shape Designers
Description	This course introduces you to the enhancements and new functionalities in the Class A Modeler role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Class A Modeler role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Class A Modeler's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Creative Designers

Course Code	CAT-en-WCCS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Update
Audience	Creative Designers
Description	This course introduces you to the enhancements and new functionalities in the Creative Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Creative Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Creative Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Product Industrial Designers

Course Code	CAT-en-WCDD-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Update
Audience	Product Industrial Designers
Description	This course introduces you to the enhancements and new functionalities in the Product Industrial Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Product Industrial Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Product Industrial Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Transportation Designers

Course Code	CAT-en-WCDT-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Update
Audience	Transportation Designers
Description	This course introduces you to the enhancements and new functionalities in the Transportation Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Transportation Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Transportation Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Virtual and Physical Prototypers

Course Code	CAT-en-WRPE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2.5 hours
Course Material	English
Level	Update
Audience	Virtual and Physical Prototypers
Description	This course introduces you to the enhancements and new functionalities in the Virtual and Physical Prototypers role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Virtual and Physical Prototypers role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Virtual and Physical Prototyper's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

CATIA
Systems Engineering

3DEXPERIENCE Assembly Design Added Exercises

Course Code	CAT-en-ASD-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with exercises for additional practice on the 3DEXPERIENCE Assembly Design app. The exercises have been created based on Industry practices. You will practice creating assembly structure, positioning components, constraining components using engineering connections and modifying parts in assembly context.
Objectives	Upon completion of this course you will be able to: - Practice your Assembly Design skills using selected scenarios - Apply the recommended methodology in various scenarios
Prerequisites	Students attending this course should be familiar with Part Design and Assembly Design.
Available Online	Yes

3DEXPERIENCE Mechanical Design Fundamentals

Course Code	CAT-en-3DFS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

3DEXPERIENCE Mechanical Design Fundamentals

Available Online	Yes

3DEXPERIENCE Part Design Added Exercises

Course Code	CAT-en-PDG-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	13 hours
Course Material	English
Level	Exercise
Audience	Mechanical Designers
Description	This course provides you with an exercise database for additional practice on the3DEXPERIENCE Part Design app. The exercises have been arranged in increasing order of difficulty. The fundamental exercises will check and refresh your basic Part Design skills before you move on to more complex topics. The advanced exercises will make you practice the recommended design methodologies using realistic parts.
Objectives	Apply your Mechanical skills in selected scenarios. - Employ the recommended methodology in various situations and efficiently use the Mechanical workbenches.
Prerequisites	Students attending this course must have completed the 3DEXPERIENCE Part Design and 3DEXPERIENCE Knowledge Fundamentals courses.
Available Online	Yes

3DEXPERIENCE Surface Design Added Exercises

Course Code	CAT-en-GS1-X-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Exercise
Audience	Mechanical Surface Designers
Description	This course provides you with an exercise database for additional practice on 3DEXPERIENCE Surface Design. The exercises have been created based on Industry practices. You will get to practice skills such as creating wireframes and surfaces, creating surfacic shells and solid parts, and working with multiple parts that are referencing a common part.
Objectives	These exercises will allow you to put your Shape skills into practice on selected scenarios. - You will apply the recommended methodology in various situations. - You will enhance your understanding and usage of the Shape apps.
Prerequisites	Students attending this course should be familiar with 3DEXPERIENCE Surface Design.
Available Online	Yes

CATIA 2D Layout for 3D Design Essentials

Course Code	CAT-en-LO1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course you will learn how to create 2D layout views in a 3D model and use them to design the part in the 3D environment.
Objectives	Upon completion of this course you will be able to: - Create 2D layout views in a 3D environment - Export 2D geometry into a 3D environment - Create drawings using the 2D layout views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Part and Assembly Design.
Available Online	Yes

CATIA Assembly Design Expert

Course Code	CAT-en-ASD-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex assembly modeling techniques. You will learn how to design a product architecture and manage complex assembly structures. You will also learn how to use advanced features to design parts within an assembly environment and how to analyze interferences.
Objectives	Upon completion of this course you will be able to: - Analyze interferences - Analyze component links and relations - Design complex products - Design new parts within a product - Manage complex product structures
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design and Assembly Design fundamentals.
Available Online	Yes

CATIA Assembly Design Fundamentals (ASD)

Course Code	CAT-en-ASD-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create a simple product structure and how to add components and position them correctly. You will also learn how to analyze the weight distribution, create new component revisions and replace components.
Objectives	Upon completion of this course you will be able to: - Create a new product and add components - Position components within a product - Modify a product structure - Analyze weight distribution - Replace components
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Part Design in CATIA.
Available Online	Yes

CATIA Drafting Expert

Course Code	CAT-en-GDR-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Advanced
Audience	Draftsmen
Description	This course will teach you how to manage drawing sheets and views in the Drafting app. You will also learn how to use advanced tools to dress-up, annotate views.
Objectives	Upon completion of this course you will be able to: - Finalize the drawing sheet - Work with large assemblies - Customize the drafting app - Perform administrative tasks - Add Bill of Material
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Drafting Fundamentals	
Course Code	CAT-en-GDR-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Draftsmen
Description	This course will teach you how to create drawings using the Drafting app. You will learn how to create projection views and section views of a 3D model or an assembly and add the required dimensions.
Objectives	Create simple projection views and section views of 3D parts and assemblies - Position the views on a drawing sheet - Add dimensions and annotations to the views
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

CATIA Dymola Behavior Modeling Essentials

Course Code	CAT-en-DBD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Dynamic Systems Designers
Description	This course will teach you how to model and simulate the dynamic behavior of a multi-engineering system. You will learn how to search, open and manage the Dymola Behavior libraries. You will also learn how to manage the link between a logical component and a Dymola model.
Objectives	Upon completion of this course you will be able to: - Search and open the Dymola behavior library - Edit and simulate an existing dynamic behavior model - Create a new dynamic model - Insert the model into a functional or logical component - Generate the Dymola model from the mechanism - Simulate the logical component with a behavior in the Functional & Logical Design app
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Functional & Logical Design fundamentals.
Available Online	Yes

CATIA Electrical Systems Design Essentials

Course Code	CAT-en-ELE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Electrical Engineers and Electrical Schematics Designers new to Electrical System Design using the 3DEXPERIENCE platform.
Description	This course will teach you to create and manage various elements of an electrical system diagram in the 3DEXPERIENCE platform. This will help you in designing the electrical systems. You will work with catalogs to place the electrical 2D component symbols and route the cables from the electrical cable libraries. It will also teach you how to check and analyze the electrical system connectivity and generate reports.
Objectives	Upon completion of this course you will be able to: - Place electrical component symbols - Route cables - Update component properties - Adjust network layout - Annotate cables - Check electrical systems connectivity - Generate reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with CATIA Functional and Logical Design Fundamentals.
Available Online	Yes

CATIA Engineering Templates Reuse Essentials

Course Code	CAT-en-KT1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	30 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	In this course, you will learn how to create customized features by reusing the power copy and user feature.
Objectives	Upon completion of this course you will be able to: - Create customized features using templates.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Functional and Logical Design Fundamentals

Course Code	CAT-en-FLE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	System Architecture Designers
Description	This course will teach you the basic concepts of systems engineering and the RFLP approach. You will learn how to create the Requirement, Functional architecture and Logical architecture. You will learn to add 3D representation for system components. You will also learn how to create and edit the implement relations.
Objectives	Upon completion of this course you will be able to: - Explain systems engineering and the RFLP approach - Define and formalize data using the Functional & Logical Design app - Create implement relations between different RFLP objects - Insert the physical representation of the system - Use the search and navigation tools for the RFLP objects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Functional Plastic Parts Essentials

Course Code	CAT-en-FMP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Plastic Part Designers and Molded Part Designers
Description	This course will teach you how to use the Functional Plastic Parts app to create molded parts. You will also learn how to create a core and a cavity using styling data. You will be able to create a detailed design by adding holes, stiffening ribs, bosses and additional fixtures. You will also be able to modify the design and complete the final part with additional draft and fillet features.
Objectives	Upon completion of this course you will be able to: - Create a molded plastic part - Add holes and protected areas - Add ribs and bosses
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the Part Design app.
Available Online	Yes

CATIA Generative Wireframe and Surface Essentials

Course Code	CAT-en-GS1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use the Generative Wireframe and Surface app to create curves and surfaces. You will learn how to assemble, re-limit and connect the geometries smoothly. You will also learn how to analyze the wireframe and the surface quality and rectify the detected defects.
Objectives	Upon completion of this course you will be able to: - Create curves and improve the quality of the imported wireframes - Create surfaces based on the wireframe geometries - Assemble, re-limit and connect the surfaces smoothly to achieve the topology - Analyze the surface quality and heal the defects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Mechanical Design Expert

Course Code	CAT-en-3DE-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	This course will introduce you to complex modeling techniques. You will use advanced sketch-based and surface-based features to design parts and learn how to improve productivity by reusing existing features. You will also see how to design a product architecture and manage complex assembly structures, using advanced features to design parts within an assembly environment. Finally, you will learn how to analyze interferences and then create an assembly layout using advanced tools to dress-up and annotate the final drawing.
Objectives	Upon completion of this course you will be able to: - Create and manage complex parts - Create fully parameterized models - Create re-usable features - Analyze interferences, component links and relations - Manage complex product structures - Design new parts within a product - Create large assembly layouts with tables and bill of materials
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course

CATIA Mechanical Design Expert

	and in addition, they should be familiar with the Mechanical Design Fundamentals.
Available Online	Yes

CATIA Mechanical Design Fundamentals

Course Code	CAT-en-3DF-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	Upon completion of this course you will be able to: - Create a new PLM object - Create and constrain 2D sketches - Complete a 3D model using features - Review and edit the features - Create parameters and formulas in the 3D model - Create a new product and add components to it - Move the components within a product by positioning them using assembly constraints - Create simple projection views and section views of 3D parts - Position the views on a drawing sheet - Add dimensions and annotations to the views - Finalize the drawing sheet by adding borders and title blocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Mechanical Design Fundamentals

Available Online	Yes

CATIA Mechanical Systems Design Essentials

Course Code	CAT-en-KIM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create the architecture of a mechanism using simple wireframe elements and then complete the mechanism by adding 3D representations. You will also learn how to create a more complex mechanism using existing mechanisms, and finally how to animate the result.
Objectives	Upon completion of this course you will be able to: - Create a new mechanism - Manage the mechanism behavior - Include alternative representations to complete the mechanism - Create a new macro mechanism from existing sub-mechanisms - Animate the mechanism
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with the Assembly Design app.
Available Online	Yes

CATIA Mechanical Systems Experience

Course Code	CAT-en-KIN-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Design Engineers
Description	This course will teach you how to define a behavior by manually recording an animation and by using laws. You will also learn how to include the analysis of measurements and accelerations. Furthermore, you will learn how to generate traces, swept volumes and snapshots which can be used while reviewing the simulation results.
Objectives	Upon completion of this course you will be able to: - Create a scenario manually or by using laws - Include measurement and interference analyses - Generate results - Create snapshots for a review - Export the final simulation
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with Mechanical Systems Design in CATIA.
Available Online	Yes

CATIA Natural Assembly Essentials

Course Code	CAT-en-LCP-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	This course will teach you how to create and manage product structures. You will explore a product and modify its structure by adding new products and exploding existing products. You will then scan the structure to activate a working product level, search for and add existing parts and use constraints to position the parts. Finally, you will create a new sub-product from a components list and use it to complete the product.
Objectives	Upon completion of this course you will be able to: - Explore a product and modify its structure using Natural Assembly - Select the product levels using the Ladder functionality - Search for a product and insert it in an existing assembly - Position the parts using constraints - Create a new sub-product from a component's list and use it to complete the product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Natural Assembly Essentials

