

Course Catalog

3DEXPERIENCE R2017x

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3DEXPERIENCE®

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CATIA

3DEXPERIENCE Platform

Gateway to the 3DEXPERIENCE platform

Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE Platform
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Filter data
Prerequisites	There are no prerequisites for this course

Gateway to the 3DEXPERIENCE platform

Available Online

Yes

CATIA

3D Modeling

CATIA Assembly Design Expert (ASD)

Course Code	CAT-en-ASD-A-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Functional Generative Design essentials (GDE)

Course Code	CAT-en-GDE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers or Structure Engineers
Description	The course will teach you how you can create a part on a collaborative platform using the Generative Design Approach and select the best possible solution.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Design and validate detailed design for casting
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and should be familiar with basic knowledge of mechanical design, simulation and optimization.
Available Online	Yes

CATIA Generative Shape Design Essentials (GSD)

Course Code	CAT-en-GSD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	24 hours
Course Material	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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Generative Wireframe and Surface Essentials (GS1)

Course Code	CAT-en-GS1-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (3DE)

Course Code	CAT-en-3DE-A-15-171
Available Release	3DEXPERIENCE R2017x
Duration	32 hours
Course Material	English
Level	Advanced
Audience	Mechanical Designers
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course and in addition, they should be familiar with the Mechanical Design Fundamentals.</p>

CATIA Mechanical Design Expert (3DE)

Available Online

Yes

CATIA Mechanical Design Fundamentals (3DF)

Course Code	CAT-en-3DF-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 titleblocks
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

CATIA Mechanical Design Fundamentals (3DF)

Available Online

Yes

CATIA Natural Shape Essentials (LSP)

Course Code	CAT-en-LSP-F-15-171
Available Release	3DEXPERIENCE R2017x
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 allow you to practice using the tools. You will also learn the related theory, tips and recommendations while performing the exercises.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (PDG)

Course Code	CAT-en-PDG-A-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (PDG)

Course Code	CAT-en-PDG-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

Transition to the 3DEXPERIENCE platform for Mechanical Designers (3DMT)

Course Code	CAT-en-3DMT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical parts
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with CATIA V5 Mechanical Design.</p>

Transition to the 3DEXPERIENCE platform for Mechanical Designers (3DMT)

Available Online

Yes

Transition to the 3DEXPERIENCE Platform for Surface Designers (3DST)

Course Code	CAT-en-3DST-F-15-171
Available Release	3DEXPERIENCE R2017x
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. 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

What's New for 3DMaster Conceptual Designers (WM3C)

Course Code	CAT-en-WM3C-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DMaster Conceptual Designers
Description	<p>What's New for 3DMaster Conceptual Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You can now select an existing sketch profile by choosing the Selection option from the Tools Palette. A new Replace Face command has been introduced, grid has been enhanced and fillet creation options have been increased. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical design concepts.
Available Online	Yes

What's New for 3DMaster Designers (WM3D)

Course Code	CAT-en-WM3D-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DMaster Designers
Description	<p>What's New for 3DMaster Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will learn how to use planes as direction elements while creating movable datum targets. You will also learn how to customize graphic properties of annotations, construction geometry, restricted areas, datum targets and contacting features. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the 3DMaster 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical design concepts.
Available Online	Yes

What's New for Design Review and Preparation (WDWP)

Course Code	CAT-en-WDWP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Design Reviewers
Description	<p>What's New for Design Review and Preparation introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the newly added highlight related text, picture and audio to enhance the design review process. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and design review concepts.
Available Online	Yes

What's New for Machine and Equipment Designers (WMQD)

Course Code	CAT-en-WMQD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Machine and Equipment Designers
Description	<p>What's New for Machine and Equipment Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the newly added highlights related to position and velocity excitations. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform, shape design, equipment and mechanical design concepts.
Available Online	Yes

What's New for Mechanical and Shape Designers (WMES)

Course Code	CAT-en-WMES-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical & Shape Designers
Description	<p>What's New for Mechanical & Shape Designers introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will be able to use the newly added Essentials section to quickly access the most used tools. You will also be able to use new feature enhancements to create mid-planes and mid-points using the Robot. This What's New module allows experienced CATIA users to take full benefit of the major technical enhancements introduced in the Reverse Shape Optimizer role in 3DEXPERIENCE R2017x. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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

What's New for Mechanical and Shape Designers (WMES)

Prerequisites

Students attending this module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical design concepts.

Available Online

Yes

What's New for Mechanical Designers (WMDG)

Course Code	CAT-en-WMDG -F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	What's New for Mechanical Designers introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will be able to use the newly added Essentials section to quickly access the most used tools. You will also be able to use new feature enhancements to create mid-planes and mid-points using the Robot.
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 basics of the 3DEXPERIENCE platform and mechanical design concepts.
Available Online	Yes

What's New for Mechanical Part Designers (WMDD)

Course Code	CAT-en-WMDD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Part Designers
Description	<p>What's New for Mechanical Part Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the newly added Essentials section to quickly access the frequently used tools. You will also be able to de-select the faces by clicking the error face flag. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical part design concepts.
Available Online	Yes

What's New for Mechanism Simulation Designers (WMKS)

Course Code	CAT-en-WMKS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Simulation Designers
Description	<p>What's New for Mechanism Simulation Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will also be able to use the new enhancements to create a velocity motor excitation and position motor excitation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform, mechanical and simulation design concepts.
Available Online	Yes

What's New for Powertrain and Chassis Designers (WMEF)

Course Code	CAT-en-WMEF-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Chassis Designers
Description	<p>What's New for Powertrain and Chassis Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the enhanced Update Assistance functionality to update the product globally or locally. You will also be able to access the context toolbar by selecting a geometric element. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical and shape design concepts.
Available Online	Yes

What's New for Shaped Machine and Equipment Designers (WMQS)

Course Code	CAT-en-WMQS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Shaped Machine and Equipment Designers
Description	<p>What's New for Shaped Machine and Equipment Designers introduces the new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will be able to use the newly added highlights related to the position and velocity excitations. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform, shape design, equipment and mechanical design concepts.
Available Online	Yes

What's New for Sheet Metal Designers (WSMW)

Course Code	CAT-en-WSMW-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Sheet Metal Designers
Description	<p>What's New for Sheet Metal Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You can now access the context toolbar by selecting a geometric element. You can also add a correction script to a PLM check which can trigger a message about an error or fix the error. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and sheet metal design concepts.
Available Online	Yes

