

# COURSE CATALOG

3DEXPERIENCE R2014X  
July 2014



**3DEXPERIENCE**

# 3DS Learning Solutions | Course Catalog

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# CATIA 3DEXPERIENCE Platform

## Gateway to the 3DEXPERIENCE Platform (GTX)

Course Code	CAT-en-GTX-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Users of the 3DEXPERIENCE Platform
Description	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. Short videos will show you how to search and visualize the results, explore or open your 3D data, filter the data, manipulate the tree, use the basic functionalities (section, favorites, change view,...).
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Understand the 3DEXPERIENCE interface</li> <li>- Connect to the 3DEXPERIENCE Platform</li> <li>- Access your Dashboard</li> <li>- Use the 6WTags for searching content</li> <li>- Share various documents with other users through 3DSpace</li> <li>- Use standard menus and commands</li> <li>- Explain the functionalities of various apps in the 3DEXPERIENCE Platform</li> <li>- Import new data and export them as 3D XML files</li> <li>- Search for a 3D data using different methods</li> <li>- Explore and open 3D data</li> <li>- Manipulate the tree</li> <li>- Filter data</li> </ul>
Prerequisites	There are no prerequisites for this course

## Gateway to the 3DEXPERIENCE Platform (GTX)

Available Online

Yes

# CATIA

## 3D Modeling

CATIA Generative Shape Design Essentials (GSD)	
Course Code	CAT-en-GSD-F-15-141
Available Release	3DEXPERIENCE R2014x
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"> <li>- Create curves and improve the quality of the imported wireframes</li> <li>- Create surfaces based on the wireframe geometries</li> <li>- Assemble, re-limit and connect the surfaces smoothly to achieve the topology</li> <li>- Analyze the surface quality and heal the defects</li> </ul>
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-15-141
Available Release	3DEXPERIENCE R2014x
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"> <li>- Create curves and improve the quality of the imported wireframes</li> <li>- Create surfaces based on the wireframe geometries</li> <li>- Assemble, re-limit and connect the surfaces smoothly to achieve the topology</li> <li>- Analyze the surface quality and heal the defects</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Natural Shape Essentials (LSP)	
Course Code	CAT-en-LSP-F-15-141
Available Release	3DEXPERIENCE R2014x
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 to allow you to practice using the tools. You will 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"> <li>- Create a conceptual design directly in 3D</li> <li>- Use the hybrid design environment to conceptualize your designs</li> <li>- Work on the structure to create the 3D parts</li> <li>- Navigate through the structure and position the parts</li> <li>- Reuse the existing designs in the 3D models</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Part Design Essentials (PDG)	
Course Code	CAT-en-PDG-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Design Engineers
Description	This course will teach you how to create a 3D model using Part Design app in the 3DEXPERIENCE platform. You will learn different feature-based tools to build a 3D model and some tools for review and modification of the model.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create a New PLM Object</li> <li>- Create and constrain 2D sketches</li> <li>- Complete a 3D model using features</li> <li>- Review and edit the features</li> <li>- Re-use the existing features in 3D models</li> <li>- Create advanced sketch-based and surface features</li> <li>- Create parameters and formulas in the 3D model</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

## Transition to the 3DEXPERIENCE Platform for Designers (3DT)

Course Code	CAT-en-3DT-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Designers who need to work with mechanical and styled parts, CATIA V5 Designers
Description	<p>This course addresses the needs of both Mechanical and Surface 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. There are specific exercises for Mechanical and Surface Designers at the end of the course.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create new products and parts</li> <li>- Insert a part in a product and position it</li> <li>- Apply materials to parts</li> <li>- Calculate the weight of a product</li> <li>- Insert and complete a drawing</li> <li>- Create a new part version</li> <li>- Replace a part and update a product</li> </ul>

## Transition to the 3DEXPERIENCE Platform for Designers (3DT)

Prerequisites

Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. They should also be familiar with V5 Part Design and Assembly Design workbenches.