Available Online	Yes

CATIA Natural Shape Essentials

Course Code	CAT-en-LSP-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Conceptual Designers, Stylists, Simulation and Manufacturing Engineers
Description	This course will introduce you to the CATIA Natural Shape app and its unique working environment. You will learn how to use the app to conceptualize, create and modify mechanical parts and shapes. The course features short-duration demos followed by exercises which will allow you to practice. You will also learn the related theory, tips and recommendations while performing the exercises.
Objectives	Upon completion of this course you will be able to: - Create a conceptual design directly in 3D - Use the hybrid design environment to conceptualize your designs - Work on the structure to create the 3D parts - Navigate through the structure and position the parts - Reuse the existing designs in the 3D models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Part Design Expert

Course Code	CAT-en-PDG-A-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	7 hours
Course Material	English
Level	Advanced
Audience	Mechanical and Sheet Metal Designers
Description	This course will introduce you to complex 3D modeling techniques, using advanced sketch-based and surface-based features. You will learn how to manage complex part structures and how to improve productivity by reusing existing features. Finally, you will learn how to use parameters and tables to drive the design of a model.
Objectives	Design parts with complex geometries - Create and manage robust part structures - Create fully parameterized models - Create re-usable features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and be familiar with CATIA Part Design fundamentals.
Available Online	Yes

CATIA Part Design Fundamentals

Course Code	CAT-en-PDG-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create a 3D model using the CATIA Part Design app. You will learn how to use different feature-based tools to build a 3D model. You will also learn how to add parameters, then review, measure and modify a model.
Objectives	Upon completion of this course you will be able to: - Create new parts - Create and constrain 2D sketches - Complete a 3D model using basic features - Parameterize a model - Review and measure a model - Reuse existing features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Piping and Tubing Systems Design Essentials

Course Code	CAT-en-PLE-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Piping or Tubing Schematic Designers
Description	This course will teach you how to create piping and instrumentation diagrams (P&ID). You will learn how to place an equipment in the diagram with multiple graphic representations. You will also learn how to connect them and place in-line components. Finally, you will learn how to add annotations, review the design and make the necessary modification.
Objectives	Upon completion of this course you will be able to: - Route pipe or tube lines - Position piping or tubing parts and equipment - Adjust the design of a piping or a tubing network - Validate the piping and tubing design - Prepare the piping and tubing design for manufacturing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Drafting.
Available Online	Yes

CATIA Quality Rules Reuse Essentials

Course Code	CAT-en-KE1-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	5 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will show you how to share corporate knowledge stored in the rule bases and leverage it across the company to ensure design compliance with the established standards. You will also learn to create reports and manage their template.
Objectives	Upon completion of this course you will be able to: - Automate the design modifications - Analyze and create reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Report Generation Essentials

Course Code	CAT-en-RGR-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	System Architecture Designer, Discipline Architects, Project Managers, Technical Writers
Description	This course will teach you how to generate output format objects and manage the output format documents. Also, you will learn to generate report objects and manage report documents.
Objectives	Upon completion of this course, you will be able to: - Configure your own environment - Create and manage report output format - Generate reports based on platform data
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE platform course. Additionally, they should be familiar with systems engineering.
Available Online	Yes

CATIA Systems Architecture Design Advanced

Course Code	CAT-en-SAD-A-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Advanced
Audience	Systems Multi-Views Architect
Description	This course will teach you the basic concepts of the Modeling Methodology for Systems (MMS). You will learn about the 19 views of the methodology and the interactions between different layers. You will also study about creating different representations of a systems.
Objectives	Upon completion of this course, you will be able to: - Learn the Modeling Methodology for Systems (MMS) - Analyze the system under development with different point of views - Implement the methodology using the 3DEXPERIENCE platform
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the functional and logical design and systems architecture design fundamentals.
Available Online	Yes

CATIA Systems Architecture Design Fundamentals

Course Code	CAT-en-SAD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Systems Multi-Views Architect
Description	This course will teach how to create multiple views to represent the same system in the different contexts using state machine diagram and use case diagram.
Objectives	Upon completion of this course you will be able to: - Create a use case diagram of a system - Create a state machine diagram of a system - Create function chain views and context diagrams
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Functional & Logical Design fundamentals.
Available Online	Yes

CATIA Systems Traceability Dashboarding Essentials

Course Code	CAT-en-TRA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	System Traceability Designers
Description	This course will teach you how to use the Systems Traceability Dashboarding app to ensure end-to-end traceability and impact analysis on heterogeneous set of system models.
Objectives	Upon completion of this course you will be able to: - Analyze traceability and analyze impact - Create scope links to enhance coverage - Create additional objects using external tool (OSLC) - Collaborate using model annotation and review - Compare old and new models to identify modifications
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

Gateway to the 3DEXPERIENCE platform

Course Code	CAT-en-GTX-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course is the entry point to the 3DEXPERIENCE platform. Its purpose is to teach you how to connect to the platform, access your work environment, navigate, search, work on the data, manage your projects, manage the dashboard, collaborate with your peers and share content in communities. You will also learn about the latest modifications to the user interface and the new functionalities that are added to the 3DEXPERIENCE platform.
Objectives	Upon completion of this course, you will be able to: - Connect to the 3DEXPERIENCE platform and use the user interface - Access your Dashboard - Use the 6WTags for searching content - Share various documents with other users through 3DSpace - Use standard menus and commands - Explain the functionalities of various apps in the 3DEXPERIENCE platform - Import new data and export it as 3DXML files - Search for a 3D data using different methods - Explore and open 3D data - Manipulate the tree - Filter data

Gateway to the 3DEXPERIENCE platform	
Prerequisites	There are no prerequisites for this course.
Available Online	Yes

Transition to the 3DEXPERIENCE platform for Mechanical Designers

Course Code	CAT-en-3DMTVS-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers working on cloud. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

Transition to the 3DEXPERIENCE platform for Mechanical Designers

	They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Course Code	CAT-en-3DMT-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	This course addresses the needs of Mechanical Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform, insert the part in a product then position and constrain it. You will learn how to assign material properties and compute weight, then complete a simple drawing. Finally, you will learn how to create a new part version, replace the original part and update the product. More advanced topics will also be covered: they will teach you how to manage complex product structures, create product features, manage catalogs and analyze assemblies.
Objectives	Upon completion of this course, you will be able to: - Create new products and parts - Insert a part in a product and position it - Apply materials to parts - Calculate the weight of a product - Insert and complete a drawing - Create a new part version - Replace a part and update a product - Design parts in context - Create assembly features and catalogs - Analyze the assemblies

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design.
Available Online	Yes

What's New for Dynamic Systems Designers

Course Code	CAT-en-WSDY-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Update
Audience	Dynamic Systems Designers
Description	This course introduces you to the enhancements and new functionalities in the Dynamic Systems Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Dynamic Systems Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Dynamic Systems Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Mechatronic Systems Designers

Course Code	CAT-en-WSMQ-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	9.5 hours
Course Material	English
Level	Update
Audience	Mechatronic Systems Designers
Description	This course introduces you to the enhancements and new functionalities in the Mechatronic Systems Designer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Mechatronic Systems Designer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Mechatronic Systems Designer's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

DELMIA
Industrial Engineering

DELMIA Additive Part Preparation Essentials

Course Code	DEL-en-APF-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DPrinter Programmers, Product Designers
Description	This course will teach you how to define the build setup to produce a part. It will also teach you how to define the build layout and prepare the part for additive manufacturing process. Further, you will learn how to generate the slicing path for the part and export the part into an output file.
Objectives	Define the infrastructure to produce a part - Define the build layout - Generate a slicing path for the part - Export the output
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

DELMIA Equipment Design Essentials

Course Code	DEL-en-DBG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Design Engineers and Device Builders
Description	This course will teach you how to create engineering connections and kinematic mechanism for a device. You will learn how to generate device specific (Robot and NC Machine) resources. You will also learn how to define various attributes such as travel limits, home positions, ports and mount points for a device.
Objectives	Upon completion of this course you will be able to: - Create engineering connections - Generate device resources using kinematic mechanisms - Define Robot and NC Machine attributes
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with kinematic mechanics.
Available Online	Yes

DELMIA Equipment Simulation Essentials

Course Code	DEL-en-WU1-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Design Engineers, Simulation Engineers
Description	The DELMIA Equipment Simulation Essentials course will teach you to define and manage motion groups. Then, it will teach you to define a control device. You will also learn to validate mechanism motions of an industrial equipment.
Objectives	Upon completion of this course you will be able to: - Define and manage motion groups - Insert and position controller - Validate mechanism motions
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with kinematic mechanics.
Available Online	Yes

DELMIA Ergonomics at Work Essentials

Course Code	DEL-en-MHT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Work Safety Engineers
Description	DELMIA Ergonomics at Work course will teach you how to create a work environment for a simulation activity. You will also learn how to create fundamental and complex multi-phase macro simulation activities and to simulate a manikin in a work environment.
Objectives	Upon completion of this course you will be able to: - Prepare the Simulation environment to create activities - Create Macro Simulation Activities - Simulate a manikin in a work environment
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE platform course. They should also have completed the DELMIA Ergonomics Evaluation Essentials course.
Available Online	Yes

DELMIA Ergonomics Evaluation Essentials

Course Code	DEL-en-HBR-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	10 hours
Course Material	English
Level	Fundamental
Audience	Ergonomics Specialists
Description	The DELMIA Ergonomics Evaluation Essentials course will teach you to create a manikin with required attributes. Then, it will also teach you how to set posture of a manikin and define kinematics on it. You will also learn to edit and analyze the manikin's anthropometry.
Objectives	Upon completion of this course you will be able to: - Create and position a manikin - Posture a manikin - Define manikin kinematics - Manage manikin attributes - Define anthropometry - Analyze manikin posture
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

DELMIA Factory Flow Simulation Essentials

Course Code	DEL-en-SLA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, System Planners and Resource Planners
Description	This course will teach you how to create, define and simulate a production system to optimize production performance. You will learn how to create a production system that includes products, resources and product flows using various zones and activities. You will also learn how to simulate a factory flow and display the simulation results using charts and generate reports.
Objectives	Upon completion of this course you will be able to: - Define a factory flow - Create various activities - Define decision and resource zones - Assign resources to zones - Simulate a production system - Generate and analyze simulation results
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of factory layout.
Available Online	Yes

DELMIA Machining Validation Essentials

Course Code	DEL-en-MSG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	This course will teach you how to simulate an NC machine using tool path and NC code. You will learn how to create probes in the simulation object environment and use them to detect the clashes that occur during a machine simulation. You will also learn how to perform a fault analysis to detect, analyze and eliminate the clashes.
Objectives	Upon completion of this course you will be able to: - Create a simulation object - Simulate the machine using tool path and NC code - Create Probes to detect clashes during the machine simulation - Analyze and eliminate the clashes
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of machining and the DELMIA Prismatic Machining app.
Available Online	Yes

DELMIA Manufacturing Context Builder Essentials

Course Code	DEL-en-MSB-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Process Planners
Description	In this course, you will learn to explore the PPR context. You will also learn to manage the documents in the spreadsheet view. You will learn to use the Compare command to compare structures of different versions of a PPR object like products, manufactured items, resources, systems or operations.
Objectives	Upon completion of this module you will be able to: - Explore the PPR context - Manage the documents in the spreadsheet view - Manage the PPR Smart Completion - Navigate Relations on a Product - Compare structures of different versions of a PPR object
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Process Planning.
Available Online	Yes