CATIA

3DSOpen Apps

CATIA Engineering Rules Capture Essentials (KWA)

Course Code	CAT-en-KWA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create knowledgeware objects in order to embed parameters and design rules within your models. You will also learn how to check the models, reduce errors and automate the modifications.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Customize the tree to display knowledgeware features - Create parametric models - Embed your design knowledge in the models - Automate the design and modification processes - Create design configurations using design tables
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with the Enterprise Knowledge Language (EKL) and Part Design.
Available Online	Yes

CATIA Engineering Templates Capture Essentials (PKT)

Course Code	CAT-en-PKT-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (KT1)

Course Code	CAT-en-KT1-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 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: <ul style="list-style-type: none"> - Create customized features using templates
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.
Available Online	Yes

CATIA Know-how Reuse Essentials (KE1)

Course Code	CAT-en-KE1-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 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	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> - 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

Introduction to Enterprise Knowledge Language (EKL)

Course Code	CAT-en-EKL-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers, Electrical Engineers and Piping Engineers
Description	This course will introduce you to the Enterprise Knowledge Language, used in different knowledgeware apps, which allows you to construct smart-models and automate design for maximum productivity.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Describe the EKL syntax and its usage - Manipulate CATIA objects through EKL scripts directly - Embed design logic in CATIA models using EKL
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with Mechanical Design fundamentals.
Available Online	Yes

What's New for Template Designers (WKDI)

Course Code	CAT-en-WKDI-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Template Designers
Description	<p>What's New for Template Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to add a correction script to a PLM check which can trigger a message about an error or fix the error. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and template design concepts.
Available Online	Yes

CATIA

Electrical and Fluids Engineering

What's New for Electrical 3D Design Engineers (WELG)

Course Code	CAT-en-WELG-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Electrical Engineers
Description	<p>What's New for Electrical 3D Design Engineers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the enhancements in the Immersive Branch Definition functionality to give a better user experience while creating and editing branches. You will also be able to route several branches through a set of supports. Based on the combination of videos, theory and simulations, this module can be taken in a self-paced learning mode. It is self-sufficient in itself and does not require any additional data or software installation.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Electrical 3D Design 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 module must be familiar with the basics of the 3DEXPERIENCE platform and electrical design concepts.
Available Online	Yes

What's New for Electrical Designers (WELD)

Course Code	CAT-en-WELD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Electrical Designers
Description	<p>What's New for Electrical Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the enhancements in the Immersive Branch Definition functionality to give a better user experience while creating and editing branches. You will also be able to route several branches through a set of supports. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and electrical design concepts.
Available Online	Yes

What's New for Fluidic 3D Systems Designers (WFLG)

Course Code	CAT-en-WFLG-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Fluid System Designers
Description	<p>What's New for Fluidic 3D Systems Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the Piping and Tubing 3D Design and Setup. You will also be able to use new feature enhancements to create fillets using advanced panel options. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Fluid System 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 module must be familiar with the basics of the 3DEXPERIENCE platform and fluid 3D systems concepts.
Available Online	Yes

What's New for Tubing Designers (WPTB)

Course Code	CAT-en-WPTB-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Tubing Designers
Description	<p>What's New for Tubing Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to route pipes using new contextual manipulators. You will also be able to analyze technological tables to know whether a table has a bad value or link issue. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of these 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 module must be familiar with the basics of the 3DEXPERIENCE platform and fluid engineering concepts.
Available Online	Yes

CATIA

Mechanical Systems

CATIA 2D Layout for 3D Design Essentials (LO1)

Course Code	CAT-en-LO1-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create 2D layout views in a 3D model and use them to design the part in the 3D environment.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (LFT)

Course Code	CAT-en-LFT-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Tolerancing and Annotation Essentials (FTA)

Course Code	CAT-en-FTA-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Drafting Essentials (GDR)

Course Code	CAT-en-GDR-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	24 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 adding the required dimensions. You will also learn how to use advanced tools to dress-up, annotate views.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Work with large assemblies - Create interactive views and geometry to prepare 2D drawings - Add Bill of Material, frames and title blocks
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 Mechanical Systems Design Essentials (KIM)

Course Code	CAT-en-KIM-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (KIN)

Course Code	CAT-en-KIN-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (LCP)

Course Code	CAT-en-LCP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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.
Available Online	Yes

CATIA

Multi-Discipline Engineering

CATIA 3D Printing Preparation Essentials (TLE)

Course Code	CAT-en-TLE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Bent Part Design Essentials (SMB)

Course Code	CAT-en-SMB-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (CPB)

Course Code	CAT-en-CPB-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (CPE)

Course Code	CAT-en-CPE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	40 hours
Course Material	English
Level	Fundamental
Audience	Composites Designers
Description	<p>This course will first teach you how to design simple Composites Parts using a Manual approach. You will then learn how to use a 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 to generate exact solids and create composites drawings.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with CATIA Drafting.</p>

CATIA Composites Design Essentials (CPE)

Available Online

Yes

CATIA Composites Manufacturing Preparation Essentials (CPM)

Course Code	CAT-en-CPM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Composites manufacturing designers
Description	<p>This course will teach you how to create a manufacturing document from a composites engineering design document. You will learn how to modify the manufacturing data structure and synchronize the link between the engineering and the manufacturing data. You will also learn how to apply the manufacturing and producibility constraints in the composites design process.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with CATIA Drafting.</p>

CATIA Composites Manufacturing Preparation Essentials (CPM)

Available Online

Yes

CATIA Functional Plastic Parts Essentials (FMP)

Course Code	CAT-en-FMP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create a molded plastic part - Add holes and protected areas - Add ribs and bosses - Reuse existing design templates - Modify the part - Add fillets and drafts
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 Sheet Metal Design Essentials (SMD)

Course Code	CAT-en-SMD-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Functional Design Essentials (SFD)

Course Code	CAT-en-SFD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 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 features like 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Set up the project resources - Create a 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 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 (RSO)

Course Code	CAT-en-RSO-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Reverse Shape Optimizers
Description	<p>This course addresses the needs of Reverse Shape Optimizers. It 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. It will teach you about optimization of a vector field and also how to filter a vector field to check quality of vectors.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Morph surfaces with a computed deformation field - Optimize vectors field from deviation analysis - Filter vectors field to check the quality of the vectors
Prerequisites	<p>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.</p>
Available Online	Yes

