

Course Catalog

video catalogue 16x

21 February 2017



3DEXPERIENCE®

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CATIA

3D Modeling	1
CATIA Assembly Design Expert (ASD)	2
CATIA Assembly Design Fundamentals (ASD)	3
CATIA Generative Shape Design Essentials (GSD)	4
CATIA Generative Wireframe and Surface Essentials (GS1)	5
CATIA Mechanical Design Expert (3DE)	6
CATIA Mechanical Design Fundamentals (3DF)	8
CATIA Natural Shape Essentials (LSP)	10
CATIA Part Design Expert (PDG)	11
CATIA Part Design Fundamentals (PDG)	12
CATIA R2016x Update for Mechanical Designers (UMD16)	13
CATIA R2016x Update for Shape Designers (UHD16)	14
CATIA Shape Healing Essentials (HA1)	15
Transition to the 3DEXPERIENCE Platform for Mechanical Designers (3DMT)	16
Transition to the 3DEXPERIENCE Platform for Surface Designers (3DST)	18
3DSOpen Apps	19
CATIA Engineering Rules Capture Essentials (KWA)	20
CATIA Engineering Templates Capture Essentials (PKT)	21
CATIA Know-how Reuse Essentials (KE1)	22
Introduction to Enterprise Knowledge Language (EKL)	23
Composer	24
CATIA Composer Essentials (CPS)	25
Electrical and Electronic Systems	26
CATIA Electrical 3D Design Essentials (EHI)	27
CATIA Electrical Systems Design Essentials (ESD)	29
Fluidic Systems	31
CATIA Piping and Tubing 3D Design Essentials (PIP)	32
CATIA Piping and Tubing Setup Essentials (PTS)	33
Mechanical Systems	34
CATIA 2D Layout for 3D Design Essentials (LO1)	35
CATIA 3D Annotation Insight Essentials (LFT)	36
CATIA 3D Tolerancing and Annotation Essentials (FTA)	37

3DS Learning Solutions | Course Catalog

CATIA Drafting Essentials (GDR)	38
CATIA Mechanical Systems Design Essentials (KIM)	39
CATIA Mechanical Systems Experience (KIN)	40
CATIA Natural Assembly Essentials (LCP)	41
Multi-Discipline Engineering	42
CATIA Bent Part Design Essentials (SMB)	43
CATIA Composites Braiding Essentials (CPB)	44
CATIA Composites Design Essentials (CPE)	45
CATIA Composites Manufacturing Preparation Essentials (CPM)	47
CATIA Functional Plastic Parts Essentials (FMP)	49
CATIA Sheet Metal Design Essentials (SMD)	50
CATIA Structure Design Essentials (SDD)	51
CATIA Structure Functional Design Essentials (SFD)	52
CATIA Virtual to Real Shape Morphing Essentials (RSO)	53
CATIA Weld Design Essentials (WDG)	54
Marine and Offshore Methodology Guide: Logical to Physical Design (BPLPD)	55
Marine and Offshore Methodology Guide: Piping Diagrams Setup (BPPDS)	56
Marine and Offshore Methodology Guide: Raceway Setup (BPRS)	57
Marine and Offshore Methodology Guide: Ship Reference System (BPSRS)	58
Marine and Offshore Methodology Guide: Ship Space Definition (BPSSD)	59
Styling	60
CATIA Digitized Shape Preparation Essentials (DSE)	61
CATIA FreeStyle Shape Design Essentials (FSS)	62
CATIA Functional Generative Design Essentials (GDE)	63
CATIA Generative Shape Develop Essentials (DL1)	64
CATIA ICEM Shape Design Essentials (ICM)	65
CATIA ICEM Shape Morphing Essentials (IEX)	66
CATIA Imagine and Shape Essentials (IMA)	67
CATIA Mechanical Surface Refinement Essentials (SRF)	68
CATIA Natural Sketch Essentials (NTS)	69
Systems Architecture	70
CATIA Embedded Electronics Architecture Essentials (EEA)	71
CATIA Functional and Logical Design Advanced: System Architecture Design (FLE)	72
CATIA Functional and Logical Design Fundamentals (FLE)	73
CATIA Systems Report Generation Essentials (RGN)	74

3DS Learning Solutions | Course Catalog

Systems Modeling and Execution	75
CATIA Dymola Behavior Modeling Essentials (DBD)	76

Cross-Brand

3DEXPERIENCE Platform	77
Gateway to the 3DEXPERIENCE platform	78

DELMIA

Industrial Engineering	79
DELMIA Equipment Design Essentials (DBG)	80
DELMIA Machining Validation Essentials (MSG)	81
DELMIA Milling Machining Essentials (SMG)	82
DELMIA Mill-Turn Machining Essentials (LMG)	84
DELMIA Multi-Axis Machining Essentials (MMG)	86
DELMIA Plant Layout Design Essentials (MRL)	87
DELMIA Prismatic and Turning Machining Essentials (LMG1)	88
DELMIA Prismatic Machining Advanced (PMG)	90
DELMIA Prismatic Machining Fundamentals (PMG)	92
DELMIA Robot Arc Welding Simulation Essentials (AWG1)	93
DELMIA Robot Arc Weld Programming Essentials (AWG2)	94
DELMIA Robot Programming Essentials (OLP)	95
DELMIA Robot Simulation Essentials (WSU)	96
DELMIA Robot Spot Welding Simulation Essentials (SWG1)	97
DELMIA Robot Spot Weld Programming Essentials (SWG2)	98
DELMIA V5 to 3DEXPERIENCE Machining Transition (PMGT)	99
What's New for DELMIA NC Prismatic Programmers (WNPM)	101
Manufacturing Engineering	103
DELMIA Manufactured Item Definition Essentials (PRD)	104
DELMIA Manufacturing Assembly Evaluation Essentials (FIT)	105
DELMIA Manufacturing Equipment Allocation Essentials (MLB)	107
DELMIA Manufacturing Process Planning Essentials (MSD)	109
DELMIA Manufacturing Work Instructions Essentials (WKD)	110
DELMIA Planning Structure Essentials (PRR)	111
DELMIA Time-Motion Study Essentials (STM)	112
What's New for DELMIA Process Planner (WPPL)	113