DELMIA Milling Machining Essentials

Course Code	DEL-en-SMG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Numerical Control (NC) Programmers
Description	This course will teach you how to define and manage NC programs dedicated to machining parts that are designed with surface or solid geometry. You will learn how to define the 3-Axis Roughing, Semi-finishing and Finishing operations. You will also learn how to improve productivity in mould and die machining using the various functionalities of 3-Axis Surface Machining.
Objectives	Upon completion of this course you will be able to: - Define 3-Axis Surface Machining operations - Define a Rework Area - Create Machining Features - Analyze and modify the Tool path
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.
Available Online	Yes

DELMIA Mill-Turn Machining Essentials

Course Code	DEL-en-LMG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	This course will teach you how to define various turning operations to machine cylindrical parts. You will learn how to define multi-spindle and multi-turret machines, and use multiple turrets simultaneously to machine a part. You will also learn how to perform the part transfer activity using the multi-spindle machine to complete the machining on both sides of a part without any manual intervention. This course will also teach you how to create milling operations and multi-axis milling operations using the mill-turn machine.
Objectives	Define the machining infrastructure - Define the turning operations - Define the milling operations using the multi-slide machine - Define multi-axis machining operations - Define multi-setups and multi-part machining - Replay and simulate the tool paths - Generate the Numerical Control (NC) output
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of machining.
Available Online	Yes

DELMIA Multi-Axis Machining Essentials

Course Code	DEL-en-MMG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Numerical Control (NC) Programmers
Description	This course will teach you how to use the common functionalities available in the machining apps of DELMIA. You will learn how to define and manage NC programs dedicated to machining parts that are designed with surface or solid geometry. This course also teaches you how to generate high quality NC programs for machining complex 3D parts and free-form shapes using advanced machining techniques. You will learn how to perform 2.5 to 5-Axis machining operations.
Objectives	Upon completion of this course you will be able to: - Define the infrastructure required for machining - Define 3-Axis surface machining operations - Define multi-axis finishing and contouring operations - Define multi-pockets machining operations - Define multi-axis helix machining operation
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining
Available Online	Yes

DELMIA Plant Layout Design Essentials

Course Code	DEL-en-MRL-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	5.5 hours
Course Material	English
Level	Fundamental
Audience	Plant Layout Designer
Description	In this course you will learn how to use a 2D drawing to quickly realize a 3D layout. You will learn how to select a resource from a catalog of parametric resources. You will also learn how to position the resources in the 3D layout. You will also learn how to move, snap and align the resources.
Objectives	Upon completion of this course you will be able to: - Create a layout design for a manufacturing plant - Define the resource structure - Use the parametric resources from a catalog - Position and manipulate resources in the 3D environment - Define and validate the shop floor layouts
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

DELMIA Powder Bed Fabrication Essentials

Course Code	DEL-en-PBF-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	3D Printer Programmers. Product Designers
Description	This course will teach you how to define the build setup to produce a part. It will also teach you how to define the build layout and prepare the part for additive manufacturing process. Further, you will learn how to generate the slicing and scan path for the part. Then, you will learn how to analyze the scan path and export the part into an output file.
Objectives	Upon completion of this course, you will be able to: - Define the infrastructure to produce a part - Define the build layout - Generate a slicing and scan path for a part - Analyze the scan path - Export the output
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

DELMIA Prismatic and Turning Machining Essentials

Course Code	DEL-en-LMG1-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	This course will teach you how to define various turning operations to machine cylindrical parts. You will learn how to define multi-spindle and multi-turret machines, and use multiple turrets simultaneously to machine a part. You will also learn how to perform the part transfer activity using the multi-spindle machine to complete the machining on both sides of a part without any manual intervention. This course will also teach you how to create milling operations using the mill-turn machine.
Objectives	Upon completion of this course you will be able to: - Define the machining infrastructure - Define the turning operations - Define the milling operations using the multi-slide machine - Define multi-setups and multi-part machining - Replay and simulate the tool paths - Generate the Numerical Control (NC) output
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of machining.
Available Online	Yes

DELMIA Prismatic Machining Advanced

Course Code	DEL-en-PMG-A-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Advanced
Audience	NC Programmers
Description	This course will teach you how to manage the NC resources and associate a user representation to a tool. It will also teach you to copy and transform the machining operations to machine similar profiles in a part. You will learn about the automation processes and how to optimize a program using the Auto Sequencing functionality. You will also learn how to save a video simulation result into a 3DPart.
Objectives	Upon completion of this course you will be able to: - Create the tools catalog to manage tools and tool assemblies - Associate a user representation to a tool assembly - Create and instantiate a Machining Process catalog - Create a Machining Template for Resources and Programming - Optimize a program using the Auto Sequencing functionality - Copy and transform the machining operations to machine similar profiles in a part - Customize a PP Word Table - Save the video simulation result into a 3DPart
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the Prismatic machining in DELMIA.

DELMIA Prismatic Machining Advanced

Available Online	Yes

DELMIA Prismatic Machining Fundamentals

Course Code	DEL-en-PMG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	This ccourse will teach you how to use the common functionalities available in the machining apps of DELMIA. It will also teach you the fundamentals of creating and simulating a tool path. You will learn how to create tool paths for 2 and 2.5-axis machining operations. You will also learn how to create probes in the simulation object and how to simulate the machines, detect clashes and analyze them.
Objectives	Upon completion of this course you will be able to: - Define the infrastructure required for machining - Create tools and tool assemblies - Define prismatic machining operations - Replay and simulate tool paths - Simulate a machine using a simulation object - Generate the Numerical Control (NC) output"
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the fundamentals of machining.
Available Online	Yes

DELMIA Process Flow Simulation Essentials

Course Code	DEL-en-PSU-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, System Planners and Resource Planners
Description	In this course, you will learn how to assess the performance of production systems and fine-tune it. You will learn how to display the future events scheduled during the simulation. You will also learn how to identify bottlenecks early in the planning process which helps to maximize production rates.
Objectives	Upon completion of this course you will be able to: - Assess the performance of the production systems. - Simulate and analyze multiple production scenario. - Monitor the state of the systems during the simulation. - Recognize and eliminate potential bottlenecks during the product flow.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with process planning.
Available Online	Yes

DELMIA Robot Arc Simulation Essentials

Course Code	DEL-en-AWG1-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Robotics Engineers and Simulation Engineers
Description	This course will teach you how to create robotics arc welding trajectories, tasks and programs in the offline digital environment. You will learn how to create applicative profiles. You will also learn to create a seam search trajectory.
Objectives	Upon completion of this course you will be able to: - Create an applicative profile - Define an arc welding profile - Create the seam search trajectory - Create an arc welding task - Create the position program
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Robotics Simulation.
Available Online	Yes

DELMIA Robot Programming Essentials

Course Code	DEL-en-OLP-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6.5 hours
Course Material	English
Level	Fundamental
Audience	Robotics Engineers, Offline Programmers
Description	This course will teach you how to import a robot program and modify it using the Native Robot Language (NRL). You will learn how to use the NRL to teach a robot. You will also learn how to calibrate the different workcell components and the robot signature to compensate for signature inaccuracies.
Objectives	Upon completion of this course you will be able to: - Upload and download robot programs - Teach the robot using the Native Robot Language - Import and export the tag group data - Calibrate the workcell components - Calibrate the robot signature
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Students should be familiar with Robot Simulation.
Available Online	Yes

DELMIA Robot Simulation Essentials

Course Code	DEL-en-WSU-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Robotics Engineers and Simulation Engineers
Description	This course will teach you how to create, program, simulate and validate an entire Robot workcell for any manufacturing industry. You will learn how to create a robot task and how to teach the Robot to perform the task. You will also learn how to create an Input/Output (IO) connection and validate it against the available organizational resources.
Objectives	Upon completion of this course you will be able to: - Define a simulation state - Create and manipulate a tag - Generate a robot task - Teach the robot how to perform a task - Create and validate an Input/Output (IO) connection - Validate a workcell simulation
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Mechanical Design concepts.
Available Online	Yes

DELMIA Robot Spot Simulation Essentials

Course Code	DEL-en-SWG1-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Spot Welding Engineers
Description	This course will teach you how to create robotic spot welding trajectories and tasks in an offline digital environment. You will learn how to define the spot welding motion parameters using a spot weld profile and how to pick the correct weld gun. You will also learn how to teach the robot to perform a spot welding task.
Objectives	Upon completion of this course you will be able to: - Analyze the spot welding feasibility - Generate the manufacturing specifications - Generate a spot welding task - Teach the robot to perform a spot welding task
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Robotic Simulation in DELMIA.
Available Online	Yes

DELMIA Robot Surface Simulation Essentials

Course Code	DEL-en-RSF-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Robotics Engineers and Simulation Engineers
Description	This course will teach you how to setup a paint cell with required resources and prepare it for painting an object. It will also teach you how to create paint and conveyor tracking profiles. Further, you will learn how to deposit the paint on a product and analyze the paint deposition results.
Objectives	Upon completion of this course you will be able to: - Prepare a paint cell - Create conveyor and paint profiles - Create a surface trajectory - Simulate the paint deposition on a part - Analyze the paint deposition results
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Robotics Simulation.
Available Online	Yes

DELMIA V5 to 3DEXPERIENCE Machining Transition

Course Code	DEL-en-PMGT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	This course will teach you what are the differences between the Machining PPR Structure of CATIA V5 and DELMIA 3DEXPERIENCE and how to migrate the CATIA V5 Machining data to DELMIA 3DEXPERIENCE. You will also learn how to create a PPRContext, assign an NC Machine, insert and mount an NC Machine accessory, and then mount the workpiece. This course will also teach you how to define a tool assembly and its advanced parameters. You will learn how to define a Prismatic Machining Operation, replay the toolpath, and generate the NC Output.
Objectives	Upon completion of this course you will be able to: - Use the DELMIA 3DEXPERIENCE Machining product to define a Machining Process - Create Tools, Holders and Tool Assemblies - Define a Machining Operation - Generate a Numerical Control (NC) Output - Store and retrieve a Machining Process from the 3DEXPERIENCE database - Migrate CATIA V5 Machining objects to DELMIA 3DEXPERIENCE"
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.