Available Online

Yes

# CATIA

## 3DSOpen Apps

CATIA Engineering Rules Capture Essentials (KWA)	
Course Code	CAT-en-KWA-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers
Description	This course will teach you how to create Knowledge Advisor 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"> <li>- Customize the specification tree to display knowledgware features</li> <li>- Create parametric models</li> <li>- Embed your design knowledge in the models</li> <li>- Automate the design and modification processes</li> <li>- Create design configurations using design tables</li> </ul>
Prerequisites	Students attending this course should be familiar with the basics of CATIA and Enterprise Knowledge Language (EKL)
Available Online	Yes

## CATIA Engineering Templates Capture Essentials (PKT)

Course Code	CAT-en-PKT-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Design Engineers
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"> <li>- Create engineering templates</li> <li>- Reuse the templates in a new context</li> </ul>
Prerequisites	<ul style="list-style-type: none"> <li>- Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.</li> <li>- They should also be familiar with Part Design Essentials and the Engineering Rules Capture courses.</li> </ul>
Available Online	Yes

Introduction to Enterprise Knowledge Language (EKL)	
Course Code	CAT-en-EKL-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical, Electrical and Piping Design Engineers
Description	This course will introduce you to Enterprise Knowledge Language, the driving force behind the Knowledgeware workbenches, which allow 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"> <li>- Describe the EKL syntax and its usage</li> <li>- Directly manipulate CATIA objects through EKL scripts</li> <li>- Embed design logic in CATIA models using EKL</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should also be familiar with CATIA Mechanical Design fundamentals.
Available Online	Yes

# CATIA Mechanical Systems

CATIA 3D Annotation Insight Essentials (LFT)	
Course Code	CAT-en-LFT-F-15-141
Available Release	3DEXPERIENCE R2014x
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 dimensions and the tolerance 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"> <li>- Access and visualize View, Capture and Annotation review features</li> <li>- Show / Hide individual 3D annotations and all annotations of a given type</li> <li>- Display FTA captures</li> <li>- Remove the FTA Clipping Plane of a capture</li> <li>- Filter the 3D annotations</li> </ul>
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 Compose Essentials (LCP)	
Course Code	CAT-en-LCP-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers and Designers, and Design Architects
Description	This course will teach you how to create and manage product structures. You will explore a product and modify its structure by adding new products and exploding existing products. You will then scan the structure to activate a working product level, search for and add existing parts and use constraints to position the parts. Finally, you will create a new sub-product from a components list and use it to complete the product.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Explore a product and modify its structure using 3D Compose</li> <li>- Select the various working product levels using the Ladderfunctionality of 3D Compose</li> <li>- Search for a product and insert it in an existing assembly</li> <li>- Position the parts using constraints</li> <li>- Create a new sub-product from a component's list and use it to complete the product</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Assembly Design Essentials (ASD)	
Course Code	CAT-en-ASD-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Design Engineers
Description	This course will teach you how to create a simple product structure, and how to add existing components and position them correctly. You will also learn how to analyze assemblies, design complex parts within an assembly environment and manage complex product structures.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create a new product and add components to it</li> <li>- Move the components within a product by positioning them using assembly constraints</li> <li>- Modify an existing product structure</li> <li>- Design new parts in the context of a product</li> <li>- Check the mechanical properties of a product and analyze its degrees of freedom</li> <li>- Analyze interferences between parts and perform measurements</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and the CATIA Part Design Essentials courses.
Available Online	Yes

CATIA Drafting Essentials (GDR)	
Course Code	CAT-en-GDR-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Draftsmen
Description	<p>This course will teach you how to create drawings using the Drafting app. You will learn how to produce a drawing by creating projection views and section views of a 3D model and adding basic dimensions. You will also learn how to use advanced tools to dress-up, annotate views and to customize the Drafting app to suit your needs.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Configure the Drafting app to meet your specific requirements</li> <li>- Create simple projection views and section views of 3D parts</li> <li>- Position the views on a drawing sheet</li> <li>- Add dimensions and annotations to the views</li> <li>- Finalize the drawing sheet by adding borders and titleblocks.</li> <li>- Work with large assemblies</li> <li>- Create interactive views and geometry to prepare 2D drawings</li> </ul>
Prerequisites	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and the CATIA 3DEXPERIENCE Part Design Essentials course.</p>