ENOVIA

Application Lifecycle Services	114
ENOVIA Collaboration and Approvals Essentials (BUPS)	115
ENOVIA Collaboration for Microsoft Essentials (COMI)	117
ENOVIA Collaborative Lifecycle Management Essentials (LIIN)	118
ENOVIA Exchanges Management Essentials (EXCH)	119
ENOVIA X-CAD Design Management Essentials (XCAD)	120
ENOVIA X-CAD Design Management for SolidWorks Essentials (XCADS)	122
Global Product Development	124
ENOVIA Defect Management and Collaboration Essentials (SECO)	125
ENOVIA Design Review Essentials (REEV)	126
ENOVIA Engineering BOM Management Essentials (ENBO)	127
ENOVIA On-The-Go Essentials (ONGO)	128
ENOVIA Synchronicity DesignSync Data Manager Essentials (SYMA)	129
ENOVIA Variant Management Essentials : Product Architect (VAMAPDA)	131
ENOVIA Variant Management Essentials : Product Manager (VAMAPDM)	132
Overview of ENOVIA Variant & Configuration Management (VAMACFG)	133
Installation and Administration	135
3DEXPERIENCE Open Cloud Essentials (PCS)	136
3DEXPERIENCE Platform Architecture Essentials (3DXA)	137
3DEXPERIENCE Platform Services (TMO5)	138
Data Model Development: Studio Business Modeler (TMO3)	139
Data Model Development: Studio Matrix Navigator (TMO1)	140
Data Model Development: Studio MQL (TMO4)	141
One Click Deployment Essentials (OCD)	142
IP Classification and Protection	143
ENOVIA Classify and Reuse Essentials (CLRE)	144
ENOVIA IP Classification Essentials (PACL)	145
ENOVIA IP Protection Classification Essentials (IPCL)	146
Product Planning and Program Management	147
ENOVIA Project Execution Essentials (PREX)	148
ENOVIA Project Management Advanced (PRPR)	149
ENOVIA Project Management Fundamentals (PRPR)	151
What's New for Project Managers (WDPM)	152

3DS Learning Solutions | Course Catalog

Quality and Compliance Management	153
ENOVIA Materials Compliance Management Essentials (MACO)	154
ENOVIA Materials Compliance Reporting Essentials (MADA)	155
Strategic Customer Relationship Management	156
ENOVIA Traceable Requirements Management Essentials (RERE)	157

EXALEAD

OnePart	159
Overview of EXALEAD OnePart (OS1P)	160

SIMULIA

Multiphysics Simulation	161
SIMULIA 3DPlay Simulation Experience Essentials (3DP)	162
SIMULIA Composites Simulation Engineer Essentials (SCI)	163
SIMULIA Durability Validation Essentials (DURV)	164
SIMULIA Fluid Mechanics Analyst Essentials (FLA)	165
SIMULIA Fluid Mechanics Validation Essentials (FLOV)	166
SIMULIA Linear Dynamics Scenario Creation Essentials (DYNS)	167
SIMULIA Mechanical Scenario Creation Essentials (MECS)	168
SIMULIA Model Assembly Design Essentials (MSAM)	169
SIMULIA Performance Study Essentials (DISB)	170
SIMULIA Physics Results Explorer Essentials (PHYR)	172
SIMULIA Process Composer Essentials (PRCW)	173
SIMULIA Process Experience Studio Essentials (EXPS)	174
SIMULIA Results Analytics Essentials (REII)	175
SIMULIA Simulation Companion Essentials (COMP)	176
SIMULIA Simulation Model Design Essentials (SML)	177
SIMULIA Structural Model Creation : Geometry and Meshing (MECM2)	178
SIMULIA Structural Model Creation Essentials (MECM)	179
SIMULIA Structural Scenario Creation Essentials (EMCS)	180
SIMULIA Structural Validation Essentials (STRV)	181

CATIA

3D Modeling

CATIA Assembly Design Expert (ASD)	
Course Code	CAT-en-ASD-A-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , French , German , Japanese
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 Generative Shape Design Essentials (GSD)	
Course Code	CAT-en-GSD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 hours
Course Materials	English , Japanese
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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 bills 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	32 hours
Course Materials	Chinese , English , French , German , Japanese , Korean
Level	Fundamental
Audience	Mechanical and Sheet Metal Designers
Description	This course will teach you how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will also learn how to create and analyze assemblies and how to produce a drawing with different views. Finally, you will learn how to dimension the drawing and annotate the views.
Objectives	<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-15-161
Available Release	3DEXPERIENCE R2016x
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 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Advanced
Audience	Mechanical and Sheet Metal Designers
Description	This course will introduce you to complex 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 complex parts - 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Materials	Chinese , English , French , German , Japanese , Korean
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 model - Reuse existing features
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA R2016x Update for Mechanical Designers (UMD16)

Course Code	CAT-en-UMD16-U-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , French , German , Japanese
Level	Update
Audience	Mechanical Designers
Description	This course will teach you how to use the enhanced functionalities in 3DEXPERIENCE R2016x.
Objectives	<p>Upon completion of this course you will be able to take advantage of the new and enhanced tools in 3DEXPERIENCE R2016x for the following apps:</p> <ul style="list-style-type: none"> - Sketcher - Part Design - Assembly Design - Drafting - Generative Wireframe & Surface
Prerequisites	Student attending this course should be familiar with the 3DEXPERIENCE R2015x Mechanical Design apps.
Available Online	Yes

CATIA R2016x Update for Shape Designers (UHD16)	
Course Code	CAT-en-UHD16-U-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Materials	English , French , German , Japanese
Level	Update
Audience	Surface Designers
Description	This course will teach you how to use the enhanced functionalities in CATIA R2016x. You will learn different ways to create axis systems. You will also learn enhanced methods to extrapolate curves and surfaces.
Objectives	<p>Upon completion of this course you will be able to take advantage of the new and enhanced tools in 3DEXPERIENCE R2016x in the Generative Shape Design app for the following domains:</p> <ul style="list-style-type: none"> - Reference Geometry Creation - Curve Creation - Surface Creation
Prerequisites	Students attending this course should be familiar with the R2015x CATIA Generative Shape Design app.
Available Online	Yes