DELMIA V5 to 3DEXPERIENCE Machining Transition

	Additionally, they must be experienced users of the CATIA V5 Machining product.
Available Online	Yes

What's New for 3D Design Manufacturing Engineers

Course Code	DEL-en-WDME-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	10.5 hours
Course Material	English
Level	Update
Audience	3D Design Manufacturing Engineers
Description	This course introduces you to the enhancements and new functionalities in the 3D Design Manufacturing Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the 3D Design Manufacturing Engineer role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the 3D Design Manufacturing Engineer's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Industrial Engineer Essentials

Course Code	DEL-en-WIEN-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1 hours
Course Material	English
Level	Update
Audience	Industrial Engineers
Description	This course introduces you to the new and enhanced functionalities of the Industrial Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Industrial Engineer role - - Put in practice the enhancements that you have learnt on the operations that you perform under this role
Prerequisites	Students attending this module must be familiar with DELMIA Factory Flow Simulation in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for NC Machine Code Validation Specialists

Course Code	DEL-en-WNMV-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	30 hours
Course Material	English
Level	Update
Audience	NC Programmers, Simulation Engineers
Description	This course introduces you to the enhancements and new functionalities of the NC Machine Code Validation Specialist role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the NC Machine Code Validation Specialist role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Machining Validation in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for NC Multi-Axis Milling and Turning Programmers

Course Code	DEL-en-WNMT-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1 hours
Course Material	English
Level	Update
Audience	NC Programmers
Description	This course introduces you to the enhancements and new functionalities of the NC Multi-Axis Milling & Turning Programmer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the NC Multi-Axis Milling & Turning Programmer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Mill-Turn Machining in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for NC Prismatic and Turning Programmers

Course Code	DEL-en-WNPT-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1 hours
Course Material	English
Level	Update
Audience	NC Programmers
Description	This course introduces you to the enhancements and new functionalities of the NC Prismatic and Turning Programmer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the NC Prismatic and Turning Programmer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Prismatic Milling & Turning Machining in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for NC Prismatic Programmers

Course Code	DEL-en-WNPM-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Update
Audience	NC Programmers
Description	This course introduces you to the enhancements and new functionalities of the NC Prismatic Programmer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the NC Prismatic Programmer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Prismatic Machining in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for Robotics Arc Engineers

Course Code	DEL-en-WRAE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Update
Audience	Robotics Engineers and Simulation Engineers
Description	This course introduces you to the enhancements and new functionalities in the Robotics Arc Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Robotics Arc Engineer role - - Put in practice the enhancements that you have learnt on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Robot Arc Welding Simulation in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for Robotics Engineers

Course Code	DEL-en-WRTS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	30 hours
Course Material	English
Level	Update
Audience	Students attending this course must be familiar with DELMIA Robot Simulation in the 3DEXPERIENCE R2017x release.
Description	This course introduces you to the enhancements and new functionalities in the Robotics Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Robotics Engineer role - - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Robotics Engineers
Available Online	Yes

What's New for Robotics Offline Programmers

Course Code	DEL-en-WROL-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Update
Audience	Robotics Engineers, Offline Programmers
Description	This course introduces you to the enhancements and new functionalities in the Robotics Offline Programmer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Robotics Offline Programmer role - - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Robot Programming in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for Shop Floor Equipment Engineers

Course Code	DEL-en-WEQE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Update
Audience	Equipment Engineers and Device Builders
Description	This course introduces you to the enhancements and new functionalities of the Shop Floor Equipment Engineers role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Shop Floor Equipment Engineer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Equipment Design in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for Shop Floor Equipment Simulation Engineers

Course Code	DEL-en-WEQS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	45 hours
Course Material	English
Level	Update
Audience	Design Engineers, Simulation Engineers
Description	This course introduces you to the enhancements and new functionalities in the Shop Floor Equipment Simulation Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Shop Floor Equipment Simulation Engineer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Equipment Simulation in the 3DEXPERIENCE R2017x release.
Available Online	Yes

DELMIA
Manufacturing Engineering

DELMIA Assembly Evaluation Essentials

Course Code	DEL-en-FIT-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	5.5 hours
Course Material	English
Level	Fundamental
Audience	Simulation Engineers, Industrial Engineers and Mechanical Engineers
Description	This course will teach you how to create process simulations to perform assembly feasibility studies. You will learn how to identify potential assembly issues and communicate them directly to the product designers in early product development stages. You will also learn how to enhance the simulations to optimize the assembly processes.
Objectives	Upon completion of this course you will be able to: - Determine the assembly feasibility of manufactured parts - Define, simulate and review the entire process to identify potential design issues - Create product assembly simulation to analyze the impact on the shop floor - Perform the assembly sequence analysis - Analyze multiple assembly scenarios to determine the most optimal process
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course. They should also be familiar with the Mechanical Engineering concepts.
Available Online	Yes

DELMIA Assembly Path Optimization Essentials

Course Code	DEL-en-APO-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Simulation Engineers, Industrial Engineers and Mechanical Engineers
Description	This course will teach you how to create process simulations to perform assembly feasibility studies. You will learn how to identify potential assembly issues and communicate them directly to the product designers in early product development stages. You will also learn how to enhance the simulations to optimize the assembly processes.
Objectives	Upon completion of this course you will be able to: - Define, simulate and review the entire process to identify potential design issues. - Create product assembly simulation to analyze the impact on the shop floor. - Perform the assembly sequence analysis. - Analyze multiple assembly scenarios to determine the optimal process. - Determine the assembly feasibility of manufactured parts
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE platform course. They should also be familiar with the DELMIA Assembly Evaluation Essentials.
Available Online	Yes

DELMIA Equipment Allocation Essentials

Course Code	DEL-en-MLB-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, Resource Planners
Description	This course will teach you how to create and manage resource structure. You will learn how to assign an operation to a resource by using different assignment techniques. You will also learn how to balance operations between two or more working resources. Finally, you will learn how to simulate a plant to verify its feasibility.
Objectives	Upon completion of this course you will be able to: - Manage the scope between the resources and the systems - Assign resources to operations - Plan for capacity using the resource utilization Gantt chart - Define the working position - Validate the resource plant
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with defining process planning in DELMIA.
Available Online	Yes

DELMIA Manufactured Item Definition Essentials

Course Code	DEL-en-PRD-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers, Process Planners
Description	This course will teach you how to define and manage the manufactured product structure. You will also learn how to link the product components to each step of the plan using the simple drag-and-drop technique. Further, you will learn how to create catalogs and reuse a manufacturing bill of materials template.
Objectives	Upon completion of this course you will be able to: - Define a manufacturing bill of materials - Reuse the manufacturing bill of materials template - Associate the manufacturing bill of materials to a product structure using scope links - Create assemblies and sub-assemblies
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

DELMIA Manufacturing Context Builder Essentials

Course Code	DEL-en-MSB-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Process Planners
Description	In this course, you will learn to explore the PPR context. You will also learn to manage the documents in the spreadsheet view. You will learn to use the Compare command to compare structures of different versions of a PPR object like products, manufactured items, resources, systems or operations.
Objectives	Upon completion of this module you will be able to: - Explore the PPR context - Manage the documents in the spreadsheet view - Manage the PPR Smart Completion - Navigate Relations on a Product - Compare structures of different versions of a PPR object
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Process Planning.
Available Online	Yes

DELMIA Planning Structure Essentials

Course Code	DEL-en-PRR-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers and Process Planners
Description	This course will teach you how to define and manage the manufactured product structure, routings and resource allocation in one single and simple interface. You will learn how to perform line balancing across stations and lines. You will also learn how to detect issues early in the process plan using 3D validation.
Objectives	Upon completion of this course you will be able to: - Define a manufacturing bill of materials - Reuse the manufacturing bill of materials template - Associate the manufacturing bill of materials to a product structure - Create assemblies and sub-assemblies - Assign parts to sub-assemblies - Define the operation - Assign resources to operations
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

DELMIA Process Planning Essentials

Course Code	DEL-en-MSD-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Process Planners
Description	This course will teach you how to create and manage a process plan. You will learn how to create the scope between the MBOM and the respective system. You will also learn how to perform automatic line balancing and how to manage multi-model in a session.
Objectives	Upon completion of this course you will be able to: - Author system structures and create product flows - Manage system structures and operations - Manage the scope between the MBOM and the system - Assign MBOM to operations - Generate a system structure from the manufacturing item structure - Author operations and add constraints between operations - Assign MBOMs to operations - Analyze the workload and line balancing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with defining the MBOM structure.
Available Online	Yes

DELMIA Time-Motion Study Essentials	
Course Code	DEL-en-STM-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, System Planners and Resource Planners
Description	In this course, you will learn how to use the DELMIA Time-Motion Study app to perform time studies in an efficient and accurate manner. You will learn how to analyze manual work using various measurement techniques. You will also learn how to increase productivity, improve methods, plan efficiently, establish workloads and maximize the use of resources.
Objectives	Upon completion of this course you will be able to: - - Calculate the time required to perform an operation or a set of operations - Determine the workload of an operation - Streamline the operations by identifying and eliminating inefficient methods - Create customized data cards that include company-specific time analysis data
Prerequisites	Students attending this course should have completed the DELMIA Process Planning Essentials course.
Available Online	Yes

DELMIA Work Instructions Essentials

Course Code	DEL-en-WKD-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Simulation Engineers, Process Planners and Manufacturing Engineers
Description	This course will teach you how to create textual instructions and 3D annotations to describe a process and the steps involved in it. You will learn how to complement the textual instructions with electronic documents and images. You will also learn how to deliver the work instructions to the team members on the shop floor through a manufacturing execution system, HTML or printed material.
Objectives	Upon completion of this course you will be able to: - Create textual and 3D work instructions for an operation - Modify, reorder and delete the work instructions - Enrich the work instructions with documents - Add the work instructions to a catalog and reuse them for other operations - Preview the authored instructions in a 3D environment
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course.
Available Online	Yes

What's New for Assembly Simulation Experts

Course Code	DEL-en-WASE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Update
Audience	Simulation Engineers, Industrial Engineers and Mechanical Engineers
Description	This course introduces you to the new and enhanced functionalities of the Assembly Simulation Expert role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Assembly Simulation Expert role - - Put in practice the enhancements that you have learnt and apply them on the operations that you perform under this role
Prerequisites	Students attending this module must be familiar with DELMIA Assembly Evaluation and DELMIA Assembly Path Optimization in the 3DEXPERIENCE R2017x release.
Available Online	Yes

Learning Experience | Course Catalog

What's New for Manufacturing Engineers	
Course Code	DEL-en-WPST-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	Process Planners, Manufacturing Engineers
Description	In this module, you will learn to display the process assembly in the 3D View Panel. You will learn to quickly navigating in the Assignment Manager. You will also learn to split general operation for fine balancing.
Objectives	Upon completion of this module, you will be able to - Describe the impact of the new capabilities on the Process Planner role - Put into practice the enhancements that you have learnt to apply and use them on the operations that you perform under this role
Prerequisites	Students attending this module must be familiar with the basics of the 3DEXPERIENCE platform and EBOM/MBOM concepts.
Available Online	Yes

What's New for Process Planners	
Course Code	DEL-en-WPPL-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Update
Audience	Process Planners, Manufacturing Engineers
Description	This course introduces you to the new and enhanced functionalities of the Process Planner role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to - Describe the impact of the new capabilities on the Process Planner role - Put into practice the enhancements that you have learnt to apply and use them on the operations that you perform under this role
Prerequisites	Students attending this module must be familiar with the basics of the 3DEXPERIENCE platform and EBOM/MBOM concepts.
Available Online	Yes

What's New for Process Simulation Analysts

Course Code	DEL-en-WMAE-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	20 hours
Course Material	English
Level	Update
Audience	Simulation Engineers, Industrial Engineers and Mechanical Engineers
Description	This course introduces you to the new and enhanced functionalities of the Process Simulation Analyst role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Process Simulation Analyst role - - Put in practice the enhancements that you have learnt and apply them to the operations that you perform under this role
Prerequisites	Students attending this module must be familiar with DELMIA Assembly Evaluation Essentials in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for Time Study Analysts	
Course Code	DEL-en-WTMA-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1 hours
Course Material	English
Level	Update
Audience	Process Planners, Time Study Analysts
Description	This course introduces you to the new and enhanced functionalities of the Time Study Analysts role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Time Study Analysts role - - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Time-Motion Study in the 3DEXPERIENCE R2017x release.
Available Online	Yes