## CATIA Drafting Essentials (GDR)

Available Online

Yes

CATIA Mechanical Systems Design Essentials (KIM)	
Course Code	CAT-en-KIM-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers
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"> <li>- Create a new mechanism architecture</li> <li>- Include alternative representations to complete the mechanism</li> <li>- Create a new macro mechanism from existing sub-mechanisms</li> <li>- Animate the mechanism</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and the CATIA Assembly Design Essentials courses.
Available Online	Yes

CATIA Mechanical Systems Experience (KIN)	
Course Code	CAT-en-KIN-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical 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 analysis of measurements and accelerations. Further, 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"> <li>- Create a scenario manually or by using laws</li> <li>- Include measurement and interference analyses</li> <li>- Generate results</li> <li>- Create snapshots for review</li> <li>- Export the final simulation</li> </ul>
Prerequisites	Students attending this course should have attended the CATIA Mechanical Systems Design Essentials course.
Available Online	Yes

# CATIA Multi-Discipline Engineering

CATIA Bent Part Design Essentials (SMB)	
Course Code	CAT-en-SMB-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Structural Designers
Description	This course will teach you how 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"> <li>- Define and modify the sheetmetal parameters</li> <li>- Create a sheetmetal part using the wall and bend features</li> <li>- Manage the folded and unfolded views of parts</li> <li>- Create cutouts, chamfers and corners</li> <li>- Constrain the parts</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Sheet Metal Design Essentials (SMD)	
Course Code	CAT-en-SMD-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Structural Designers
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"> <li>- Create a sheet metal part using wall and bend features</li> <li>- Create stamped features</li> <li>- Use pre-defined sheet metal parameters</li> <li>- Manage folded and unfolded views</li> <li>- Export a finished flat pattern</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and the CATIA Part Design Essentials courses.
Available Online	Yes

CATIA Weld Design Essentials (WDG)	
Course Code	CAT-en-WDG-F-15-141
Available Release	3DEXPERIENCE R2014x
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.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create and manage welded assemblies</li> <li>- Generate weld reports</li> <li>- Create welding drawings</li> </ul>
Prerequisites	Students attending this course should have completed the CATIA Assembly Design Essentials course.
Available Online	Yes

# CATIA Styling

CATIA Imagine and Shape Essentials (IMA)	
Course Code	CAT-en-IMA-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Shape Designers, Product Stylists and Industrial Designers
Description	This course will teach you how to use the CATIA Imagine & Shape app to create, modify and improve product shapes and styles. You will learn how to use the Sketch Tracer app to import stylist's images in the 3DEXPERIENCE platform. You will also learn how to create an environment for a designed model and render it.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Import and position sketches in CATIA</li> <li>- Create subdivision surfaces using tools specific to the Imagine and Shape app</li> <li>- Modify the style surfaces using Generative Shape Design tools</li> <li>- Create the required environment around a model</li> <li>- Apply materials, textures and 3D textures to the created models</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of CATIA Mechanical and Shape.
Available Online	Yes

# CATIA

## Systems Modeling and Execution

CATIA Dymola Behavior Modeling Essentials (DBD)	
Course Code	CAT-en-DBD-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Electrical System Design Engineers
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 Modeling (DBM) libraries. You will also learn how to manage a link between a logical component and a DBM model.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Search and open the Dymola behavior library</li> <li>- Edit and simulate an existing dynamic behavior model</li> <li>- Create a new dynamic model and an icon for it</li> <li>- Insert the model into a functional or logical component</li> <li>- Simulate the logical component with behavior in the Functional &amp; Logical Design app</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should have completed the CATIA Functional and Logical Design Essentials course.
Available Online	Yes