CATIA Weld Design Essentials (WDG)

Course Code	CAT-en-WDG-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

What's New for Composites Braiding Designers (WCBA)

Course Code	CAT-en-WCBA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Composites Braiding Designers
Description	<p>What's New for Composites Braiding Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the newly added Essentials section to quickly access the frequently used tools. You will also be able to use the new feature enhancements to create mid-planes and mid-points using the Robot. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of these new capabilities on the Composites Braiding 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 should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

What's New for Composites Designers (WCDE)

Course Code	CAT-en-WCDE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Composites Designers
Description	<p>What's New for Composites Designers introduces the new and enhanced functionalities applicable for the Composites Designer role in 3DEXPERIENCE R2017x. By the end of this course, you will be able to use newly added tutorials for grid design. You will also be able to create rosette curves, export stacking data in XML format and generate stacking table. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and composites design concepts.
Available Online	Yes

What's New for Composites Designers and Manufacturers (WCDL)

Course Code	CAT-en-WCDL-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Composite Designers and Manufacturers
Description	<p>What's New for Composites Designers and Manufacturers introduces the new and enhanced functionalities applicable for this role in 3DEXPERIENCE R2017x. By the end of this module, you will be able to use newly added tutorials for grid design and optimize plies while flattening them. You will also be able to create rosette curves, export stacking data in XML format and generate stacking table. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and Composite Design and Manufacturing.
Available Online	Yes

What's New for Composites Engineers (WCDF)

Course Code	CAT-en-WCDF-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Composite Engineers
Description	<p>What's New for Composite Engineers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. By the end of this course, you will be able to use newly added tutorials for grid design and optimize plies while flattening them. You will also be able to create rosette curves, export stacking data in XML format and generate stacking table. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Composite 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 module must be familiar with the basics of the 3DEXPERIENCE platform and composite design concepts.
Available Online	Yes

What's New for Composites Manufacturer (WCMF)

Course Code	CAT-en-WCMF-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Composites Manufacturers
Description	This What's New module allows experienced CATIA users to take full benefit of the major technical enhancements introduced in the Composite Manufacturer role in 3DEXPERIENCE R2017x. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and composites design concepts.
Available Online	Yes

What's New for Interior Designers (WFPM)

Course Code	CAT-en-WFPM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Interior Designers
Description	<p>What's New for Interior Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to change the type of Planar Support of the sketch during the creation of a sketch in the Sketcher app. You will also be able to perform porcupine analysis. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Interior 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 module must be familiar with the basics of the 3DEXPERIENCE platform and interior design concepts.
Available Online	Yes

What's New for Plastic Mechanical Designers (WFPP)

Course Code	CAT-en-WFPP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Plastic Mechanical Designers
Description	<p>What's New for Plastic Mechanical Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the newly added highlights related the limiting options used to create shaft and groove and use the update assistant. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical, plastic and shape design concepts.
Available Online	Yes

What's New for Product Enclosure Designers (WPED)

Course Code	CAT-en-WPED-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Product Enclosure Designers
Description	<p>What's New for Product Enclosure Designers introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will be able to use the newly added Essentials section to quickly access the most used tools. You will also be able to use new feature enhancements to create mid-planes and mid-points using the Robot. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical design concepts.
Available Online	Yes

What's New for Reverse Shape Optimizers (WVSO)

Course Code	CAT-en-WVSO-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Reverse Shape Optimizers
Description	<p>This What's New module allows experienced CATIA users to take full benefit of the major technical enhancements introduced in the Reverse Shape Optimizer role in 3DEXPERIENCE R2017x. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Reverse Shape Optimizer 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 module must be familiar with the basics of the 3DEXPERIENCE platform and reverse shape morphing concepts.
Available Online	Yes

What's New for Structure Designers (WSTR)

Course Code	CAT-en-WSTR-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Structural Designers, Naval Architects
Description	<p>What's New for Structure Designers introduces new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to define action rules such as color, naming using the Rules catalog. You will also be able to select volume as well as structure systems for synchronizing detail design references with basic design references. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and structure, mechanical design concepts.
Available Online	Yes

CATIA

Styling

CATIA Digitized Shape Preparation Essentials (DSE)

Course Code	CAT-en-DSE-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> - 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 ICEM Shape Design Essentials (ICM)

Course Code	CAT-en-ICM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	40 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (IEX)

Course Code	CAT-en-IEX-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Class A Expert
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	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> - 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 CATIA ICEM Shape Design, Wireframe and Surface Design.
Available Online	Yes

CATIA Mechanical Surface Refinement Essentials (SRF)

Course Code	CAT-en-SRF-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

What's New for Aesthetical Shape Modelers (WFFS)

Course Code	CAT-en-WFFS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Aesthetical Shape Modelers
Description	<p>What's New for Aesthetical Shape Modelers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to directly modify a 3D Curve feature. You will also be able to import images and retain the original opacity of the pixels. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and shape design concepts.
Available Online	Yes

What's New for Class A Modelers (WICD)

Course Code	CAT-en-WICD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Class A Modeler, Shape Designers
Description	<p>What's New for Class A Modelers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to import images and retain the original opacity of the pixels. You will also be able to use the new enhancements which aggregates all patch creation methods. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and shape design concepts.
Available Online	Yes

What's New for Creative Designers (WCCS)

Course Code	CAT-en-WCCS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Creative Designers
Description	<p>What's New for Creative Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to modify a 3D curve feature created using the control points type. You will also be able to use the new feature enhancements to create mid-planes and mid-points using the robot. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and creative design concepts.
Available Online	Yes

What's New for Product Industrial Designers (WCDD)

Course Code	CAT-en-WCDD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Product Industrial Designers
Description	<p>What's New for Product Industrial Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to modify a 3D curve feature created using the control points type. You will also be able to use the new feature enhancements to create mid-planes and mid-points using the robot. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and product industrial design concepts.
Available Online	Yes

What's New for Shape Designers (WSUA)

Course Code	CAT-en-WSUA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Shape Designers
Description	This What's New module allows experienced CATIA users to take full benefit of the major technical enhancements introduced in the Shape Designer role in 3DEXPERIENCE R2017x. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of these 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 basics of the 3DEXPERIENCE platform and shape design concepts.
Available Online	Yes

What's New for Transportation Designers (WCDT)