What's New for Work Instructions Designers

Course Code	DEL-en-WWKS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	Process planners
Description	This course introduces you to the enhancements and new functionalities of the Work Instructions role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this module, you will be able to: - Describe the impact of the new capabilities on the Work Instructions role - - Put in practice the enhancements that you have learnt on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with DELMIA Work Instructions in the 3DEXPERIENCE R2017x release.
Available Online	Yes

ENOVIA
3DEXPERIENCE platform

What's New for Platform Contributors

Course Code	ENOV-en-WPCS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	45 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Platform Contributor's role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Platform Contributor role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the basics of the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

ENOVIA

Business Network Innovation

ENOVIA Classify and Reuse Essentials

Course Code	ENOV-en-CLRE-F-15-191
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform Users
Description	This course will teach you how to use the ENOVIA Classify and Reuse App to search and view different types of libraries as well as an objects' hierarchy. You will also learn how to manage the objects using these libraries. Based on a combination of videos, theory and simulations, you can take this course in a self-paced learning mode and is self-sufficient. However, if you want to practice, you will find a master exercise at the end of the course.
Objectives	Upon completion of this course, you will be able to: - Search and view different types of Libraries and their related hierarchy. - Search and view General Classes and Folders.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Collaboration and Approvals Essentials

Course Code	ENOV-en-BUPS-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	10 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	This course will teach you the common functionalities used across all ENOVIA apps, which enable you to manage your content as well as collaborate with other members in a team. You will learn how to create workspaces for managing your business related components, such as folders, members and tasks. You will also learn how to create various workflows using routes, subscribe to your task related events, and report issues for objects. Further, you will learn to create documents and version them, while maintaining a record for all its revisions.
Objectives	Upon completion of this course, you will be able to: - Illustrate the structure of ENOVIA Business Process Services - Create and manage your folders - Create workflows - Identify and manage your assigned tasks - Subscribe to various objects and events - Report and resolve issues in objects - Create, track and organize your documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA Collaboration for Microsoft Essentials

Course Code	ENOV-en-COMI-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft app to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using Microsoft applications - Create, manage and synchronize documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Industry Innovation

Course Code	ENOV-en-WCSV-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Industry Innovation role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Industry Innovation role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Industry Innovation role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

ENOVIA

Business Strategy, Planning and Execution

What's New for Project Managers

Course Code	ENOV-en-WDPM-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE Platform Users
Description	This course introduces you to the enhancements and new functionalities in the Project Manager role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Project Manager role - Put in practice the enhancements that you have learned to apply them to the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Project Manager's role in the 3DEXPERIENCE platform 2018x release.
Available Online	Yes

What's New for Project Team Members

Course Code	ENOV-en-WDPJ-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	1 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Project Team Member role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Project Team Member role - Put in practice the enhancements that you have learned to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Project Team Member's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

ENOVIA

Capture and Reuse Engineering Intent

ENOVIA Collaboration for Microsoft Essentials	
Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Collaborative Lifecycle Management Essentials

Course Code	ENOV-en-LIIN-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	CAD designers, engineers in charge of product development
Description	In this course, you will learn how to use the ENOVIA Collaborative Lifecycle Management app to manage the complete lifecycle of an object in order to achieve concurrent engineering. You will also learn to manage the access and ownership of objects for collaboration of members on the same platform.
Objectives	Upon completion of this course you will be able to: - Create a new product structure - Use different sections of the Action bar effectively - Manage the changes in a product structure - Save the product structure in the database
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course
Available Online	Yes

ENOVIA Exchanges Management Essentials

Course Code	ENOV-en-EXCH-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	CAD Designers and Platform Contributors
Description	This course will teach you how to use the import / export tools in 3DEXPERIENCE. You will also manage the mastership between V5 files and 3DEXPERIENCE files.
Objectives	Upon completion of this course, you will be able to: - Import and export 3DXML files - Import and export CATIA V5 files - Manage the Mastership of imported objects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA On-The-Go Essentials

Course Code	ENOV-en-ONGO-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course will teach you how you can work in the offline mode in the 3DEXPERIENCE platform.
Objectives	Upon completion of this course you will be able to: - Work in the offline mode - Return to the online mode - Restore the last session - Create the offline content in the online mode
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA

Customization, Deployment and Application Development

3DEXPERIENCE platform Architecture Essentials

Course Code	ENOV-en-3DXA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	5 hours
Course Material	English
Level	Fundamental
Audience	System Administrators and Application Architects
Description	This course is intended to teach Administrators and Architects about the 3DEXPERIENCE platform architecture, components and capabilities. You will learn about the 3DEXPERIENCE platform logical, storage, software, deployment and network architecture as well as the security features.
Objectives	Upon completion of this course you will be able to: - Describe the 3DEXPERIENCE platform architecture and its major components - Identify the data types in the 3DEXPERIENCE platform - Explain the software stack for the 3DEXPERIENCE platform - Demonstrate the secure infrastructure provided by the 3DEXPERIENCE platform - Discuss the collaboration modes offered by the 3DEXPERIENCE platform
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

Data Model Customization Essentials

Course Code	ENOV-en-MOCU-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM Administrators and Domain Experts
Description	This course will help you to understand the basics of Unified Typing. You will learn how to create specialization packages, specialization extensions and customer extensions using the Specialize Data Model functionality. You will also learn how to create deployment packages and deployment extensions using the Administrate Data Model functionality.
Objectives	Upon completion of this course, you will be able to: - Describe Unified Typing concepts - Create Subtypes and add attributes to it - Create Specialization, Customer and Deployment Extensions - Create Unique Keys - Create Specialization and Deployment Packages - Deploy Packages into the 3DEXPERIENCE platform
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course, Baseline Behavior course and should be familiar with Studio Matrix, Business Modeler and Studio MQL in ENOVIA.
Available Online	Yes

Data Model Development: Studio Business Modeler

Course Code	ENOV-en-TMO3-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform PLM-Administrators and Implementers
Description	This course is intended to teach Administrators how to work with the 3DEXPERIENCE Studio Business applications and how to define the new schema or modify existing schema. The main goal is to learn how to use existing capabilities of the 3DEXPERIENCE platform to perform business administrator tasks.
Objectives	Upon completion of this course you will be able to: - Describe the basics of a 3DEXPERIENCE platform schema - Understand the AEF Schema to customize the data model - Design and implement a 3DEXPERIENCE platform schema using the Business Modeler
Prerequisites	
Available Online	Yes

Data Model Development: Studio Matrix Navigator

Course Code	ENOV-en-TMO1-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform PLM-Administrators and Implementers
Description	This course is intended to teach administrators how to work with 3DEXPERIENCE Studio applications, how to define the new business model or modify existing schema. The main goal is to learn how to use existing capabilities of the 3DEXPERIENCE platform to perform business and system administrator tasks.
Objectives	Upon completion of this course you will be able to: - Describe the 3DEXPERIENCE platform Architecture and its components. - Explain the 3DEXPERIENCE platform Schema and its Data Model. - Use the 3DEXPERIENCE Studio Matrix Navigator to create and edit Business Objects.
Prerequisites	
Available Online	Yes

Data Model Development: Studio MQL

Course Code	ENOV-en-TMO4-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform Business Administrators, System Administrators and Implementers
Description	This course is intended to teach administrators and developers how to test, manage, and modify the data model via MQL (Matrix Query Language). They will also learn how to extract / import data and work with scripts.
Objectives	Upon completion of this course you will be able to: - Understand basic MQL commands - Modify the schema - Create, modify, delete and query business objects - Export and import data - Create MQL scripts
Prerequisites	Students attending this course should be familiar with Studio Matrix Navigator and Business Modeler Studio in ENOVIA.
Available Online	Yes

ENOVIA Collaboration for Microsoft Essentials	
Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA On-The-Go Essentials

Course Code	ENOV-en-ONGO-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course will teach you how you can work in the offline mode in the 3DEXPERIENCE platform.
Objectives	Upon completion of this course you will be able to: - Work in the offline mode - Return to the online mode - Restore the last session - Create the offline content in the online mode
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA
Global Product Development

3DEXPERIENCE 3D Component Designer Essentials

Course Code	ENOV-en-CDR-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Component Designers, Mechanical Designers, CAD users
Description	This course is based on the Power By approach, whereby Designers on all versions and solutions (V5, V6) learn how to leverage the power of the 3DEXPERIENCE platform for their projects and daily work. More specifically, in this course you will learn the various functionalities available with the 3D Component Designer role of the 3DEXPERIENCE platform. The 3D Component Designer connects CATIA V5 file-based CAD users to the 3DEXPERIENCE platform, enabling you to manage product designs and documents directly from the desktop authoring application. Moreover, you can leverage the platform's web-based apps to manage, annotate and visualize designs anywhere, anytime and on any device.
Objectives	Upon completion of this course you will be able to: - Import the data using batch import - Connect to CATIA V5 and modify the design - Create slides and markups - Schedule meeting using XCAD Management App - Browse and create annotations
Prerequisites	Students attending this course must be familiar with the fundamentals of CATIA V5 and should have completed

3DEXPERIENCE 3D Component Designer Essentials

	the Gateway to the 3DEXPERIENCE platform and the 3DEXPERIENCE Business Innovation Essentials courses.
Available Online	Yes

3DEXPERIENCE 3D Product Architect Fundamentals

Course Code	ENOV-en-PAU1-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	3DEXPERIENCE platform users, CAD users
Description	This course is based on the Power By approach, whereby users on all versions and solutions (V5 and V6) learn how to leverage the power of the 3DEXPERIENCE platform for their projects and daily work. More specifically, in this course you will learn the various functionalities available with the 3D Product Architect role of the 3DEXPERIENCE platform. You will also learn how to create and modify a product structure and validate the modifications after reviewing them. The course offers an insight into the functionalities that help you collaborate with your team members using the various web-based applications available with the Product Architect role.
Objectives	In this course, you will learn how to: - Assign tasks to your team members - Explore and visualize products within a web-browser - Create and modify product structure of various components under governance of a change process - Create revisions and manage the lifecycle of the products - Modify the design - Review 3D models - Create and share design reviews

3DEXPERIENCE 3D Product Architect Fundamentals

Prerequisites	Students attending this course must be familiar with the fundamentals of CATIA V5 and should have completed the Gateway to the 3DEXPERIENCE platform and the 3DEXPERIENCE Business Innovation Essentials for CAD Users courses.
Available Online	Yes

3DEXPERIENCE 3D Reviewer Essentials

Course Code	ENOV-en-DRU-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Design Reviewers
Description	The course will teach you the various functionalities available with the 3D Reviewer role of the 3DEXPERIENCE platform. You will learn how to create digital mockup reviews that can be shared with and viewed by designers in real-time. You will learn how to critically analyze a 3D model, highlight issues and communicate solutions using different slides and markups. The course also provides insights on how to access the crucial design information like functional tolerances & annotations
Objectives	Upon completion of this course you will be able to: - Create a review for design validation - Create slides and markups - Measure various geometrical items - Browse and filter annotations
Prerequisites	Students attending this course must be familiar with the fundamentals of CATIA V5 and should have completed the Gateway to the 3DEXPERIENCE platform and the 3DEXPERIENCE Business Innovation Essentials courses.
Available Online	Yes

ENOVIA Collaboration for Microsoft Essentials	
Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Defect Management and Collaboration Essentials

Course Code	ENOV-en-SECO-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Defect Engineers, Defect Managers and Product Managers
Description	This course will teach you about Products, DesignSync systems and Defect Management. You will learn how to connect and import product data from DesignSync. You will also learn how to create the process flows for fixing and reviewing the defects reported against the products.
Objectives	Upon completion of this course you will be able to: - Import a DesignSync module hierarchy as a product hierarchy - Report a Defect against a product revision - Create a Defect Action to fix the defect in a product revision - Generate the Defect Impact Analysis report - Freeze a product and create a new revision
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA Design Review Essentials

Course Code	ENOV-en-REEV-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create different slides for various positions of an assembly to create exploded views. You will also learn how to create sections and measures, and export them as parts or drawings.
Objectives	Upon completion of this course you will be able to: - Create a design review and add markups to it - Create slides and add markers - Create sections and measures - Export sections and measures - Compare 3D Objects and 2D Drawings
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA On-The-Go Essentials

Course Code	ENOV-en-ONGO-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE platform
Description	This course will teach you how you can work in the offline mode in the 3DEXPERIENCE platform.
Objectives	Upon completion of this course you will be able to: - Work in the offline mode - Return to the online mode - Restore the last session - Create the offline content in the online mode
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA Variant Management Essentials: Product Architect

Course Code	ENOV-en-VAMAPDA-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Product Managers, Product Architects, System Engineers, Design Engineers and Marketing Managers
Description	This course will teach you how to use the ENOVIA Variant Management app for creating and managing product configurations. You will learn how to create product portfolios and manage the product variability using various configuration features and rules. You will also learn how to generate a Bill of Materials and associate its parts with the features of a product.
Objectives	Upon completion of this course you will be able to: - Create the product structure - Define product portfolios based on product roadmaps - Create and manage product configurations and design variants - Use Enterprise Changes to track and release features - Generate BOMs
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.