# DELMIA Industrial Engineering

## DELMIA Manufacturing Equipment Design Essentials (DBG)

Course Code	DEL-en-DBG-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Design Engineers, Device Builders
Description	This course will teach you to build engineering connections and kinematic mechanism for a product. These mainly comprise the Robot and the NC Machine. You will learn how to generate device specific resources. You will also learn to define various attributes such as travel limits, home positions, ports and mount points for a device. This aids in the intended functioning of a device in a manufacturing industry.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Define Kinematics for a device</li> <li>- Generate a device resource using the kinematic mechanisms</li> <li>- Define the Robot and NC Machine attributes</li> </ul>
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 Milling Machining Essentials (SMG)	
Course Code	DEL-en-SMG-F-15-141
Available Release	3DEXPERIENCE R2014x
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"> <li>- Create Machining Features</li> <li>- Define 3-Axis Surface Machining operations</li> <li>- Define a Rework Area</li> <li>- Analyze and modify the Tool path</li> </ul>
Prerequisites	Students attending this course should have completed the DELMIA Prismatic Machining Fundamentals courses.
Available Online	Yes

DELMIA Multi-Axis Machining Essentials (MMG)	
Course Code	DEL-en-MMG-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Numerical Control (NC) Programmers
Description	This course teaches you how to generate high quality NC programs for machining complex 3D parts and free-form shapes using advanced machining techniques. You will learn how to perform 2.5 to 5-Axis machining operations.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Define multi-axis finishing and contouring operations</li> <li>- Define multi-pockets machining operations</li> <li>- Define multi-axis helix machining operation</li> </ul>
Prerequisites	Students attending this course should have completed the Prismatic Machining Fundamentals and the DELMIA Milling Machining Essentials courses.
Available Online	Yes

DELMIA Prismatic Machining Advanced (PMG)	
Course Code	DEL-en-PMG-A-15-141
Available Release	3DEXPERIENCE R2014x
Duration	20 hours
Course Material	English
Level	Advanced
Audience	NC Programmers
Description	This course will teach you how to manage the NC resources and associate a user representation to a tool. It will also teach you to copy and transform the machining operations to machine similar profiles in a part. You will learn about the automation processes and how to optimize a program using the Auto Sequencing functionality. You will also learn how to save a video simulation result into a 3D Part.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create the tools catalog to manage tools and tool assemblies</li> <li>- Associate a user representation to a tool assembly</li> <li>- Create and instantiate a Machining Process catalog</li> <li>- Create a Machining Template for Resources and Programming</li> <li>- Optimize a program using the Auto Sequencing functionality</li> <li>- Copy and transform the machining operations to machine similar profiles in a part</li> <li>- Customize a PP Word Table</li> <li>- Save the video simulation result into a 3DPart</li> </ul>
Prerequisites	Students attending this course should have completed the DELMIA Prismatic Machining Fundamentals course.

**DELMIA Prismatic Machining Advanced (PMG)**

Available Online

Yes

DELMIA Prismatic Machining Fundamentals (PMG)	
Course Code	DEL-en-PMG-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	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.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Define the infrastructure required for machining</li> <li>- Create tools and tool assemblies</li> <li>- Define prismatic machining operations</li> <li>- Replay and simulate tool paths</li> <li>- Simulate a machine using the simulation object</li> <li>- Generate the Numerical Control (NC) output</li> </ul>
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 Manufacturing Engineering

## DELMIA Manufactured Item Definition Essentials (PRD)

Course Code	DEL-en-PRD-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designers, Process Planners
Description	This course will teach you how to define manufactured items and author assemblies. You will learn how to manage the product to manufactured item assignments. 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 assembly structure.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Manage the Manufactured Item-Product scope</li> <li>- Author manufacturing assemblies</li> <li>- Assign products to manufactured items</li> <li>- Generate manufacturing assemblies from a product structure</li> </ul>
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-15-141
Available Release	3DEXPERIENCE R2014x
Duration	6 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"> <li>- Determine the assembly feasibility of manufactured parts</li> <li>- Define, simulate and review the entire process to identify potential design issues</li> <li>- Create product assembly simulation to analyze the impact on the shop floor</li> <li>- Perform the assembly sequence analysis</li> <li>- Analyze multiple assembly scenarios to determine the most optimal process</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course. Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course.