Course Code	CAT-en-WCDT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Transportation Designers
Description	<p>What's New for Transportation Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to modify a 3D curve feature created using the control points type. You will also be able to access various frequently used features using the action pad. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and transportation design concepts.
Available Online	Yes

What's New for Virtual and Physical Prototypers (WRPE)

Course Code	CAT-en-WRPE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Virtual & Physical Prototypers
Description	<p>What's New for Virtual & Physical Prototypers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to select a mesh as an input to filter a field of vectors to deform. You will also be able to use the new feature enhancements to create mid-planes and mid-points using the robot. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Virtual & Physical Prototyper 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 module must be familiar with the basics of the 3DEXPERIENCE platform and virtual and physical prototyping concepts.
Available Online	Yes

CATIA

Systems Architecture

CATIA Embedded Electronics Architecture Essentials (EEA)

Course Code	CAT-en-EEA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Embedded Electronics Architects
Description	<p>This course will teach you how to create functional architecture, hardware architecture, communication matrix and allocation of functional architecture on to hardware , port to signal mappings. You will also learn how to navigate through requirement specification, create implement links for traceability, variant filtering and managing projects. You can also generate some analysis reports based on the design.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Design functional architectures - Navigate through Requirements - Design hardware topologies using EE components and channels - Manage the communications in the embedded systems using communications matrices and systems signals - Allocate functions and flows to EE components and channels using system mappings - Allocate software components and their data exchange to EE components and communication channels using system mappings - Generate analysis reports

CATIA Embedded Electronics Architecture Essentials (EEA)

Prerequisites

Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course.

Available Online

Yes

CATIA Systems Report Generation Fundamentals (RGN)

Course Code	CAT-en-RGN-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Report Designer/Administrator, System Architecture Designer, Discipline Architects, Project Managers
Description	This course will teach you how to create and manage reports and their inputs. You will create the different inputs such as Output Format and Template to define how you want to structure your report, with which data information and using which document format. Then you will generate a report, manage it and track changes.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Configure your own environment - Create and manage report templates - 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

What's New for Dynamic Systems Designer (WSDY)

Course Code	CAT-en-WSDY-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Dynamic Systems Designers
Description	<p>What's New for Dynamic Systems Designers introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will be able to use the newly added highlights. You will also be able to create Dymola diagrams more efficiently and edit the Dymola parameters in the Functional & Logical Design app. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform, Systems Engineering and Dymola Behavior.
Available Online	Yes

What's New for Mechatronic Systems Designers (WSMQ)

Course Code	CAT-en-WSMQ-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechatronic Systems Designers
Description	<p>What's New for Mechatronic Systems Designers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to import some of the Modelica libraries in the database and also load them in the session. You will also be able to drive a command in your mechanism using different parameters of the motor excitation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical design, systems engineering and Dymola behavior modeling concepts.
Available Online	Yes

What's New for Systems Architecture Designers (WSAT)

Course Code	CAT-en-WSAT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Systems Architecture Designers
Description	<p>What's New for Systems Architecture Designers introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will learn to create new requirement objects. You will also learn how to simultaneously manage different views. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Systems Architecture 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 module must be familiar with the basics of the 3DEXPERIENCE platform and concepts of System Architecture and Design Review.
Available Online	Yes

CATIA

Systems Modeling and Execution

CATIA Dymola Behavior Modeling Essentials (DBD)

Course Code	CAT-en-DBD-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

Cross-Brand

3DEXPERIENCE Platform

Gateway to the 3DEXPERIENCE platform

Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE Platform
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Filter data
Prerequisites	There are no prerequisites for this course

Gateway to the 3DEXPERIENCE platform

Available Online

Yes

Cross-Brand

Installation and Administration

Baseline Environment Essentials (OCD)

Course Code	CRB-en-OCD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	<p>This course will introduce you to the available customization functions of the 3DEXPERIENCE platform using the Web Administration console. It will also demonstrate the use of the 3DSpace Control Widget and the Content Management functionality. It will describe the Baseline Environment Experience mechanisms for customers who would like to use the OOTB functionality and predefined Schema.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create collaborative spaces and users - Assign required access rights to different users - Explore the 3DSpace Control widget and its related features - Configure the 3DEXPERIENCE platform to add additional features as per requirements
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

DELMIA

3DEXPERIENCE Platform

Gateway to the 3DEXPERIENCE platform

Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE Platform
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Filter data
Prerequisites	There are no prerequisites for this course

Gateway to the 3DEXPERIENCE platform

Available Online

Yes

DELMIA

Industrial Engineering

DELMIA Equipment Design Essentials (DBG)

Course Code	DEL-en-DBG-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Machining Validation Essentials (MSG)

Course Code	DEL-en-MSG-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Milling Machining Essentials (SMG)

Course Code	DEL-en-SMG-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (LMG)

Course Code	DEL-en-LMG-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.</p>

DELMIA Mill-Turn Machining Essentials (LMG)

Available Online

Yes

DELMIA Multi-Axis Machining Essentials (MMG)

Course Code	DEL-en-MMG-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Numerical Control (NC) Programmers
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.</p>
Available Online	Yes

DELMIA Plant Layout Design Essentials (MRL)

Course Code	DEL-en-MRL-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Prismatic and Turning Machining Essentials (LMG1)

Course Code	DEL-en-LMG1-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.</p>

DELMIA Prismatic and Turning Machining Essentials (LMG1)

Available Online

Yes

DELMIA Prismatic Machining Fundamentals (PMG)

Course Code	DEL-en-PMG-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>This course 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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.</p>
Available Online	Yes

DELMIA Robot Arc Simulation Essentials (AWG1)

Course Code	DEL-en-AWG1-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (OLP)

Course Code	DEL-en-OLP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (WSU)

Course Code	DEL-en-WSU-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (SWG1)

Course Code	DEL-en-SWG1-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 V5 to 3DEXPERIENCE Machining Transition (PMGT)

Course Code	DEL-en-PMGT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (PMGT)

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

Available Online

Yes

What's New for 3D Design Manufacturing Engineers (WDME)

Course Code	DEL-en-WDME-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	3D Design Manufacturing Engineers
Description	<p>What's New for 3D Design Manufacturing Engineers introduces the new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. You will be able to use the newly added essentials section to quickly access the most used tools. You will also be able to use new feature enhancements to create mid-planes and mid-points using the robot and define a revolution surface using up-to-element command. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the 3D Design Manufacturing 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 module must be familiar with the basics of the 3DEXPERIENCE platform and 3D design manufacturing concepts.
Available Online	Yes