ENOVIA Variant Management Essentials: Product Architect

Available Online	Yes

ENOVIA Variant Management Essentials: Product Manager

Course Code	ENOV-en-VAMAPDM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Product Managers and Marketing Managers
Description	This course will teach you how to use the ENOVIA Variant Management app for creating and managing product configurations. You will learn how to create product portfolios and manage the product variability using various configuration features and rules.
Objectives	Upon completion of this course you will be able to: - Create the product structure - Define product portfolios based on product roadmaps - Create features and rules - Create product configurations
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Product Architects

Course Code	ENOV-en-WPDA-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform Users
Description	This course introduces you to the enhancements and new functionalities in the Product Architect role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Product Architect role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role.
Prerequisites	Students attending this course must be familiar with the Product Architect's role in the 3DEXPERIENCE platform 2018x release.
Available Online	Yes

What's New for Product Managers

Course Code	ENOV-en-WPDM-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE Platform Users
Description	This course introduces you to the enhancements and new functionalities in the Product Manager role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Product Manager role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Product Manager's role in the 3DEXPERIENCE platform 2018x release.
Available Online	Yes

ENOVIA

Intelligent V + R Product Configurations

ENOVIA IP Classification Essentials

Course Code	ENOV-en-PACL-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	11 hours
Course Material	English
Level	Fundamental
Audience	Classification Managers, Securities Services Managers, Technical Writers, Business Administrators and System Administrators
Description	This course will teach you how to use the ENOVIA IP Classification app to create document libraries, part libraries and general libraries and use these libraries for organizing the parts and documents. You will learn how to store, manage and access documents and other files within the application in a collaborative work environment.
Objectives	Upon completion of this course, you will be able to: - Create different types of libraries and their related hierarchies - Create and manage documents and parts - Classify the library objects based on their features - Use the Classification functionality
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Classification Managers

Course Code	ENOV-en-WCCM-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	30 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Classification Manager role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Classification Manager role. - Use the enhancements that you have learnt.
Prerequisites	Students attending this course must be familiar with the Classification Manager role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

What's New for Product Engineers

Course Code	ENOV-en-WPDE-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Product Engineer role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Product Engineer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Product Engineer's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

ENOVIA

IP Classification and Protection

ENOVIA Collaboration for Microsoft Essentials	
Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA IP Classification Essentials

Course Code	ENOV-en-PACL-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	11 hours
Course Material	English
Level	Fundamental
Audience	Classification Managers, Securities Services Managers, Technical Writers, Business Administrators and System Administrators
Description	This course will teach you how to use the ENOVIA IP Classification app to create document libraries, part libraries and general libraries and use these libraries for organizing the parts and documents. You will learn how to store, manage and access documents and other files within the application in a collaborative work environment.
Objectives	Upon completion of this course you will be able to: - Create different types of libraries and their related hierarchies - Create and manage documents and parts - Classify the library objects based on their features - Use the Classification functionality
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA IP Protection Classification Essentials

Course Code	ENOV-en-IPCL-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Product Managers, IP Security Managers, IP Compliance Officers
Description	This course will teach you how to secure the Intellectual Property in a company. You will learn to use features of ENOVIA IP Protection Classification app to create security classes, libraries, rules and exceptions. You will also learn the features of ENOVIA IP Controlled Access app to create export control logs and shippers declarations.
Objectives	Upon completion of this course you will be able to: - Create Security Libraries and Classes - Define Security Rules and Exceptions for Intellectual Property - Authorize Intellectual Property - Generate Export Logs
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the ENOVIA Collaboration and Approvals app as well as the ENOVIA IP Classification app.
Available Online	Yes

What's New for IP Security Managers

Course Code	ENOV-en-WIPS-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1.5 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the IP Security Manager role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - - Describe the impact of the new capabilities on the IP Security Manager role - - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the IP Security Manager's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

ENOVIA

Options

ENOVIA Change Action Management Essentials

Course Code	ENOV-en-NCHA-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Change Initiators, Design Engineers and Product Managers
Description	This course will teach you how to use the ENOVIA Change Action Management app to manage the engineering change process. You will learn how to create change actions and add Proposed changes to it. You will also learn to work with change actions and view the Realized changes to complete the change process.
Objectives	Upon completion of this course, you will be able to: - Initiate a Change Action - Add Proposed Changes to a Change Action - Work Under Change Action to execute a Design Modification - View the Realized Changes - Review and Approve the Design changes
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with Variant Management, Engineering BOM Management in ENOVIA.
Available Online	Yes

ENOVIA Classify and Reuse Essentials

Course Code	ENOV-en-CLRE-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	3DEXPERIENCE Platform Users
Description	This course will teach you how to use the ENOVIA Classify and Reuse App to search and view different types of libraries as well as an objects' hierarchy. You will also learn how to manage the objects using these libraries. Based on a combination of videos, theory and simulations, you can take this course in a self-paced learning mode and is self-sufficient. However, if you want to practice, you will find a master exercise at the end of the course.
Objectives	Upon completion of this course, you will be able to: - Search and view different types of Libraries and their related hierarchy. - Search and view General Classes and Folders.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Collaboration and Approvals Essentials

Course Code	ENOV-en-BUPS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	10 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	3DEXPERIENCE platform Users
Description	This course will teach you the common functionalities used across all ENOVIA apps, which enable you to manage your content as well as collaborate with other members in a team. You will learn how to create workspaces for managing your business related components, such as folders, members and tasks. You will also learn how to create various workflows using routes, subscribe to your task related events, and report issues for objects. Further, you will learn to create documents and version them, while maintaining a record for all its revisions.
Objectives	Upon completion of this course, you will be able to: - Illustrate the structure of ENOVIA Business Process Services - Create and manage your folders - Create workflows - Identify and manage your assigned tasks - Subscribe to various objects and events - Report and resolve issues in objects - Create, track and organize your documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

ENOVIA Collaboration for Microsoft Essentials

Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Collaborative Lifecycle Management Essentials

Course Code	ENOV-en-LIIN-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	CAD designers, engineers in charge of product development
Description	In this course, you will learn how to use the ENOVIA Collaborative Lifecycle Management app to manage the complete lifecycle of an object in order to achieve concurrent engineering. You will also learn to manage the access and ownership of objects for collaboration of members on the same platform.
Objectives	Upon completion of this course you will be able to: - Create a new product structure - Use different sections of the Action bar effectively - Manage the changes in a product structure - Save the product structure in the database
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course
Available Online	Yes

ENOVIA Configuration Management Essentials

Course Code	ENOV-en-CFG-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Configuration Managers, Product Managers
Description	This course will teach you how to use ENOVIA Configuration Management features to manage global product designs and maintain consistent product performance throughout its life. You will learn to assign different types of effectivities and filter configured product structure. You will also learn to work with change actions and view the realized changes to complete the change process involving configured products.
Objectives	Upon completion of this course, you will be able to: - Create a product structure - Define a configured structure - Authorize and analyze the configured structure - Initiate a change action - Execute a design modification - Review and approve the change action with an applicability
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the ENOVIA Variant Management and ENOVIA Change Action Management courses.
Available Online	Yes

ENOVIA Exchanges Management Essentials

Course Code	ENOV-en-EXCH-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	CAD Designers and Platform Contributors
Description	This course will teach you how to use the import / export tools in 3DEXPERIENCE. You will also manage the mastership between V5 files and 3DEXPERIENCE files.
Objectives	Upon completion of this course, you will be able to: - Import and export 3DXML files - Import and export CATIA V5 files - Manage the Mastership of imported objects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

ENOVIA Materials Compliance Reporting Essentials

Course Code	ENOV-en-MADA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2.5 hours
Course Material	English
Level	Fundamental
Audience	Compliance Reviewers, Compliance Engineers and Senior Compliance Engineers
Description	This course will teach you how to use the Compliance Reporting app for viewing parts and material declarations. You will learn how to add parts to compliance portfolios. You will also learn how to generate various reports to view the compliance data.
Objectives	Upon completion of this course you will be able to: - Add parts to compliance portfolio - View material declaration data - Rollup parts to update their compliance data - Generate compliance reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with the ENOVIA Collaboration and Approvals and the ENOVIA Materials Compliance management courses.
Available Online	Yes

ENOVIA X-CAD Design Management Essentials

Course Code	ENOV-en-XCAD-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	14 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Product Engineers and Design Engineers - Business Administrators and System Administrators
Description	This course will teach you how to use the XCAD Design Management app for the CATIA V5 Connector. You will learn how to share and manage information related to engineering design and engineering change from CATIA V5 and ENOVIA. You will also learn how to view the details of CAD objects, search for data, perform lifecycle operations, create and synchronize the engineering bill of materials.
Objectives	Upon completion of this course, you will be able to: - Explore the ENOVIA X-CAD Design app - Initialize Design Templates - Store and retrieve the CATIA V5 files in ENOVIA - Create new components, drawings and Bill of Materials (BOM) - Review and release the CAD models - Purge old data, create and compare baselines
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with Collaboration and Approvals in ENOVIA and CATIA V5 fundamentals.
Available Online	Yes

ENOVIA X-CAD Design Management for SolidWorks Essentials

Course Code	ENOV-en-XCADS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Product Engineers and Design Engineers - Business Administrators and System Administrators
Description	This course will teach you how to use the XCAD Design Management app for the SOLIDWORKS Connector. You will learn how to share and manage information related to engineering design and engineering change from SOLIDWORKS and ENOVIA. You will also learn how to view the details of CAD objects, search for data, perform lifecycle operations, create and synchronize the engineering bill of materials.
Objectives	Upon completion of this course you will be able to: - Explore the XCAD Design app - Initialize and work in the Embedded Integration mode - Store and retrieve the SOLIDWORKS files in ENOVIA - Create new components, drawings and Bill of Materials (BOM) - Review and release the CAD models - Modify the existing designs and create new revisions
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform

ENOVIA X-CAD Design Management for SolidWorks Essentials

	course and should be familiar with Collaboration and Approvals in ENOVIA and SOLIDWORKS fundamentals.
Available Online	Yes