CATIA Shape Healing Essentials (HA1)	
Course Code	CAT-en-HA1-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Tooling Designers, Mechanical Designers, Surface Designers.
Description	This course introduces you to CATIA Shape Healing's user interface and its basic tools. You will learn how to analyze and repair the imported data (IGES 3D or CATIA V4 files). You will also learn how to compare two versions of a Part, and how to customize the workbench to suit your needs.
Objectives	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> - Analyze the imported data - Repair the imported data - Compare two versions of a Part - Customize the app
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with CATIA Surface Design.
Available Online	Yes

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

Course Code	CAT-en-3DMT-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Materials	English , French , German , Japanese
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , French , German , Japanese
Level	Fundamental
Audience	Designers who need to work with styled parts
Description	This course addresses the needs of Surface Designers. It will first teach you how to design a new part with the 3DEXPERIENCE platform. You will also learn how to create a new part version, replace the original part and update the product.
Objectives	<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

CATIA

3DSOpen Apps

CATIA Engineering Rules Capture Essentials (KWA)

Course Code	CAT-en-KWA-F-15-161
Available Release	3DEXPERIENCE R2016x
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"> - Customize the tree to display knowledgware 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-15-161
Available Release	3DEXPERIENCE R2016x
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 Know-how Reuse Essentials (KE1)	
Course Code	CAT-en-KE1-F-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers, Electrical Engineers and Piping Engineers
Description	This course will introduce you to Enterprise Knowledge Language, used in different knowledgware apps, 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"> - 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 CATIA Mechanical Design fundamentals.
Available Online	Yes

CATIA

Composer

CATIA Composer Essentials (CPS)	
Course Code	CAT-en-CPS-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	Technical Illustrators, Technical Support / Sales Engineers, Sales Demonstrators
Description	This course will teach you how to work with a 3D model using CATIA Composer to capture its views, add annotations and change its rendering style. You will learn how to create technical illustrations, high resolution images and animations. You will also learn how to publish and share the content.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Open and navigate a model using CATIA Composer - Capture views of the model - Enhance the model by adding annotations and changing its rendering - Create technical illustrations - Create high resolution images - Create animations - Publish and share the CATIA Composer content
Prerequisites	Students attending this course should be familiar with the Windows Operating System.
Available Online	Yes

CATIA

Electrical and Electronic Systems

CATIA Electrical 3D Design Essentials (EHI)

Course Code	CAT-en-EHI-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Electrical Engineers new to Electrical Physical System Design using the 3DEXPERIENCE Platform.
Description	This course will teach you to create electrical physical system in the 3DEXPERIENCE Platform and thereby help you in designing the electrical physical systems. You will work with the catalogs to place the components from the electrical libraries. You will learn the routing of branches for creating electrical branch geometries, managing the electrical geometry content, and routing conductors through the electrical geometry. You will also learn the 3D Master Approach of annotating the electrical physical system.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create and use an Electrical Library using Data Setup - Create an Electrical Geometry - Route Conductors through the Electrical Geometry - Annotate the Electrical Physical System using the 3D Master Approach
Prerequisites	<ul style="list-style-type: none"> - Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. - They should also be familiar with Part Design and should know how to use an electrical catalog.

CATIA Electrical 3D Design Essentials (EHI)

Available Online

Yes

CATIA Electrical Systems Design Essentials (ESD)

Course Code	CAT-en-ESD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Marine & Offshore Electrical Designers, Electrical Engineers and Electrical Schematics Designers new to Electrical System Design using the 3DEXPERIENCE Platform.
Description	This course will teach you to create and manage various elements of an electrical system diagram in the 3DEXPERIENCE platform. This will help you in designing the electrical systems. You will work with catalogs to place the electrical 2D components symbols and route the cables from the electrical cable libraries. It will also teach you how to check and analyze the electrical system connectivity and generate reports.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Place electrical component symbols - Route cables - Update component properties - Adjust network layout - Annotate cables - Perform electrical systems design connectivity checks - Generate reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with CATIA Functional and Logical Design Fundamentals.

CATIA Electrical Systems Design Essentials (ESD)

Available Online

Yes

CATIA

Fluidic Systems

CATIA Piping and Tubing 3D Design Essentials (PIP)

Course Code	CAT-en-PIP-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Piping or Tubing Designers
Description	This course will teach you how to route a pipe or a tube, and place the piping components. You will learn how to detail the design and modify the network. You will also learn how to validate the design and prepare it for manufacturing. The course also features exercises that enable you to practice creating a piping system design.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Route straight pipes or tubes - Position piping or tubing parts - Adjust the design of a piping or a tubing network - Validate the piping and tubing design - Prepare the piping and tubing design for manufacturing
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Piping and Tubing Setup Essentials (PTS)

Course Code	CAT-en-PTS-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Fluid Systems Solution Administrators
Description	This course will teach you how to set up fluid systems resources and create piping components. You will learn how to manage component catalogs, design validation rules, and global naming conventions. You will also learn how to customize the generative view style file for drawings and standards for P&ID.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create and manage resources for fluid systems design - Build equipment, supports, and components - Reuse the piping standard data for design setup - Create and manage component catalogs - Define the global naming conventions - Create the checks and rules for design validation - Create templates for generating reports - Customize the drafting standards and settings - Define symbols and annotations for piping and instrumentation diagrams
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA

Mechanical Systems

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

Course Code	CAT-en-LO1-F-15-161
Available Release	3DEXPERIENCE R2016x
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 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-15-161
Available Release	3DEXPERIENCE R2016x
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"> - Access and visualize View, Capture and Annotation review features - Show / Hide individual 3D annotations and all annotations of a given type - Display FTA captures - Remove the FTA Clipping Plane of a capture - Filter the 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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 hours
Course Materials	English , French , German , Japanese
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 titleblocks - 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 in CATIA.
Available Online	Yes