What's New for Manufacturing Engineers (WPST)

Course Code	DEL-en-WPST-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, Manufacturing Engineers
Description	<p>What's New for Manufacturing Engineers introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically you will learn about using the 3D View panel, managing the color on systems and displaying tracks in the 3D work area. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Manufacturing 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 module must be familiar with the basics of the 3DEXPERIENCE platform and EBOM/MBOM concepts.
Available Online	Yes

What's New for NC Multi-Axis Milling & Turning Programmers (WNMT)

Course Code	DEL-en-WNMT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	0.5 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>What's New for NC Multi-Axis Milling & Turning Programmers introduces you the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically, you will be able to manage the extra material left at flanks of a groove using a groove turning operation. Then, you will be able to define the tool axis at motion level in a sequential turning operation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the NC Multi-Axis Milling & Turning Programmers 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 module must be familiar with DELMIA Mill-Turn Machining in the 3DEXPERIENCE platform.
Available Online	Yes

What's New for NC Multi-Axis Milling Programmer (WNMX)

Course Code	DEL-en-WNMX-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>What's New for Multi-Axis Milling Programmers introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically you will learn about inserting a robot in a machining cell to machine parts. You will also be able to use new multi-axis curve and surface engraving operations to engrave letters on a part. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the NC Multi-Axis Milling 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 module must be familiar with DELMIA Multi-Axis Milling Machining in the 3DEXPERIENCE platform.
Available Online	Yes

What's New for NC Prismatic & Turning Programmers (WNPT)

Course Code	DEL-en-WNPT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	0.5 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>What's New for NC Prismatic and Turning Programmers introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically, you will be able to manage the extra material left at the flanks of a groove using a groove turning operation. You will also be able to define the tool axis at the motion level in a sequential turning operation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the NC Prismatic & Turning Programmers 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 module must be familiar with DELMIA Prismatic and Turning Machining in the 3DEXPERIENCE platform.
Available Online	Yes

What's New for NC Prismatic Programmers (WNPM)

Course Code	DEL-en-WNPM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	<p>What's New for NC Prismatic Programmers introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically, you will be able to learn about reusing an existing NC program of a machining cell in another machining cell to machine similar or identical parts. Then, you will be able to repeat the tool path generated to machine one feature of a part on the identical features of the same part. Further, you will be able to reorder the operations of an NC program. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with DELMIA Prismatic Machining in the 3DEXPERIENCE platform.
Available Online	Yes

What's New for Robotics Arc Engineers (WRAE)

Course Code	DEL-en-WRAE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1.5 hours
Course Material	English
Level	Fundamental
Audience	Robotics Engineers and Simulation Engineers
Description	<p>What's News for Robotics Arc Engineers introduces new and enhanced functionalities applicable to this role in 3DEXPERIENCE R2017x. More specifically you will learn about creating a sealant trajectory, generating/ viewing the detailed arc welding status, modifying an arc trajectory using tag manipulation and updating an arc operation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Robotics Arc Engineer role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform module. They should also be familiar with Robotics Simulation.</p>
Available Online	Yes

What's New for Robotics Engineers (WRTS)

Course Code	DEL-en-WRTS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	0.5 hours
Course Material	English
Level	Fundamental
Audience	Robotics Engineers and Simulation Engineers
Description	<p>What's New for Robotics Engineers introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically you will learn about creating a safety envelope for a robot. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Robotics Engineers role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	<p>Students attending this module should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Mechanical Design concepts.</p>
Available Online	Yes

What's New for Robotics Spot Engineers (WRSE)

Course Code	DEL-en-WRSE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Spot Welding Engineers
Description	<p>What's New for Robotics Spot Engineers introduces the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically, you will learn about analyze results and create trajectory. You will also be able to create a rivet profile, a rivet trajectory and a rivet operation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Robotics Spot Engineers role - Put in practice the enhancements that you have learnt to apply them on the operations that you perform under this role
Prerequisites	<p>Students attending this module should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should have completed the DELMIA Robot Simulation Essentials course.</p>
Available Online	Yes

What's New for Shop Floor Equipment Engineers (WEQE)

Course Code	DEL-en-WEQE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Equipment Engineers and Device Builders
Description	<p>What's New for Shop Floor Equipment Engineers introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically you will learn about creating the conveyor referential profile and the conveyor tracking profile. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the 3DEXPERIENCE platform and device kinematics.
Available Online	Yes

DELMIA

Manufacturing Engineering

DELMIA Manufactured Item Definition Essentials (PRD)

Course Code	DEL-en-PRD-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Assembly Evaluation Essentials (FIT)

Course Code	DEL-en-FIT-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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.

DELMIA Manufacturing Assembly Evaluation Essentials (FIT)

Available Online

Yes

DELMIA Manufacturing Equipment Allocation Essentials (MLB)

Course Code	DEL-en-MLB-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Planning Structure Essentials (PRR)

Course Code	DEL-en-PRR-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (MSD)

Course Code	DEL-en-MSD-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (STM)

Course Code	DEL-en-STM-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (WKD)

Course Code	DEL-en-WKD-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Process Planners (WPPL)

Course Code	DEL-en-WPPL-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	3 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, Manufacturing Engineers
Description	<p>What's New for Process Planners introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. Using these functionalities, you will be able to use the 3D View panel, manage objects in the Relations window, assign resources to an operation, use the Resource Utilization Gantt Chart, Manufacturing Utilization Gantt Chart, view the Workload Balancing and specify the the Computed Cycle Time for a Process Plan. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Process Planner 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 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 (WMAE)

Course Code	DEL-en-WMAE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Simulation Engineers, Industrial Engineers and Mechanical Engineers
Description	<p>What's New for Process Simulation Analysts introduces you to the new and enhanced functionalities of this role in 3DEXPERIENCE R2017x. More specifically you will learn about highlighting moving objects during track selection and track simulation. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Process Simulation Analyst 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 module must be familiar with the 3DEXPERIENCE platform. They should also be familiar with the Mechanical Engineering concepts.
Available Online	Yes

What's New for Time Study Analysts (WTMA)