## DELMIA Manufacturing Assembly Evaluation Essentials (FIT)

They should also be familiar with the Mechanical Engineering concepts.

Available Online

Yes

## DELMIA Manufacturing Equipment Allocation Essentials (MLB)

Course Code	DEL-en-MLB-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Manufacturing Engineers, Resource Planners
Description	This course will teach you how to create and manage resource structure. You will learn how to assign operation to resource by using the different assignment techniques. You will also learn how to balance the operation 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"> <li>- Manage the scope between the Resources and the Systems</li> <li>- Assign Resources to Operations</li> <li>- Plan for capacity using the Resource Utilization Gantt chart</li> <li>- Define the working position and manage the walkway</li> <li>- Simulate the Resource Plant</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform, DELMIA Manufacturing Item Definition Essentials and DELMIA Manufacturing Process Planning Essentials courses.
Available Online	Yes

## DELMIA Manufacturing Process Planning Essentials (MSD)

Course Code	DEL-en-MSD-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Manufacturing Engineers
Description	This course will teach you how to create and manage the manufacturing system. You will learn how to perform automatic line balancing. You will also learn how to manage the multi-model sessions.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Author system structures and create product flows</li> <li>- Manage system structures and operations</li> <li>- Manage the System-Manufactured Item scope</li> <li>- Assign manufactured items to operations</li> <li>- Generate a system structure from the manufacturing item structure</li> <li>- Author operations and add constraints between operations</li> <li>- Assign manufactured items to operation using the System Assignment Assistant</li> <li>- Analyze the workload and line balancing</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course. They should have also completed the DELMIA Manufacturing Item Definition Essentials course.
Available Online	Yes

DELMIA Manufacturing Work Instructions (WKD)	
Course Code	DEL-en-WKD-F-15-141
Available Release	3DEXPERIENCE R2014x
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"> <li>- Create textual and 3D work instructions for an operation</li> <li>- Modify, reorder and delete the work instructions</li> <li>- Enrich the work instructions with documents</li> <li>- Add the work instructions to a catalog and reuse them for other operations</li> <li>- Preview the authored instructions in a 3D environment</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course.
Available Online	Yes

# ENOVIA

## Application Lifecycle Services

## ENOVIA Collaboration and Approvals Essentials (BUPS)

Course Code	ENOV-en-BUPS-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	ENOVIA 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. Finally, 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"> <li>- Explain the features of the Collaboration and Approvals app</li> <li>- Illustrate the structure of ENOVIA Business Process Services</li> <li>- Create and manage your folders</li> <li>- Create workflows</li> <li>- Identify and manage your assigned tasks</li> <li>- Subscribe to various objects and events</li> <li>- Report and resolve issues in objects</li> <li>- Create, track and organize your documents</li> </ul>

## ENOVIA Collaboration and Approvals Essentials (BUPS)

Prerequisites

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

Available Online

Yes

ENOVIA Collaboration for Microsoft Essentials (COMI)	
Course Code	ENOV-en-COMI-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 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"> <li>- Access documents from the ENOVIA database using the Microsoft applications</li> <li>- Create, manage and synchronize the documents</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should have also completed the ENOVIA Collaboration and Approvals Essentials course.
Available Online	Yes

## ENOVIA Collaborative Lifecycle Management Essentials (LIIN)

Course Code	ENOV-en-LIIN-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> <li>- CAD Designers</li> <li>- Engineers in charge of product development</li> </ul>
Description	<p>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.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create a new product structure</li> <li>- Manage the changes in a product structure</li> <li>- Collaborate with Engineering BOM</li> <li>- Manage documents</li> </ul>
Prerequisites	<ul style="list-style-type: none"> <li>- Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.</li> <li>- Additionally, they should be familiar with the CATIA Part Design and CATIA Assembly Design fundamentals</li> </ul>
Available Online	Yes