CATIA Mechanical Systems Design Essentials (KIM)	
Course Code	CAT-en-KIM-F-15-161
Available Release	3DEXPERIENCE R2016x
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 new mechanism architecture - Include alternative representations to complete the mechanism - Create a new macro mechanism from an existing sub-mechanism - 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 in CATIA.
Available Online	Yes

CATIA Mechanical Systems Experience (KIN)	
Course Code	CAT-en-KIN-F-15-161
Available Release	3DEXPERIENCE R2016x
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 the 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-15-161
Available Release	3DEXPERIENCE R2016x
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"> - 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 Bent Part Design Essentials (SMB)

Course Code	CAT-en-SMB-F-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Composites manufacturing designers
Description	This course will teach you how to create a manufacturing document from a composites engineering design document. You will 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.
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	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with CATIA Drafting.

CATIA Composites Manufacturing Preparation Essentials (CPM)

Available Online

Yes

CATIA Functional Plastic Parts Essentials (FMP)	
Course Code	CAT-en-FMP-F-15-161
Available Release	3DEXPERIENCE R2016x
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 and should be familiar with the Part Design app.
Available Online	Yes

CATIA Sheet Metal Design Essentials (SMD)

Course Code	CAT-en-SMD-F-15-161
Available Release	3DEXPERIENCE R2016x
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 - Create stamped features - Use pre-defined sheet metal parameters - Manage folded and unfolded views - 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 CATIA Part Design.
Available Online	Yes

CATIA Structure Design Essentials (SDD)	
Course Code	CAT-en-SDD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Structural Designers, Naval Architects
Description	This course will teach you how to define planning breaks and synchronize basic design with detail design. You will learn how to create the detail design of a ship, including features like stiffeners, collars and brackets. 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 - Define planning breaks and compute weight - Modify basic design and synchronize with detail design - Add and break stiffeners - Add end cuts, slots and welds - Place collars and brackets - Modify the setup by updating the resources
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Structure Functional Design.
Available Online	Yes

CATIA Structure Functional Design Essentials (SFD)

Course Code	CAT-en-SFD-F-15-161
Available Release	3DEXPERIENCE R2016x
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 hull shell, deck and the bulkhead panels - Place stiffeners on the panels - Create openings and slots - Generate a material report - Generate a finite element model - Generate a panel drawing - Modify the setup by updating the resources
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Virtual to Real Shape Morphing Essentials (RSO)

Course Code	CAT-en-RSO-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Reverse Shape Optimizer
Description	This course will teach you how to perform digitized morphing on surfaces using Realistic Shape Optimizer tools considering the analysis results. You will also learn how to update the Digitized Morphing features as per the changes in the displacement file.
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	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should be familiar with the fundamentals of CATIA surface design.
Available Online	Yes

CATIA Weld Design Essentials (WDG)	
Course Code	CAT-en-WDG-F-15-161
Available Release	3DEXPERIENCE R2016x
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"> - 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 CATIA Assembly Design.
Available Online	Yes

Marine and Offshore Methodology Guide: Logical to Physical Design (BPLPD)

Course Code	CAT-en-BPLPD-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Advanced
Audience	Users, master users and administrators who set up and execute the Logical to Physical design in the Piping domain.
Description	This Methodology Guide explains the methodologies within the 3DEXPERIENCE® platform for creating a 3D Design based on its Logical definition, in particular Piping design based on Piping diagrams is described.
Objectives	Upon completion of this course you will be able to: <ul style="list-style-type: none"> - Users, master users and administrators who set up and execute the Logical to Physical design in the Piping domain.
Prerequisites	The readers should be familiar with the basic concepts of 3DEXPERIENCE® and Piping Design concepts. They should have a basic understanding of RFLP.
Available Online	Yes

Marine and Offshore Methodology Guide: Piping Diagrams Setup (BPPDS)

Course Code	CAT-en-BPPDS-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Advanced
Audience	Master users and administrators who set up an environment to create Piping Diagrams.
Description	This Setup Methodology Guide explains the methodologies within the 3DEXPERIENCE® platform for defining the environment to create Logical Design and Piping Diagrams (P&IDs).
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - By reading this document you will acquire knowledge on the following topics pertaining to defining an environment to create Piping diagrams (P&IDs): - Define Data Setup using Engineering Specifications and Technology Tables - Create diagram components and their symbols - Define a frame and a title block for diagrams - Create on-/off-sheet symbols - Create text templates and labels - Use business logic for naming
Prerequisites	The reader should be familiar with the basic concepts of 3DEXPERIENCE® including RFLP.
Available Online	Yes

Marine and Offshore Methodology Guide: Raceway Setup (BPRS)

Course Code	CAT-en-BPRS-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Advanced
Audience	Master users and administrators who perform the setup for Raceway Design.
Description	This Setup Methodology Guide explains the methodologies within the 3DEXPERIENCE® platform for defining the environment to create 3D Design of Raceways.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - By reading this document you will acquire knowledge on the following topics pertaining to defining an environment for designing raceways: - Define Data Setup using Engineering Specifications and Technology Tables - Create raceway trays and parts - Create raceway specifications and filters - Create cableways related to raceway design - Create tables for advanced functionalities - Create raceways manually and automatically
Prerequisites	The reader should be familiar with the basic concepts of 3DEXPERIENCE®.
Available Online	Yes

Marine and Offshore Methodology Guide: Ship Reference System (BPSRS)

Course Code	CAT-en-BPSRS-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Advanced
Audience	Naval Architects or Project Leaders who need to create or modify the ship reference system for the project.
Description	This Methodology Guide explains the methodologies within the 3DEXPERIENCE® platform in the area of the Ship reference creation during initial design phase. It also explains the functionalities to create the main frame of a ship.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - By reading this document you will acquire knowledge on the following Initial Design topics: - Ship Reference System - Resources in Data Setup - Create and modify a Space Reference System - Visualize a 3D grid - Export and import reference planes
Prerequisites	The reader should be familiar with 3DEXPERIENCE® basic , Data Setup and concept functionalities. (Please rephrase for clarity).
Available Online	Yes