Course Code	DEL-en-WTMA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	3 hours
Course Material	English
Level	Fundamental
Audience	Time Study Analysts
Description	<p>What's New for Time Study Analysts introduces you to the new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. More specifically, you will be able to customize the value added cells, manage the time analysis line, insert existing time analysis using PLM chooser, manage simultaneous motions in MOST, display MOST code sequence as per norm, use MTM standard paper based datacards and check the rules automatically. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the 3DEXPERIENCE platform.
Available Online	Yes

What's New for Work Instructions Designers (WWKS)

Course Code	DEL-en-WWKS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Work Instructions Designer
Description	<p>What's New for Work Instructions Designers introduces you to the new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. More specifically you will learn about activating views on selecting the operation, creating 3D views with line marker, adding the text marker emoticons, formatting the measurements marker, creating the 3D views with label marker and customizing the background for views in document. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Work Instructions 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 module must be familiar with the basics of the 3DEXPERIENCE platform and EBOM/MBOM concepts.
Available Online	Yes

ENOVIA

3DEXPERIENCE Platform

Gateway to the 3DEXPERIENCE platform

Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE Platform
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Filter data
Prerequisites	There are no prerequisites for this course

Gateway to the 3DEXPERIENCE platform

Available Online

Yes

ENOVIA

Application Lifecycle Services

ENOVIA Collaboration and Approvals Essentials (BUPS)

Course Code	ENOV-en-BUPS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform Users
Description	<p>This course will teach you the common functionalities used throughout the 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 and version your documents, while maintaining a record for all its revisions.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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.

ENOVIA Collaboration and Approvals Essentials (BUPS)

Available Online

Yes

ENOVIA Collaboration for Microsoft Essentials (COMI)

Course Code	ENOV-en-COMI-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Project Managers, Design Engineers, Reviewers and Technical Writers.
Description	This course will teach you how to use the ENOVIA Collaboration for Microsoft App to access and manage the documents in the ENOVIA database using the Microsoft applications.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (LIIN)

Course Code	ENOV-en-LIIN-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	CAD designers, engineers in charge of product development
Description	Integrated and built on a common architecture with 3DEXperience Platform, Collaborative Lifecycle Management Essentials helps medium to large companies take more innovative products to market faster by providing collaborative Virtual Product Management of complex product, process and resource information—from marketing and design to manufacturing and maintenance.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create a new product structure - Manage the changes in a product structure - Collaborate with Engineering BOM - Manage VPM documents - Manage Variant capability
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform and should be familiar with Part Design and Assembly Design in CATIA.
Available Online	Yes

ENOVIA X-CAD Design Management Essentials (XCAD)

Course Code	ENOV-en-XCAD-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - Product Engineers and Design Engineers - Business Administrators and System Administrators
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Explore the XCAD 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	<p>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.</p>
Available Online	Yes

What's New for Collaborative Innovation (WCNV)

Course Code	ENOV-en-WCNV-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Collaborative Innovation introduces you to the new and enhanced functionalities in the Collaborative Innovation option. In the X-CAD Design app, you will learn how to assign target folders to individual design documents when you save the document. You will also learn about an additional method of structure expansion before opening it. You will be introduced to the new and enhanced functionalities in the ENOVIA Collaboration and Approvals app, ENOVIA Classify and Reuse app and the Collaboration for Microsoft app. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Collaborative Innovation 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 module must be familiar with the basics of the 3DEXPERIENCE platform.

What's New for Collaborative Innovation (WCNV)

Available Online

Yes

What's New for Reviewers and Approvers (WRWA)

Course Code	ENOV-en-WRWA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Reviewers and Approvers introduces you to the new and enhanced functionalities in the Review and Approve role. In the ENOVIA Collaboration and Approvals app, you will be able to use the enhanced 3DSearch, predefined queries, 3DPlay, Issue Categories, IconMail and Find-In functionalities. You will also be able to use the new and enhanced functionalities in the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform.
Available Online	Yes

ENOVIA

Global Product Development

ENOVIA Design Review Essentials (REEV)

Course Code	ENOV-en-REEV-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create a design review. You will learn 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Engineering BOM Management Essentials (ENBO)

Course Code	ENOV-en-ENBO-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Design Engineers and Manufacturing Engineers
Description	This course will teach you how to use ENOVIA Engineering BOM Management to manage the engineering change process. You will learn how to create parts and specifications and raise Change Requests on the parts and specifications. You will also learn to create Change Orders to address the design modifications raised in Change Requests. Further, you will learn how to generate various types of reports.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create parts and specifications - Create and edit Bill of Materials - Create a Change Request to make the changes in a part or a specification - Complete Change Orders and Change Actions to implement the changes - Review and release the parts
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 On-The-Go Essentials (ONGO)

Course Code	ENOV-en-ONGO-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

What's New for Defect Engineers (WISM)

Course Code	ENOV-en-WISM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Defect Engineers introduces you to the new and enhanced functionalities for a Defect Engineer's role. In the ENOVIA Defect Management and Collaboration app you will be able to use the enhanced 3DSearch and predefined queries. You will be introduced to enhancements in creating hierarchical references and managing and exporting product hierarchies to the DesignSync Server. You will also learn the use of other new and improved features in the ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Defect 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 module must be familiar with the basics of the 3DEXPERIENCE platform and defect concepts.

What's New for Defect Engineers (WISM)

Available Online

Yes

What's New for Design Reviewers (WDER)

Course Code	ENOV-en-WDER-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	Design Reviewers
Description	<p>What's New for Design Reviewers introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2017x. You will be able to use the Text, Audio and Picture Markers more effectively. You will also be able to create section using a surface and export the sections using the context toolbars. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Design Reviewer 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 module must be familiar with the basics of the 3DEXPERIENCE platform and mechanical design concepts.
Available Online	Yes

What's New for Product Architects (WPDA)

Course Code	ENOV-en-WPDA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Product Architects introduces you to the new and enhanced functionalities for the Product Architect's role. In the ENOVIA Variant Management app, you will be introduced to enhancements for the change order, change action, change request, effectivities and matrix rules. You will also learn the use of other new and improved features in the ENOVIA Traceable Requirement Management, ENOVIA Engineering BOM management, ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the Product Architect's role in the 3DEXPERIENCE platform.

What's New for Product Architects (WPDA)

Available Online

Yes

What's New for Product Engineers (WPDE)

Course Code	ENOV-en-WPDE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Product Engineers introduces you to the new and enhanced functionalities for a Product Engineer's role. In the ENOVIA Engineering BOM Management app you will be able to use the enhanced My Engineering View, 3DSearch, predefined queries and 3DPlay functionalities. You will be introduced to enhancements in Create, Revise, Clone and Edit Part, Specification. You will also learn the use of other new and improved features in the ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the 3DEXPERIENCE platform and product concepts.