What's New for Reviewers and Approvers

Course Code	ENOV-en-WRWA-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	45 hours
Course Materials	English , German , Japanese
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Reviewers and Approvers role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Review and Approve role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the basics of the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

ENOVIA

Product Planning and Program Management

ENOVIA Collaboration for Microsoft Essentials	
Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Project Execution Essentials

Course Code	ENOV-en-PREX-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Project Members
Description	This course will teach you how to use the ENOVIA Project Execution app to manage your assigned tasks. You will be able to manage the project schedule, modify the tasks, record the risks and create timesheets.
Objectives	Upon completion of this course you will be able to: - Manage the project schedule - Record risks for tasks - Create and submit timesheets
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Project Management Advanced

Course Code	ENOV-en-PRPR-A-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	9 hours
Course Material	English
Level	Advanced
Audience	Project Managers, Project Members and Reviewers
Description	This course focuses on the advanced functionalities of ENOVIA Project Management app. You will learn how to manage risks associated with a project, assign people to meet the project's resource requirements and track quality metrics. You will also learn how to create budgets and benefits for a project, work with time sheets and generate labor reports.
Objectives	Upon completion of this course you will be able to: - Document the various risk areas of a project and track them - Create and manage the resource requirements for a project - Create budgets and benefits to monitor the financials of a project - Track the time spent on a project using time sheets - Create calendars for the projects - Identify the quality factors of a project and monitor them - Create an assessment to measure the project's health - Use dashboards to monitor the status of your projects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and

ENOVIA Project Management Advanced

	should be familiar with ENOVIA Project Management Fundamentals.
Available Online	Yes

ENOVIA Project Management Fundamentals

Course Code	ENOV-en-PRPR-F-15-191
Available Release	3DEXPERIENCE R2019x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Project Managers, Project Members and Reviewers.
Description	This course will teach you how to create and manage projects, assign project members, create tasks, create folder structures and define access rights for managing the documents related to the projects. You will also learn how to create the process flows for the review and approval of tasks, and how to monitor the status of different projects. Additionally, you will learn how to use the Microsoft Project Integration functionality to exchange and view a project's data.
Objectives	Upon completion of this course you will be able to: - Create programs and projects - Assign members to a project - Add tasks and assign project members to the tasks - Create folders for managing project documents - Create process flow for tasks - Review the status of programs and projects - Exchange and view projects' data using Microsoft Project Integration
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Project Managers

Course Code	ENOV-en-WDPM-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1.5 hours
Course Materials	English , German , Japanese
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Project Manager role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Project Manager role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Project Manager's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

What's New for Project Team Members

Course Code	ENOV-en-WDPJ-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	1 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Project Team Member role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Project Team Member role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Project Team Member's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

ENOVIA

Quality and Compliance Management

ENOVIA Collaboration for Microsoft Essentials

Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Materials Compliance Management Essentials

Course Code	ENOV-en-MACO-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Compliance Engineers, Senior Compliance Engineers and Supplier Representatives
Description	In this course, you will learn how to create and manage materials, substances and material declarations that are required to design the assembly components. You will also learn how to collect the regulatory requirements, integrate them through a supplier chain, analyze the compliance reports and publish them for customers.
Objectives	Upon completion of this course you will be able to: - Create environmental compliances - Perform compliance analysis - Collaborate with suppliers - Create material declarations - Generate compliance reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Materials Compliance Managers

Course Code	ENOV-en-WMCM-U-15-181
Available Release	3DEXPERIENCE R2018x
Duration	3 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Compliance Manager's role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Materials Compliance Manager role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Compliance Manager's role in the 3DEXPERIENCE platform R2017x release.
Available Online	Yes

ENOVIA

Strategic Customer Relationship Management

ENOVIA Collaboration for Microsoft Essentials	
Course Code	ENOV-en-COMI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	6 hours
Course Materials	English , German , Japanese
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	In this course, you will learn how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	Upon completion of this course you will be able to: - Access documents from the ENOVIA database using the Microsoft applications - Create, manage and synchronize the documents
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Traceable Requirements Management Essentials

Course Code	ENOV-en-RERE-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	14 hours
Course Material	English
Level	Fundamental
Audience	Requirement Managers, Product Managers, Product Architects and Product Engineers.
Description	This is a process-based course, which uses an industrial scenario to teach you how to use ENOVIA Traceable Requirements Management App for capturing, creating and managing the requirements. You will learn how to derive and decompose the requirements, create requirement specifications, associate requirements with models and products and validate the allocation status. You will also learn how to track the requirements using various traceability reports.
Objectives	Upon completion of this course you will be able to: - Capture requirements from MS Word and MS Excel documents - Create requirements and requirement specifications - Allocate requirements to products and models - Create test cases and use cases - Create revision and multiple versions of requirements - Generate traceability reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform

ENOVIA Traceable Requirements Management Essentials

	course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Requirements Managers

Course Code	ENOV-en-WTRM-U-15-191
Available Release	3DEXPERIENCE R2019x
Duration	1 hours
Course Material	English
Level	Update
Audience	3DEXPERIENCE platform users
Description	This course introduces you to the enhancements and new functionalities in the Requirements Manager role. It is a self-paced course and does not require any software installation or additional data.
Objectives	Upon completion of this course, you will be able to: - Describe the impact of the new capabilities on the Requirements Manager role - Put in practice the enhancements that you have learned to apply them on the operations that you perform under this role
Prerequisites	Students attending this course must be familiar with the Requirements Manager's role in the 3DEXPERIENCE platform R2018x release.
Available Online	Yes

SIMULIA
Capture and Reuse Simulation Intent

SIMULIA Process Experience Studio Essentials

Course Code	SIM-en-EXPS-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the Simulation Process Method Developer role.
Description	This course is an introduction to the web-based tool in the 3DEXPERIENCE Platform that allows methods developers to create customized interfaces for the Simulation Experiences. This app is similar to a form builder which lets the methods developer quickly develop the customized interface.
Objectives	Upon completion of this course you will be able to: - Produce simulation experiences - Create experience user interfaces
Prerequisites	The Process Composer Essentials course is required prior to taking this one.
Available Online	Yes

SIMULIA Results Analytics Essentials

Course Code	SIM-en-REII-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Simulation Process Method Developer Results Data Analyst
Description	This course is an introduction to the integrated web-based tool in the 3DEXPERIENCE platform that allows decision makers to collaboratively choose the best design from a large pool of data. This tool allows one to view and conduct trade-off analyses.
Objectives	Upon completion of this course you will be able to: - Initialize an analytics case - Conduct trade-off analyses - Select the best alternative
Prerequisites	None
Available Online	Yes

SIMULIA
Multidiscipline Simulation

SIMULIA Composites Simulation Engineer Essentials

Course Code	SIM-en-SCI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Composites Simulation Engineer
Description	Composite materials are used in many design applications because of their high stiffness-to-weight ratios. The 3DEXPERIENCE Platform offers a variety of tools for their design and analysis in the context of a single integrated work environment. This enables greater productivity and efficiency.
Objectives	Upon completion of this course you will be able to: - Perform simulations of composite materials
Prerequisites	Any one of the following courses is required prior to taking this one: Mechanical Scenario Creation Essentials Structural Scenario Creation Essentials Linear Dynamics Scenario Creation Essentials
Available Online	Yes

SIMULIA Fluid Mechanics Analyst Essentials

Course Code	SIM-en-FLA-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	- This course is intended for the following roles: - - Fluid Mechanics Analyst - Multiscale Systems Specialist
Description	This course is a comprehensive introduction to fluid mechanics simulation in the 3DEXPERIENCE Platform. In this course, you will learn how to solve computational fluid dynamics (CFD) problems.
Objectives	Upon completion of this course you will be able to: - Set up and create CFD simulations in the 3DEXPERIENCE Platform - Perform incompressible and compressible CFD analyses - Perform fully coupled conjugate heat transfer (CHT) analyses - Postprocess results
Prerequisites	None
Available Online	Yes

SIMULIA Linear Dynamics Scenario Creation Essentials

Course Code	SIM-en-DYNS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Structural Vibration Analyst Noise & Vibration Analys
Description	This course is an introduction to linear dynamics simulation in the 3DEXPERIENCE Platform. It teaches you how to solve linear dynamics problems, including natural frequency, harmonic response, and model dynamic applications. It also provides an introduction to solving interior structural-acoustic problems.
Objectives	Upon completion of this course you will be able to: - Perform linear dynamics simulations - Perform coupled structural-acoustic simulations - View and evaluate simulation results
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA Physics Results Explorer Essentials

Course Code	SIM-en-PHYR-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Simulation Results Analyst Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Fluid Mechanics Analyst Multiphysics Simulation Researcher Structural Analysis Engineer Steel Ship Structural Analysis Engineer
Description	The 3DEXPERIENCE Platform offers a rich variety of simulation tools and provides a new paradigm in results visualization. This course is an introduction to the high-performance visualization tool in the 3DEXPERIENCE Platform that allows simulation analysts and engineers to view and evaluate simulation results.
Objectives	Upon completion of this course you will be able to: - View and evaluate simulation results
Prerequisites	None
Available Online	Yes

SIMULIA Structural Model Creation : Geometry and Meshing

Course Code	SIM-en-MECM2-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Multiphysics Simulation Researcher Finite Element Modeling & Assembly Specialist
Description	This course provides an in-depth look at cleaning/repairing geometry for the purpose of generating high quality meshes. It also offers a comprehensive discussion on meshing techniques. The focus is on techniques relevant to simulation.
Objectives	Upon completion of this course you will be able to: - Clean and repair native and imported geometry. - Use advanced meshing techniques.
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA Structural Model Creation Essentials

Course Code	SIM-en-MECM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Multiphysics Simulation Researcher Structural Analysis Engineer Steel Ship Structural Analysis Engineer Finite Element Modeling & Assembly Specialist
Description	This course is an introduction to finite element modeling in the 3DEXPERIENCE platform. It teaches you how to prepare finite element models for simulation.
Objectives	Upon completion of this course you will be able to: - Create complete Finite Element models for structural and thermal simulations
Prerequisites	None
Available Online	Yes

SIMULIA Structural Scenario Creation Essentials	
Course Code	SIM-en-EMCS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Structural Analysis Engineer Steel Ship Structural Analysis Engineer
Description	This course is an introduction to structural and thermal simulation in the 3DEXPERIENCE Platform. It teaches you how to solve both linear and nonlinear static problems and basic linear dynamics problems.
Objectives	Upon completion of this course you will be able to: - Perform structural simulations (linear and nonlinear; statics and dynamics) - Perform thermal simulations - View and evaluate simulation results
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA
Multiphysics Simulation

SIMULIA Abaqus Study Essentials

Course Code	SIM-en-ABQX-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Experienced Abaqus users who need to be able to run and manage their simulations in the 3DEXPERIENCE Platform will benefit from attending this class.
Description	The course covers the following topics: • Creating and configuring jobs • Managing files and data • Common Abaqus simulation use cases, including submodeling, making use of user subroutines, restart and import simulations. The course is divided into lectures and workshops. The course's workshops are integral to the training. They are designed to reinforce concepts presented during the lectures. They are intended to provide users with the experience of running and trouble-shooting actual simulation processes.
Objectives	This course is an introduction to running existing Abaqus simulations in the 3DEXPERIENCE Platform. The Abaqus Study app can be used to configure and run an Abaqus/Standard or an Abaqus/Explicit analysis while still providing the full functionality of Abaqus, such as the ability to use include files and to run user subroutines. Abaqus Study helps Abaqus users leverage the power of the 3DEXPERIENCE platform to manage their simulation data, collaborate across their organization, and view the results of an analysis with high-performance visualization apps.
Prerequisites	