Marine and Offshore Methodology Guide: Ship Space Definition (BPSSD)

Course Code	CAT-en-BPSSD-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Advanced
Audience	Naval Architects or Project Leaders who need to create or modify the ship space layout for the project.
Description	This Methodology Guide explains the usage of 3DEXPERIENCE® functionality in the initial design phase of the Ship space creation. It explains which functionalities are to be used for each step of the design.
Objectives	By reading this document you will acquire knowledge about the following topics around Ship space creation in the initial design phase: <ul style="list-style-type: none"> - Define Data Setup resources - Create ship spaces - Define types for ship spaces - Extract drawings - Generate reports
Prerequisites	The reader should be familiar with the basic concepts of 3DEXPERIENCE®. He should know about Data Setup and basic surface functionalities as well as Space Reference System creation.
Available Online	Yes

CATIA

Styling

CATIA Digitized Shape Preparation Essentials (DSE)	
Course Code	CAT-en-DSE-F-15-161
Available Release	3DEXPERIENCE R2016x
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 FreeStyle Shape Design Essentials (FSS)

Course Code	CAT-en-FSS-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Industrial Designers and Creative Designers
Description	This course will teach you how to create flawless, styled shapes from scratch using 3D free-form curves and surfaces or using digitized data. You will also learn how to analyze and enhance the quality of existing curves and surfaces.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create styled shapes using digitized data - Create surfaces using the curve-based and the surface-based approaches - Analyze and enhance the quality of curves and surfaces
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Generative Surface Design in CATIA.
Available Online	Yes

CATIA Functional Generative Design Essentials (GDE)	
Course Code	CAT-en-GDE-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Designer or Structure Engineer
Description	
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-based - Manage Concept Variants and Perform Trade-off Study - Design and Validate Detailed Designs for ALM and Milling/Casting
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and must be familiar with basics of Mechanical Part Design and Structural Analysis.
Available Online	Yes

CATIA Generative Shape Develop Essentials (DL1)	
Course Code	CAT-en-DL1-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Surface Designers
Description	This course will teach you how to use CATIA Generative Shape Develop app functionalities to create unfolded surfaces from a ruled surface. You will learn how to develop wires and points onto a revolution surface.
Objectives	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> - Create unfolded surfaces from a ruled surface using the CATIA Generative Shape Develop app functionalities - Develop wires and points onto a revolution surface
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should also be familiar with Surface Design in CATIA.
Available Online	Yes

CATIA ICEM Shape Design Essentials (ICM)	
Course Code	CAT-en-ICM-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	40 hours
Course Material	English
Level	Fundamental
Audience	Class A Modeler
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-15-161
Available Release	3DEXPERIENCE R2016x
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 Imagine and Shape Essentials (IMA)	
Course Code	CAT-en-IMA-F-15-161
Available Release	3DEXPERIENCE R2016x
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"> - Create subdivision surfaces using tools specific to the Imagine and Shape app - Modify the style surfaces using Generative Shape Design tools - Create the required environment around a model - Apply materials to the created models
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of CATIA Mechanical and Shape.
Available Online	Yes

CATIA Mechanical Surface Refinement Essentials (SRF)

Course Code	CAT-en-SRF-F-15-161
Available Release	3DEXPERIENCE R2016x
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

CATIA Natural Sketch Essentials (NTS)	
Course Code	CAT-en-NTS-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Creative Designers
Description	This course contains both videos and exercises. After a short introduction to the app and the user interface, videos will be used to demonstrate the sketching techniques and the use of the sketch tools. You will use the exercises that follow the videos to practice what you have learnt and familiarize yourself with the available tools.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Sketch curves or primitives in 2D and 3D - Trace and refine vector or primitive curves - Sketch on a surface - Import and edit images - Transform curves and images
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should also be familiar with basic sketching techniques.
Available Online	Yes

CATIA

Systems Architecture

CATIA Embedded Electronics Architecture Essentials (EEA)

Course Code	CAT-en-EEA-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	12 hours
Course Material	English
Level	Fundamental
Audience	Embedded Electronics Architects
Description	This course will teach you to create functional, requirement and hardware architectures. You will learn to create a traceability and communication matrix between these architectures. You will also learn to create and manage projects.
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
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Functional and Logical Design Advanced: System Architecture Design (FLE)

Course Code	CAT-en-FLE-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Advanced
Audience	System Architecture Designer
Description	This course will teach you the basic concepts of the Modeling Methodology for Systems (MMS). You will learn about the 19 views of the methodology and the interactions between different layers. You will also simulate the system under development virtually using physical representations and dynamic behavior.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Learn the Modelling Methodology for Systems (MMS) - Analyze the system under development with different point of views - Implement the methodology using the 3DEXPERIENCE platform - Simulate the system virtually
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE platform course. Additionally, they should be familiar with the Functional and Logical Design and Dymola Behavior Modeling fundamentals.
Available Online	Yes

CATIA Functional and Logical Design Fundamentals (FLE)

Course Code	CAT-en-FLE-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	System Architecture Designers
Description	This course will teach you the basic concepts of systems engineering and the RFLP approach. You will learn how to create the Requirement, Functional and Logical architecture. You will learn to add 3D representation for system components. You will also learn how to create and edit the implement relations.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Explain systems engineering and the RFLP approach - Define and formalize data using the Functional & Logical Design app - Create the implement relations among the requirement, functional and logical objects - Insert the physical representation of the system - Use the search and navigation tools for the RFLP objects
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

CATIA Systems Report Generation Essentials (RGN)

Course Code	CAT-en-RGN-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Report Generation Administrator, System Architecture Designer, Disciplines 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	Upon completion of this course you will be able to: <ul style="list-style-type: none"> - Create and manage report templates - Generate reports based on the platform data
Prerequisites	<ul style="list-style-type: none"> - Students attending this course should have completed the Gateway to 3DEXPERIENCE Platform course. - Additionally, they should be familiar with Systems Engineering.
Available Online	Yes