What's New for Product Engineers (WPDE)

Available Online

Yes

What's New for Product Managers (WPDM)

Course Code	ENOV-en-WPDM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Product Managers introduces you to the new and enhanced functionalities for the Product Manager's role. In the ENOVIA Variant Management app, you will be introduced to enhancements for the 3DSearch, predefined queries and matrix rules. You will also learn the use of other new and improved features in the ENOVIA Traceable Requirement Management, ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the Product Manager's role in the 3DEXPERIENCE platform.

What's New for Product Managers (WPDM)

Available Online

Yes

ENOVIA

Installation and Administration

3DEXPERIENCE Open Cloud Essentials (PCS)

Course Code	ENOV-en-PCS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Any cloud administrator.
Description	<p>This course will guide the user through the main items of the administration of a cloud environment. It covers the initialization of the environment, with the invitation of users and the management of roles. Then this lesson explains how to manage the various applications of the 3DEXPERIENCE Platform: 3DDashboard, 3DSwym, 3DSearch, 6WTags and 3DSpace.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Learn how to administrate a cloud environment. - Invite users. - Assign licenses. - Create dashboards. - Manage communities and collaborative spaces. - Understand the new Release functionalities.
Prerequisites	None.
Available Online	Yes

ENOVIA

IP Classification and Protection

ENOVIA Classify and Reuse Essentials (CLRE)

Course Code	ENOV-en-CLRE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform Users.
Description	<p>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 objects' hierarchy. You will also learn how to manage the objects using these libraries. Based on a combination of videos, theory and simulations, this course can be taken in self-paced learning mode and it is self-sufficient. However, if you want to practice, you will find a master project at the end of the course. The data needed to play these exercises is available to administrators and instructors in Companion Learning Space. In this case, a software installation will be required.</p>
Objectives	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> - Search and view different types of Libraries and their related hierarchy. - Search and view General Classes and Folders.
Prerequisites	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and should be familiar with Collaboration and Approvals in ENOVIA.</p>
Available Online	Yes

What's New for Classification Managers (WCCM)

Course Code	ENOV-en-WCCM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Classification Managers introduces you to new and enhanced functionalities for a Classification Manager's role. In the ENOVIA IP Classification app, you will learn how access management is changed. You will also learn how to search IP Classification app specific objects. You will learn more about the use of other improved features of the ENOVIA Collaboration and Approvals and the Collaboration for Microsoft apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Classification 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 module must be familiar with the Classification Manager's role in the 3DEXPERIENCE platform.
Available Online	Yes

What's New for IP Security Managers (WIPS)

Course Code	ENOV-en-WIPS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for IP Security Managers introduces you to the new and enhanced functionalities in the IP Security Manager's role. In the ENOVIA IP Protection Classification app, you will be able to use the enhanced 3DSearch and predefined queries. You will also be able to use the new and enhanced functionalities in the ENOVIA Collaboration and Approvals and the Collaboration for Microsoft apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the basics of the 3DEXPERIENCE platform and IP security concepts.
Available Online	Yes

What's New for Project Managers (WDPM)

Course Code	ENOV-en-WDPM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Project Managers introduces you to the new and enhanced functionalities for a Project Manager's role. In the ENOVIA Project Management app you will be able to use the new features to create versions of a project template and add or remove co-owners from it. You will be introduced to enhancements in the Gantt chart, Baselines and Experiments functionalities. You will also learn the use of other new and improved features in the ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the Project Manager's role in the 3DEXPERIENCE platform.

What's New for Project Managers (WDPM)

Available Online

Yes

ENOVIA

Product Planning and Program Management

ENOVIA Project Execution Essentials (PREX)

Course Code	ENOV-en-PREX-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Project Members
Description	This course will teach how to use the Project Execution app to manage your assigned tasks. You will be able to create projects and its schedule, modify the tasks, record the risks and create timesheets.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create projects - Create and edit the project schedule - Create and assign access to folders - Record risks for projects and tasks - Create and submit timesheets
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 Project Management Advanced (PRPR)

Course Code	ENOV-en-PRPR-A-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (PRPR)

should be familiar with ENOVIA Project Management Fundamentals.

Available Online

Yes

ENOVIA Project Management Fundamentals (PRPR)

Course Code	ENOV-en-PRPR-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 Team Members (WDPJ)

Course Code	ENOV-en-WDPJ-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Project Team Members introduces you to the new and enhanced functionalities for the Project Team Member's role. The ENOVIA Project Execution app will introduce you to various enhancements for the lifecycle and Gantt chart for a project. You will learn more about the use of other improved features of the ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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 module must be familiar with the Project Team Member's role in the 3DEXPERIENCE platform.
Available Online	Yes

ENOVIA

Quality and Compliance Management

ENOVIA Materials Compliance Reporting Essentials (MADA)

Course Code	ENOV-en-MADA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 and should be familiar with Collaboration and Approvals in ENOVIA. They should also be familiar with Materials Compliance management.
Available Online	Yes

What's New for Materials Compliance Managers (WMCM)

Course Code	ENOV-en-WMCM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Material Compliance Managers introduces you to the new and enhanced functionalities for a Compliance Manager's role. In the ENOVIA Material Compliance Management app you will be able to use the enhanced 3DSearch and predefined queries functionalities. You will be introduced to changes in creating a material compliance part, enhancements in Category menu, Compliance Properties and Compliance PowerView of a part. You will also learn the use of other new and improved features in the ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - 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

What's New for Materials Compliance Managers (WMCM)

Prerequisites

Students attending this module must be familiar with the basics of the 3DEXPERIENCE platform and materials compliance concepts.

Available Online

Yes

What's New for Requirements Managers (WTRM)

Course Code	ENOV-en-WTRM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	3 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform users
Description	<p>What's New for Requirements Managers introduces you to the new and enhanced functionalities for this role. In the ENOVIA Traceable Requirements Management app, you will be introduced to the enhanced features for creating and editing rich text for requirement objects and the requirement capture toolbar. You will also learn about the new and improved features in the ENOVIA Collaboration and Approvals, the Collaboration for Microsoft and the ENOVIA Classify and Reuse apps. Based on a combination of videos, theory and simulations, this module can be taken in self-paced learning mode. It is self-sufficient and does not require any software installation or additional data.</p>
Objectives	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> - Describe the impact of the new capabilities on the Requirements 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 module must be familiar with the Requirements Manager's role in the 3DEXPERIENCE platform.