SIMULIA Abaqus Study Essentials

Available Online	Yes

SIMULIA Durability Validation Essentials

Course Code	SIM-en-DURV-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Stress Engineer
Description	This course is an introduction to performing durability simulation to spur product and design innovation in the 3DEXPERIENCE Platform. The 3DEXPERIENCE Platform enables realistic durability simulation of parts/assemblies under cyclic loading conditions early in the design cycle, when the cost of design change is low and opportunity is high.
Objectives	Upon completion of this course you will be able to: - Search and open simulations in the database - Understand the class of durability loads that can be applied - Perform a durability simulation - Apply loading history to represent real-world usage - Understand when surface finish can be applied - Review simulations stored in a database and generate reports
Prerequisites	The following course is required prior to taking this one: Structural Validation Essentials
Available Online	Yes

SIMULIA Fluid Mechanics Validation Essentials

Course Code	SIM-en-FLOV-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	- Product designers and engineers who will perform flow simulations in the 3DEXPERIENCE Platform will benefit from attending this class. This course is intended for the following role: - - Fluid Dynamics Engineer
Description	This course is an introduction to performing flow simulation to spur product and design innovation in the 3DEXPERIENCE Platform. In this course, you will learn how to perform realistic simulations of flow phenomena in order to validate designs.
Objectives	Searching and managing simulation data - Performing a fluid flow and heat transfer analysis using the Fluid Mechanics Validation app - Obtain appropriate reports to produce highly efficient designs and/or optimize their performance
Prerequisites	None
Available Online	Yes

SIMULIA Linear Dynamics Scenario Creation Essentials

Course Code	SIM-en-DYNS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Structural Vibration Analyst Noise & Vibration Analys
Description	This course is an introduction to linear dynamics simulation in the 3DEXPERIENCE Platform. It teaches you how to solve linear dynamics problems, including natural frequency, harmonic response, and model dynamic applications. It also provides an introduction to solving interior structural-acoustic problems.
Objectives	Upon completion of this course you will be able to: - Perform linear dynamics simulations - Perform coupled structural-acoustic simulations - View and evaluate simulation results
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA Mechanical Scenario Creation Essentials

Course Code	SIM-en-MECS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Mechanical Analyst Multiphysics Simulation Researcher
Description	This course is an introduction to mechanical and thermal simulation in the 3DEXPERIENCE Platform. It teaches you how to solve both linear and nonlinear static and dynamics problems and view simulation results.
Objectives	Upon completion of this course you will be able to: - Perform structural simulations (linear and nonlinear; statics and dynamics) - Perform thermal simulations - View and evaluate simulation results
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA Model Assembly Design Essentials

Course Code	SIM-en-MSAM-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Assembly Modeling Specialist Finite Element Modeling & Assembly Specialist
Description	This course in an introduction to creating large and complex finite element assemblies using the Batch Modeling technology in the 3DEXPERIENCE Platform. The course also discusses managing the product structure for large assemblies of parts and meshes created either in the 3DEXPERIENCE Platform or in 3rd-party tools.
Objectives	Upon completion of this course you will be able to: - Create external simulation representations. - Perform automated modeling
Prerequisites	Structural Model Creation: Geometry and Meshing
Available Online	Yes

SIMULIA Multiscale Experiment Creation Essentials

Course Code	SIM-en-MSEC-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Multiscale Systems Specialist Multiphysics Experiment Creator Multiscale System Analyst
Description	This course is an introduction to performing multiscale and multiphysics simulations in the 3DEXPERIENCE platform. Multiscale experiments can combine 3D physics simulations with logical system simulations that are highly abstracted approximations of real-world physical behavior (usually packaged in the form of a functional mockup unit or FMU). Multiphysics experiments involve high-precision 3D simulations such as mechanical finite element analyses, computational fluid dynamics (CFD) flow simulations, and electromagnetic simulations. You can combine two different physics domains to create a co-simulation such as a fluid-structure interaction (FSI) and conjugate heat transfer (CHT).
Objectives	Upon completion of this course you will be able to: - Set up and create models for co-simulation analysis in the 3DEXPERIENCE platform - Perform co-simulation analyses - Postprocess co-simulation analyses
Prerequisites	The following courses are required prior to taking this one: Mechanical Scenario Creation Essentials Fluid Mechanics Analyst Essentials

SIMULIA Multiscale Experiment Creation Essentials

Available Online	Yes

SIMULIA Physics Results Explorer Essentials

Course Code	SIM-en-PHYR-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Simulation Results Analyst Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Fluid Mechanics Analyst Multiphysics Simulation Researcher Structural Analysis Engineer Steel Ship Structural Analysis Engineer
Description	The 3DEXPERIENCE Platform offers a rich variety of simulation tools and provides a new paradigm in results visualization. This course is an introduction to the high-performance visualization tool in the 3DEXPERIENCE Platform that allows simulation analysts and engineers to view and evaluate simulation results.
Objectives	Upon completion of this course you will be able to: - View and evaluate simulation results
Prerequisites	None
Available Online	Yes

SIMULIA Plastic Mold Injection Essentials	
Course Code	SIM-en-PPM-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Simulation Analysts
Description	This course is an introduction to performing injection molding simulation to spur product and design innovation in the 3DEXPERIENCE Platform. The 3DEXPERIENCE Platform enables realistic plastic injection molding simulation of the mold cooling, filling and packing manufacturing processes early in the design cycle, when the cost of design change is low and opportunity is high.
Objectives	Upon completion of this course you will be able to: - Performa plastic injection molding simulation of the mold cooling, filling and packing processes using the Plastic Mold Injection app · Understand simulation results from the molding process through to part warpage to produce highly efficient designs and/or optimize their performance
Prerequisites	None
Available Online	Yes

SIMULIA Plastic Part Injection Essentials

Course Code	SIM-en-PPI-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Plastic Injection Analysis Engineer
Description	This course is an introduction to performing injection molding simulation to spur product and design innovation in the 3DEXPERIENCE platform. The 3DEXPERIENCE platform enables realistic plastic injection molding simulation of both the filling and packing manufacturing processes early in the design cycle, when the cost of design change is low and opportunity is high.
Objectives	Upon completion of this course you will be able to: - Perform Injection Molding simulations - View and evaluate simulation results
Prerequisites	None
Available Online	Yes

SIMULIA Simulation Model Design Essentials

Course Code	SIM-en-SML-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Fluid Mechanics Analyst Multiphysics Simulation Researcher Finite Element Modeling & Assembly Specialist
Description	This course is an introduction to creating and assembling geometry in the 3DEXPERIENCE Platform. The focus is on techniques relevant to simulation.
Objectives	Upon completion of this course you will be able to: - Create basic native solid geometry. - Create basic native shell geometry. - Create assemblies of parts.
Prerequisites	None
Available Online	Yes

SIMULIA Structural Model Creation : Geometry and Meshing

Course Code	SIM-en-MECM2-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Multiphysics Simulation Researcher Finite Element Modeling & Assembly Specialist
Description	This course provides an in-depth look at cleaning/repairing geometry for the purpose of generating high quality meshes. It also offers a comprehensive discussion on meshing techniques. The focus is on techniques relevant to simulation.
Objectives	Upon completion of this course you will be able to: - Clean and repair native and imported geometry. - Use advanced meshing techniques.
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA Structural Model Creation Essentials

Course Code	SIM-en-MECM-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Multiphysics Simulation Researcher Structural Analysis Engineer Steel Ship Structural Analysis Engineer Finite Element Modeling & Assembly Specialist
Description	This course is an introduction to finite element modeling in the 3DEXPERIENCE platform. It teaches you how to prepare finite element models for simulation.
Objectives	Upon completion of this course you will be able to: - Create complete Finite Element models for structural and thermal simulations
Prerequisites	None
Available Online	Yes

SIMULIA Structural Scenario Creation Essentials

Course Code	SIM-en-EMCS-F-15-181
Available Releases	3DEXPERIENCE R2018x , 3DEXPERIENCE R2019x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Structural Analysis Engineer Steel Ship Structural Analysis Engineer
Description	This course is an introduction to structural and thermal simulation in the 3DEXPERIENCE Platform. It teaches you how to solve both linear and nonlinear static problems and basic linear dynamics problems.
Objectives	Upon completion of this course you will be able to: - Perform structural simulations (linear and nonlinear; statics and dynamics) - Perform thermal simulations - View and evaluate simulation results
Prerequisites	The following course is required prior to taking this one: Structural Model Creation Essentials
Available Online	Yes

SIMULIA Structural Validation Essentials

Course Code	SIM-en-STRV-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following role: Stress Engineer
Description	This course is an introduction to performing structural simulation to spur product and design innovation in the 3DEXPERIENCE Platform. The 3DEXPERIENCE Platform enables realistic structural simulation of parts/ assemblies under mechanical loading conditions early in the design cycle, when the cost of design change is low and opportunity is high.
Objectives	Upon completion of this course you will be able to: - Search for simulation data in the database - Open the simulation for modification - Perform a structural/frequency simulation using the Structural Validation app - Perform thermal and thermal-structural simulations the Structural Validation app - Review simulations stored in a database and generate reports
Prerequisites	None
Available Online	Yes

SIMULIA

Platform Options

SIMULIA 3DPlay Simulation Experience Essentials

Course Code	SIM-en-3DP-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the following roles: Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Fluid Mechanics Analyst Finite Element Modeling & Assembly Specialist Structural Analysis Engineer Steel Ship Structural Analysis Engineer Stress Engineer Fluid Dynamics Engineer
Description	This course teaches you how to replay simulation experiences in 3DPlay leveraging lightweight results visualization.
Objectives	Upon completion of this course you will be able to: - Replay simulation experiences in 3DPlay - Perform lightweight visualization through web browsers
Prerequisites	None
Available Online	Yes

SIMULIA Performance Study Essentials

Course Code	SIM-en-DISB-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Analyst Structural Vibration Analyst Noise & Vibration Analyst Fluid Mechanics Analyst Finite Element Modeling & Assembly Specialist Structural Analysis Engineer Steel Ship Structural Analysis Engineer Stress Engineer Fluid Dynamics Engineer Simulation Process Method Developer Results Data Analyst
Description	This course is an introduction to the lightweight web-based tool in the 3DEXPERIENCE Platform that allows simulation analysts and engineers to run predefined Simulation Processes. The tool enables one to quickly search, run, and monitor existing Simulation Processes.
Objectives	Upon completion of this course you will be able to: - Instantiate Simulation Processes from Simulation Experiences - Run and monitor Simulation Processes - Manage Simulation Processes
Prerequisites	None
Available Online	Yes

SIMULIA Process Composer Essentials

Course Code	SIM-en-PRCW-F-15-181
Available Release	3DEXPERIENCE R2018x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	- This course is intended for the following roles: - Mechanical Analyst - Structural Vibration Analyst - Noise and Vibration Analyst - Fluid Mechanics Analyst - Finite Element Modeling and Assembly Specialist - Simulation Process Method Developer
Description	The 3DEXPERIENCE Platform offers a rich variety of tools enabling methods developers to capture processes and incorporate best practices within their organization. This enables automation and ensures that all within the organization follow best practices. This course provides an introduction to integrating the various tools (simulation, CAD, etc.) that might be available within an organization to create a Simulation Process.
Objectives	Upon completion of this course you will be able to: - Compose Simulation Processes - Produce Simulation Experiences
Prerequisites	None
Available Online	Yes