CATIA

Systems Modeling and Execution

CATIA Dymola Behavior Modeling Essentials (DBD)

Course Code	CAT-en-DBD-F-15-161
Available Release	3DEXPERIENCE R2016x
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 and Logical Design Fundamentals.
Available Online	Yes

Cross-Brand

3DEXPERIENCE Platform

Gateway to the 3DEXPERIENCE platform	
Available Release	3DEXPERIENCE R2016x
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"> - 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
Available Online	Yes

DELMIA

Industrial Engineering

DELMIA Equipment Design Essentials (DBG)	
Course Code	DEL-en-DBG-F-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 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. 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, dedicated operations for machining parts that are designed with surface or solid geometry. You will also learn how to simulate the machines, detect clashes and analyze them. Further, you will teach you how to define the 3-Axis Roughing, Semi-finishing and Finishing operations. Finally, you will also learn how to improve productivity in mould and die machining using the various functionalities of 3-Axis Surface Machining</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 the simulation object - Generate the Numerical Control (NC) output Create Machining Features - Define 3-Axis Surface Machining operations - Define a Rework Area - Analyze and modify the Tool path

DELMIA Milling Machining Essentials (SMG)

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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Numerical Control (NC) Programmers
Description	This course will teach you how to use the common functionalities available in the machining apps of DELMIA. You will learn how to define and manage NC programs dedicated to machining parts that are designed with surface or solid geometry. This course also teaches you how to generate high quality NC programs for machining complex 3D parts and free-form shapes using advanced machining techniques. You will learn how to perform 2.5 to 5-Axis machining operations.
Objectives	<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	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.
Available Online	Yes

DELMIA Plant Layout Design Essentials (MRL)	
Course Code	DEL-en-MRL-F-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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 Advanced (PMG)	
Course Code	DEL-en-PMG-A-15-161
Available Release	3DEXPERIENCE R2016x
Duration	20 hours
Course Material	English
Level	Advanced
Audience	NC Programmers
Description	This course will teach you how to manage the NC resources and associate a user representation to a tool. It will also teach you to copy and transform the machining operations to machine similar profiles in a part. You will learn about the automation processes and how to optimize a program using the Auto Sequencing functionality. You will also learn how to save a video simulation result into a 3DPart.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create the tools catalog to manage tools and tool assemblies - Associate a user representation to a tool assembly - Create and instantiate a Machining Process catalog - Create a Machining Template for Resources and Programming - Optimize a program using the Auto Sequencing functionality - Copy and transform the machining operations to machine similar profiles in a part - Customize a PP Word Table - Save the video simulation result into a 3DPart
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the Prismatic machining in DELMIA.

DELMIA Prismatic Machining Advanced (PMG)

Available Online

Yes

DELMIA Prismatic Machining Fundamentals (PMG)

Course Code	DEL-en-PMG-F-15-161
Available Release	3DEXPERIENCE R2016x
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"> - Define the infrastructure required for machining - Create tools and tool assemblies - Define prismatic machining operations - Replay and simulate tool paths - Simulate a machine using a simulation object - Generate the Numerical Control (NC) output
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with the fundamentals of machining.
Available Online	Yes

DELMIA Robot Arc Welding Simulation Essentials (AWG1)

Course Code	DEL-en-AWG1-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , Japanese
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 programming
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 Arc Weld Programming Essentials (AWG2)

Course Code	DEL-en-AWG2-F-15-161
Available Release	3DEXPERIENCE R2016x
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 and seam search trajectories. You will also learn how to upload and download robot programs.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create an applicative profile - Define the parameters for an arc welding profile - Create the seam search trajectory - Create an arc welding task - Create the position programming - Upload and download robot programs
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should also be familiar with Robotic Simulation in DELMIA.
Available Online	Yes

DELMIA Robot Programming Essentials (OLP)	
Course Code	DEL-en-OLP-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	6 hours
Course Materials	English , Japanese
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 in DELMIA.
Available Online	Yes

DELMIA Robot Simulation Essentials (WSU)	
Course Code	DEL-en-WSU-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	12 hours
Course Materials	English , Japanese
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 Welding Simulation Essentials (SWG1)

Course Code	DEL-en-SWG1-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , Japanese
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 Robot Spot Weld Programming Essentials (SWG2)

Course Code	DEL-en-SWG2-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Spot Welding Engineers, Offline Programmers
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 and how to upload and download robot programs.
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 - Download and upload robot programs
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. They should also be familiar with Robotic Simulation and Programming.
Available Online	Yes

DELMIA V5 to 3DEXPERIENCE Machining Transition (PMGT)

Course Code	DEL-en-PMGT-F-15-161
Available Release	3DEXPERIENCE R2016x
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 DELMIA NC Prismatic Programmers (WNPM)

Course Code	DEL-en-WNPM-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	1 hours
Course Material	English
Level	Fundamental
Audience	NC Programmers
Description	This module will show you how to use the enhanced functionalities in R2016x DELMIA Prismatic Machining app. You will learn how to insert machines into multiple manufacturing cells. You will also see enhanced user interface to create tool assemblies and replay tool path.
Objectives	<p>“What's New for NC Prismatic Programmer” introduces new and enhanced functionalities applicable in this role in 3DEXPERIENCE R2016x. Using these functionalities, you will be able to insert an NC machine into multiple manufacturing cells, create precedence constrain to manage the order of machining operations and use a new method to apply cutting conditions. You will also be able to use the new user interface to create tool assemblies and simulate the tool path.</p> <ul style="list-style-type: none"> - This module will show you how to use the enhanced functionalities in R2016x DELMIA Prismatic Machining app. You will learn how to insert machines into multiple manufacturing cells. You will also see enhanced user interface to create tool assemblies and replay tool path.