What's New for Requirements Managers (WTRM)

Available Online

Yes

ENOVIA

Strategic Customer Relationship Management

ENOVIA Traceable Requirements Management Essentials (RERE)

Course Code	ENOV-en-RERE-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (RERE)

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

SIMULIA

3DEXPERIENCE Platform

Gateway to the 3DEXPERIENCE platform

Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE Platform
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 - Filter data
Prerequisites	There are no prerequisites for this course

Gateway to the 3DEXPERIENCE platform

Available Online

Yes

SIMULIA

Multiphysics Simulation

SIMULIA 3DPlay Simulation Experience Essentials (3DP)

Course Code	SIM-en-3DP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Replay simulation experiences in 3DPlay - Perform lightweight visualization through web browsers
Prerequisites	None
Available Online	Yes

SIMULIA Composites Simulation Engineer Essentials (SCI)

Course Code	SIM-en-SCI-F-15-171
Available Release	3DEXPERIENCE R2017x
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: <ul style="list-style-type: none"> - Perform simulations of composite materials
Prerequisites	<ul style="list-style-type: none"> - 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 Durability Validation Essentials (DURV)

Course Code	SIM-en-DURV-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - The following course is required prior to taking this one: - Structural Validation Essentials
Available Online	Yes

SIMULIA Fluid Mechanics Analyst Essentials (FLA)

Course Code	SIM-en-FLA-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following roles: - Fluid Mechanics Analyst - Multiphysics Simulation Researcher
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Set up and create CFD and CHT models in the 3DEXPERIENCE Platform - Perform CFD analyses - Perform fully coupled CHT analyses - Postprocess CFD and CHT results
Prerequisites	None
Available Online	Yes

SIMULIA Fluid Mechanics Validation Essentials (FLOV)

Course Code	SIM-en-FLOV-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Search and manage simulation data in the database - Perform 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 (DYNS)

Course Code	SIM-en-DYNS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following roles: - Structural Vibration Analyst - Noise & Vibration Analyst
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Perform linear dynamics simulations - Perform coupled structural-acoustic simulations - View and evaluate simulation results
Prerequisites	<ul style="list-style-type: none"> - The following course is required prior to taking this one: - Structural Model Creation Essentials
Available Online	Yes

SIMULIA Mechanical Scenario Creation Essentials (MECS)

Course Code	SIM-en-MECS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following roles: - Mechanical Analyst - Multiphysics Simulation Researcher
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Perform structural simulations (linear and nonlinear; statics and dynamics) - Perform thermal simulations - View and evaluate simulation results
Prerequisites	<ul style="list-style-type: none"> - The following course is required prior to taking this one: - Structural Model Creation Essentials
Available Online	Yes

SIMULIA Model Assembly Design Essentials (MSAM)

Course Code	SIM-en-MSAM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following roles: - Assembly Modeling Specialist - Finite Element Modeling & Assembly Specialist
Description	<p>This course is 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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create external simulation representations. - Perform automated modeling.
Prerequisites	Structural Model Creation: Geometry and Meshing
Available Online	Yes

SIMULIA Performance Study Essentials (DISB)

Course Code	SIM-en-DISB-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Instantiate Simulation Processes from Simulation Experiences - Run and monitor Simulation Processes - Manage Simulation Processes
Prerequisites	None
Available Online	Yes

SIMULIA Physics Results Explorer Essentials (PHYR)

Course Code	SIM-en-PHYR-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - View and evaluate simulation results
Prerequisites	None
Available Online	Yes

SIMULIA Process Composer Essentials (PRCW)

Course Code	SIM-en-PRCW-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following roles: - Mechanical Analyst - Structural Vibration Analyst - Noise & Vibration Analyst - Fluid Mechanics Analyst - Multiphysics Simulation Researcher - Finite Element Modeling & Assembly Specialist - Simulation Process Method Developer
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Compose Simulation Processes - Produce Simulation Experiences
Prerequisites	None
Available Online	Yes

SIMULIA Process Experience Studio Essentials (EXPS)

Course Code	SIM-en-EXPS-F-15-171
Available Release	3DEXPERIENCE R2017x
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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (REII)

Course Code	SIM-en-REII-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following roles: - Simulation Process Method Developer - Results Data Analyst
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Initialize an analytics case - Conduct trade-off analyses - Select the best alternative
Prerequisites	None
Available Online	Yes

SIMULIA Simulation Companion Essentials (COMP)

Course Code	SIM-en-COMP-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the Simulation Asset Management role.
Description	This course is an introduction to the light weight web-based tool in the 3DEXPERIENCE Platform that allows methods developers and engineers to quickly test and create ad-hoc simulation processes. This app provides tools and infrastructure to run a program and manage both the input and output data.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Complete basic ad-hoc simulation workflows using Simulation Companion - Set up a 3DDashboard experience for conducting ad-hoc simulation workflows - Initialize and manage a new ad-hoc simulation workflow - Configure and run simulation tools - Manage Simulation Companion processes
Prerequisites	None
Available Online	Yes

SIMULIA Simulation Model Design Essentials (SML)

Course Code	SIM-en-SML-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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 (MECM2)

Course Code	SIM-en-MECM2-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Clean and repair native and imported geometry. - Use advanced meshing techniques.
Prerequisites	<ul style="list-style-type: none"> - The following course is required prior to taking this one: - Structural Model Creation Essentials
Available Online	Yes

SIMULIA Structural Model Creation Essentials (MECM)

Course Code	SIM-en-MECM-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create complete Finite Element models for structural and thermal simulations
Prerequisites	None
Available Online	Yes

SIMULIA Structural Scenario Creation Essentials (EMCS)

Course Code	SIM-en-EMCS-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - 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	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Perform structural simulations (linear and nonlinear; statics and dynamics) - Perform thermal simulations - View and evaluate simulation results
Prerequisites	<ul style="list-style-type: none"> - The following course is required prior to taking this one: - Structural Model Creation Essentials
Available Online	Yes

SIMULIA Structural Validation Essentials (STRV)

Course Code	SIM-en-STRV-F-15-171
Available Release	3DEXPERIENCE R2017x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - This course is intended for the following role: - Stress Engineer
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - 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