## ENOVIA X-CAD Design Management Essentials (XCAD)

Course Code	ENOV-en-XCAD-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> <li>- Design Engineers, Drafting Engineers and Manufacturing Engineers</li> <li>- Business Administrators and System Administrators</li> </ul>
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, and create and synchronize the Engineering BOMs.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Initialize and work in the Embedded Integration mode</li> <li>- Store and retrieve the CATIA V5 files in ENOVIA</li> <li>- Create new components, drawings and Bill of Materials (BOM)</li> <li>- Review and release the CAD models</li> <li>- Modify the existing designs and create new revisions</li> </ul>
Prerequisites	<ul style="list-style-type: none"> <li>- Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform, ENOVIA Collaboration and Approvals Essentials courses.</li> </ul>

## ENOVIA X-CAD Design Management Essentials (XCAD)

- Students attending this course should be familiar with CATIA V5 fundamentals.

Available Online

Yes

# ENOVIA

## Global Product Development

ENOVIA Design Review Essentials (REEV)	
Course Code	ENOV-en-REEV-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 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"> <li>- Create a design review and add markups to it</li> <li>- Create slides and add markers</li> <li>- Create sections and measures</li> <li>- Export the sections and measures</li> </ul>
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-15-141
Available Release	3DEXPERIENCE R2014x
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 create part revisions and generate various types of reports.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create new parts and specifications</li> <li>- Create and edit Bill of Materials</li> <li>- Create a Change Request to make the changes in a part or a specification</li> <li>- Create a Change Order for a new product</li> <li>- Review and release the new product</li> <li>- Modify the existing product and create a new revision</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

ENOVIA On-The-Go Essentials (ONGO)	
Course Code	ENOV-en-ONGO-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	1 hour
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"> <li>- Work in the offline mode</li> <li>- Return to the online Mode</li> <li>- Restore the last session</li> </ul>
Prerequisites	Students attending this course should be familiar with the 3DEXPERIENCE platform.
Available Online	Yes

### ENOVIA Variant Management Essentials (VAMA)

Course Code	ENOV-en-VAMA-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Product Managers, System Engineers, Design Engineers, Issue Managers and Marketing Managers
Description	This course will teach you how to use the Variant Management app for creating and managing product configurations. You will learn how to create product portfolios and manage the product variability using various configuration features and rules. You will also learn how to generate a Bill of Materials and associate its parts with the features of a product.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Define product portfolios based on product roadmaps</li> <li>- Create and manage product configurations and design variants</li> <li>- Use Engineering Changes (ECs) to track and resolve issues</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course. Additionally, they should have also completed the ENOVIA Collaboration and Approvals Essentials course.
Available Online	Yes

# ENOVIA

## Installation and Administration

## Data Model Development: Studio Business Modeler (TMO3)

Course Code	ENOV-en-TMO3-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Describe the basics of a 3DEXPERIENCE Platform schema</li> <li>- Understand the AEF Schema to customize the data model</li> <li>- Design and implement a 3DEXPERIENCE Platform schema using the Business Modeler</li> </ul>
Prerequisites	Students attending this course should have completed the 3DEXPERIENCE Open Studio Matrix Navigator and the 3DEXPERIENCE Open Studio System Administration courses.
Available Online	Yes

## Data Model Development: Studio Matrix Navigator (TMO1)

Course Code	ENOV-en-TMO1-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	This course is intended to teach administrators how to work with 3DEXPERIENCE Studio applications, how to define the new business model or modify existing schema. The main goal is to learn how to use existing capabilities of the 3DEXPERIENCE platform to perform business and system administrator tasks.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Describe the 3DEXPERIENCE Platform Architecture and its components</li> <li>- Explain the 3DEXPERIENCE Platform Schema and its Data Model</li> <li>- Use the 3DEXPERIENCE Studio Matrix Navigator to create and edit Business Objects</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

Data Model Development: Studio MQL (TMO4)	
Course Code	ENOV-en-TMO4-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform Business Administrators, System Administrators and Implementers
Description	
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Understand basic MQL commands</li> <li>- Modify the schema</li> <li>- Create, modify, delete and query business objects</li> <li>- Export and import data</li> <li>- Create MQL scripts</li> </ul>
Prerequisites	Students attending this course should have completed the 3DEXPERIENCE Open Studio Matrix Navigator and the 3DEXPERIENCE Open Studio Business Modeler courses.
Available Online	Yes