What's New for DELMIA NC Prismatic Programmers (WNPM)

Prerequisites

Students attending this course should be familiar with DELMIA Prismatic Machining in the 3DEXPERIENCE platform.

Available Online

Yes

DELMIA

Manufacturing Engineering

DELMIA Manufactured Item Definition Essentials (PRD)

Course Code	DEL-en-PRD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	6 hours
Course Materials	English , Japanese
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	6 hours
Course Materials	English , Japanese
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-15-161
Available Release	3DEXPERIENCE R2016x
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 - Assign resources to operations Define the working position - Validate the resource plant - 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.

DELMIA Manufacturing Equipment Allocation Essentials (MLB)

Additionally, they should be familiar with defining process planning in DELMIA.

Available Online

Yes

DELMIA Manufacturing Process Planning Essentials (MSD)

Course Code	DEL-en-MSD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , Japanese
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 Manufacturing Work Instructions Essentials (WKD)

Course Code	DEL-en-WKD-F-15-161
Available Release	3DEXPERIENCE R2016x
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

DELMIA Planning Structure Essentials (PRR)	
Course Code	DEL-en-PRR-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	12 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 Time-Motion Study Essentials (STM)	
Course Code	DEL-en-STM-F-15-161
Available Release	3DEXPERIENCE R2016x
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 to perform time studies in an efficient and accurate manner. You will learn how to analyze manual work using various measurement techniques and how to create customized datacards. 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

What's New for DELMIA Process Planner (WPPL)

Course Code	DEL-en-WPPL-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	Process Planners
Description	This course provides you with an overview of DELMIA Manufactured Item Definition (PRD), DELMIA Process Planning (MSD), DELMIA Planning Structure (PRR) and DELMIA Equipment Allocation (MLB) apps. You will be familiarized with the process of PPR objects in the tree, managing multiple objects in the Relations window, assigning multiple resources to an operation and positioning the resources using the Cumulative Snap command.
Objectives	
Prerequisites	Students attending this course must be familiar with the basics of the 3DEXPERIENCE Platform and the EBOM/MBOM concepts.
Available Online	Yes

ENOVIA

Application Lifecycle Services

ENOVIA Collaboration and Approvals Essentials (BUPS)

Course Code	ENOV-en-BUPS-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , Japanese
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-15-161
Available Release	3DEXPERIENCE R2016x
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"> - 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	<ul style="list-style-type: none"> - CAD Designers - Engineers in charge of product development
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"> - Create a new product structure - Manage the changes in a product structure - Collaborate with Engineering BOM - Manage VPM documents - Manage Variant capability
Prerequisites	<p>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.</p>
Available Online	Yes

ENOVIA Exchanges Management Essentials (EXCH)

Course Code	ENOV-en-EXCH-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	CAD Designers, Platform Contributor.
Description	This course will teach you how to use the import / export tools in 3DEXPERIENCE (FBDI). You will also manage the mastership between V5 files and 3DEXPERIENCE files.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Import and Export 3DXML files, - Import and Export CATIA V5 files, - Manage the Mastership of the imported objects.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

ENOVIA X-CAD Design Management Essentials (XCAD)

Course Code	ENOV-en-XCAD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 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 and work in the Embedded Integration mode - Store and retrieve the CATIA V5 files in ENOVIA - Create new components, drawings and Bill of Materials (BOM) - Review and release the CAD models - Modify the existing designs and create new revisions
Prerequisites	<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>

ENOVIA X-CAD Design Management Essentials (XCAD)

Available Online

Yes

ENOVIA X-CAD Design Management for SolidWorks Essentials (XCADS)

Course Code	ENOV-en-XCADS-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 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 SOLIDWORKS Connector. You will learn how to share and manage information related to engineering design and engineering change from SOLIDWORKS and ENOVIA. You will also learn how to view the details of CAD objects, search for data, perform lifecycle operations, create and synchronize the engineering bill of materials.</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 and work in the Embedded Integration mode - Store and retrieve the SOLIDWORKS files in ENOVIA - Create new components, drawings and Bill of Materials (BOM) - Review and release the CAD models - Modify the existing designs and create new revisions
Prerequisites	<p>Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with Collaboration</p>

ENOVIA X-CAD Design Management for SolidWorks Essentials (XCADS)

and Approvals in ENOVIA and SOLIDWORKS fundamentals.

Available Online

Yes

ENOVIA

Global Product Development

ENOVIA Defect Management and Collaboration Essentials (SECO)

Course Code	ENOV-en-SECO-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Defect Engineers, Defect Managers and Product Managers
Description	This course will teach you about Products, DesignSync systems and Defect Management. You will learn how to connect and import product data from DesignSync. You will also learn how to create the process flows for fixing and reviewing the defects reported against the products by creating Defects, Defect Actions and Implementation reviews. You will also learn how to analyze the impact of a reported defect and track it across the product hierarchy.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Import a DesignSync module hierarchy as a product hierarchy - Report a Defect against a product revision - Create a Defect Action to fix the defect in a product revision - Generate the Defect Impact Analysis report - Freeze a product and create a new revision
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

ENOVIA Design Review Essentials (REEV)	
Course Code	ENOV-en-REEV-F-15-161
Available Release	3DEXPERIENCE R2016x
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 the sections and the 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-15-161
Available Release	3DEXPERIENCE R2016x
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 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	1 hours
Course Materials	English , Japanese
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
Prerequisites	Students taking this course should be familiar with the 3DEXPERIENCE platform or are advised to follow the Gateway to the 3DEXPERIENCE platform course
Available Online	Yes

ENOVIA Synchronicity DesignSync Data Manager Essentials (SYMA)

Course Code	ENOV-en-SYMA-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Software Designers and System on a Chip designers.
Description	This course will teach you about Data Management, DesignSync Data Manager and collaboration of DesignSync objects with the 3DEXPERIENCE platform. You will learn how to set up a working environment, create module and module members of different versions. You will also learn how to use various functionalities of the DesignSync tool such as populate, edit and check-in of files, tags, selectors and branching. Additionally, you will also learn to work with multiple modules and create hierarchies between them.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Set up a DesignSync working environment - Create modules and module members with different versions - Set tags and selectors on modules - Create branches of modules - Create hierarchies between different modules - Collaborate DesignSync objects with the 3DEXPERIENCE platform
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.