Data Model Development: Studio System (TMO2)	
Course Code	ENOV-en-TMO2-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Understand the purpose of 3DEXPERIENCE Open Studio System Administration</li> <li>- Describe the configuration objects of the Studio System</li> <li>- Setup stores and vaults in the Studio System</li> </ul>
Prerequisites	Students attending this course should have completed the 3DEXPERIENCE Open Studio Matrix Navigator course.
Available Online	Yes

# ENOVIA

## IP Classification and Protection

ENOVIA Part and IP Classification Essentials (PACL)	
Course Code	ENOV-en-PACL-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Product Engineers, Designers, Manufacturing Professionals, Technical Writers, Business Administrators and System Administrators
Description	This course will teach you how to use the ENOVIA Part and IP Classification app to create document libraries, part libraries and general libraries, and how to manage parts and documents using these libraries. You will learn how to store, manage and access documents and other files within the application in a collaborative work environment.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create and work with different types of libraries and their related hierarchy</li> <li>- Manage the documents and part objects of the libraries</li> <li>- Classify the library objects based on their features</li> <li>- Use the Classification functionality to manage Attribute Groups</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

Experience ENOVIA Classify and Reuse (CLRE)	
Course Code	ENOV-en-CLRE-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Design Engineers, Manufacturing Engineers, Project Managers and Technical Writers
Description	This course will teach you how to use the ENOVIA Classify and Reuse App to search and view different types of libraries and the objects hierarchy. You will also learn how to manage the objects using these libraries.
Objectives	Upon completion of this course you will be able to: <ul style="list-style-type: none"> <li>- Search and view different types of Libraries and their related hierarchy</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should have completed the ENOVIA Collaboration and Approvals Essentials course.
Available Online	Yes

ENOVIA

Product Planning and Program  
Management

### ENOVIA Program and Project Management Advanced (PRPR)

Course Code	ENOV-en-PRPR-A-15-141
Available Release	3DEXPERIENCE R2014x
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 Program Central. 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"> <li>- Document the various risk areas of a project and track them</li> <li>- Create and manage the resource requirements for a project</li> <li>- Create budgets and benefits to monitor the financials of a project</li> <li>- Track the time spent on a project using time sheets</li> <li>- Identify the quality factors of a project and monitor them</li> <li>- Create an assessment to measure the project's health</li> <li>- Use dashboards to monitor the status of your projects</li> </ul>
Prerequisites	<ul style="list-style-type: none"> <li>- Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.</li> </ul>

## ENOVIA Program and Project Management Advanced (PRPR)

- Additionally, they should have also completed the ENOVIA Program and Project Management Fundamentals course.

Available Online

Yes

### ENOVIA Program and Project Management Fundamentals (PRPR)

Course Code	ENOV-en-PRPR-F-15-141
Available Release	3DEXPERIENCE R2014x
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"> <li>- Create programs and projects</li> <li>- Assign members to a project</li> <li>- Add tasks and assign project members to the tasks</li> <li>- Create folders for managing the project documents</li> <li>- Create process flow for the tasks</li> <li>- Review the status of programs and projects</li> <li>- Exchange and view projects' data using Microsoft Project Integration</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

Experience ENOVIA Project Sharing (PREX)	
Course Code	ENOV-en-PREX-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Project Members
Description	This course will teach how to use the Project Sharing 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"> <li>- Create projects</li> <li>- Create and edit the project schedule</li> <li>- Create and assign accesses to folders</li> <li>- Record risks for projects and tasks</li> <li>- Create and submit timesheets</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should have also completed the ENOVIA Collaboration and Approvals Essentials course.
Available Online	Yes

# ENOVIA

## Quality and Compliance Management

## ENOVIA Materials Compliance Management Essentials (MACO)

Course Code	ENOV-en-MACO-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Compliance Engineers, Senior Compliance Engineers and Supplier Representatives
Description	In this course, you will learn how to create and manage materials, substances and material declarations that are required to design the assembly components. You will also learn how to collect the regulatory requirements, integrate them through a supplier chain, analyze the compliance reports and publish them to customers.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create environmental compliances</li> <li>- Perform compliance analyses</li> <li>- Collaborate with suppliers</li> <li>- Create material declarations</li> <li>- Generate compliance reports</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

# ENOVIA

## Strategic Customer Relationship Management

### ENOVIA Traceable Requirements Management Essentials (RERE)

Course Code	ENOV-en-RERE-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	System Engineers, People defining Product Requirements, Product Managers and Product Developers
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"> <li>- Capture Requirements from MS Word and MS Excel Documents</li> <li>- Create Requirements and Requirement Specifications</li> <li>- Allocate Requirements to Products and Models</li> <li>- Create Test Cases and Use Cases</li> <li>- Create Revision and multiple Versions of Requirements</li> <li>- Generate Traceability Reports</li> </ul>
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.

## ENOVIA Traceable Requirements Management Essentials (RERE)

Additionally, they should have also completed the ENOVIA Collaboration and Approvals Essentials course.

Available Online

Yes

# EXALEAD OnePart

EXALEAD OnePart Essentials (S1P)	
Course Code	EXA-en-S1P-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Any pre or post-sales consultant, or solution administrator who wants to install and configure EXALEAD OnePart
Description	
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Install EXALEAD OnePart R2014x on your environment</li> <li>- Set up OnePart R2014x: how to import the demo data, how to import your own data</li> <li>- Understand the CloudView indexing life cycle</li> <li>- Understand the CloudView Security model</li> </ul>
Prerequisites	<ul style="list-style-type: none"> <li>- Students attending this course should be familiar with CATIA V5 or SolidWorks basics such as:</li> <li>- Part Design</li> <li>- Assembly Design</li> <li>- Drafting</li> </ul>
Available Online	Yes

# SIMULIA

## Design Simulation

Product Design Simulation Essentials (PDS)	
Course Code	SIM-en-PDS-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Designers, Analysts
Description	This course is an introduction to performing simulation to spur product and concept innovation in the 3DEXPERIENCE Platform. The 3DEXPERIENCE Platform enables designers to perform realistic simulation of parts/assemblies under structural loading conditions early in the design cycle.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Search for simulation data in the database</li> <li>- Open the simulation for modification</li> <li>- Perform a structural/frequency simulation using the Structural Validation app</li> <li>- Perform a thermal simulation the Structural Validation app</li> <li>- Review simulations stored in a database and generate reports</li> </ul>
Prerequisites	None
Available Online	Yes

# SIMULIA

## Multiphysics Simulation

Fluid Mechanics Simulation Essentials (FLO)	
Course Code	SIM-en-FLO-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Simulation Analysts
Description	This course is a comprehensive introduction to the flow simulation capabilities in the 3DEXPERIENCE Platform. It teaches you how to solve computational fluid dynamics (CFD), fluid-structure interaction (FSI), conjugate heat transfer (CHT) problems and view simulation results.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Set up and create CFD, CHT and FSI models in the 3DEXPERIENCE Platform</li> <li>- Perform CFD analyses</li> <li>- Perform FSI analyses</li> <li>- Perform CHT analyses</li> <li>- Postprocess CFD, FSI and CHT results</li> </ul>
Prerequisites	None
Available Online	Yes

Structural Mechanics Simulation Essentials (SME)	
Course Code	SIM-en-SME-F-15-141
Available Release	3DEXPERIENCE R2014x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Simulation Analysts
Description	This course is a comprehensive introduction to the physics modeling capabilities in the 3DEXPERIENCE Platform. It teaches you how to solve linear and nonlinear problems and view simulation results.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> <li>- Create complete Finite Element models</li> <li>- Run and monitor the simulations</li> <li>- View and evaluate simulation results</li> <li>- Perform structural simulations (such as effects of material nonlinearity, large deformation, and contact)</li> </ul>
Prerequisites	None
Available Online	Yes