ENOVIA Synchronicity DesignSync Data Manager Essentials (SYMA)

Available Online	Yes
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ENOVIA Variant Management Essentials : Product Architect (VAMAPDA)

Course Code	ENOV-en-VAMAPDA-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Product Managers, Product Architects, System Engineers, Design Engineers and Marketing Managers
Description	This course will teach you how to use the 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"> - Create the product structure - Define product portfolios based on product roadmaps - Create and manage product configurations and design variants - Use Enterprise Changes to track and release features - Generate BOMs
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Variant Management Essentials : Product Manager (VAMAPDM)

Course Code	ENOV-en-VAMAPDM-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Product 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.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create the product structure - Define product portfolios based on product roadmaps - Create features and rules - Create product configurations
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

Overview of ENOVIA Variant & Configuration Management (VAMACFG)

Course Code	ENOV-en-VAMACFG-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Product Managers, Product Architects, System Engineers, Design Engineers, Marketing Managers, CAD Designers and Engineers in charge of product development.
Description	This course shares an overview of the Variant and Configuration Management. The Collaborative Lifecycle Management Essentials helps medium and large companies to launch innovative products to market faster by providing collaborative Virtual Product Management of complex products, processes and resource information—from marketing and design to manufacturing and maintenance. This course will help you learn how to use the Variant Management app for creating, managing product configurations and product variability using various configuration features and rules.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create and save a new product structure - Create and manage product configurations - Manage the changes in a product structure - Manage VPM documents - Manage the variants for a product structure
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform, should

Overview of ENOVIA Variant & Configuration Management (VAMACFG)

be familiar with Part Design and Assembly Design in CATIA and Collaboration and Approvals in ENOVIA.

Available Online

Yes

ENOVIA

Installation and Administration

3DEXPERIENCE Open Cloud Essentials (PCS)	
Course Code	ENOV-en-PCS-F-15-161
Available Release	3DEXPERIENCE R2016x
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.
Prerequisites	None.
Available Online	Yes

3DEXPERIENCE Platform Architecture Essentials (3DXA)

Course Code	ENOV-en-3DXA-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	System Administrators and Application Architects
Description	This course is intended to teach Administrators and Architects about the 3DEXPERIENCE platform Architecture, Components and Capabilities. The main goal is to learn about the 3DEXPERIENCE Platform Logical, Storage, Software, Deployment and Network Architecture as well as security features.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Describe the 3DEXPERIENCE platform architecture and its major components - Describe the Data Types in the 3DEXPERIENCE platform - Describe the Software Stack for the 3DEXPERIENCE platform - Describe the secure infrastructure provided by the 3DEXPERIENCE platform - Understand the Collaboration Modes offered by the 3DEXPERIENCE platform
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

3DEXPERIENCE Platform Services (TMO5)

Course Code	ENOV-en-TMO5-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers Companies who would like to use the widespread configuration capabilities of the 3DEXPERIENCE platform.
Description	This course is intended to teach Administrators and Implementers about the 3DEXPERIENCE platform tools, interfaces as well configure services. The main goal is to learn Out-of-the-box functions and how to customize it.
Objectives	Upon completion of this course you will be able to: <ul style="list-style-type: none"> - Create new attributes and subtypes and deploy them into the 3DEXPERIENCE platform.
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and should be familiar with Studio Matrix Navigator, Business Modeler Studio and Studio MQL in ENOVIA.
Available Online	Yes

Data Model Development: Studio Business Modeler (TMO3)

Course Code	ENOV-en-TMO3-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	This course is intended to teach Administrators how to work with the 3DEXPERIENCE Studio Business applications and how to define the new schema or modify existing schema. The main goal is to learn how to use existing capabilities of the 3DEXPERIENCE platform to perform business administrator tasks.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Describe the basics of a 3DEXPERIENCE Platform schema - Understand the AEF Schema to customize the data model - Design and implement a 3DEXPERIENCE Platform schema using the Business Modeler
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and should be familiar with Studio Matrix Navigator in ENOVIA.
Available Online	Yes

Data Model Development: Studio Matrix Navigator (TMO1)

Course Code	ENOV-en-TMO1-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	6 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	This course is intended to teach administrators how to work with 3DEXPERIENCE Open 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"> - Describe the 3DEXPERIENCE Platform Architecture and its components. - Explain the 3DEXPERIENCE Platform Schema and its Data Model. - Use the 3DEXPERIENCE Open Studio Matrix Navigator to create and edit Business Objects.
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform Business Administrators, System Administrators and Implementers
Description	This course is intended to teach administrators and developers how to test, manage, and modify the data model via MQL (Matrix Query Language). They will also learn how to extract / import data and work with scripts.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Understand basic MQL commands - Modify the schema - Create, modify, delete and query business objects - Export and import data - Create MQL scripts
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform and should be familiar with Studio Matrix Navigator and Business Modeler Studio in ENOVIA.
Available Online	Yes

One Click Deployment Essentials (OCD)	
Course Code	ENOV-en-OCD-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform PLM-Administrators and Implementers
Description	This course will show the available customization functions of 3DEXPERIENCE Platform via Web Administration console. It will describe the One-Click Deployment Experience mechanisms for customers who would like to use the OOTB functionality and predefined Schema as much as possible, without deeper customization needs.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create collaborative spaces, users and assign required access rights to different users - Explore the lifecycle states transition mechanisms available in the One-Click Deployment Experience - Configure the 3DEXPERIENCE platform to add additional features as per your requirements
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course.
Available Online	Yes

ENOVIA

IP Classification and Protection

ENOVIA Classify and Reuse Essentials (CLRE)	
Course Code	ENOV-en-CLRE-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE Platform Users.
Description	This course will teach you how to use the ENOVIA Classify and Reuse App to search and view different types of libraries and the objects hierarchy. You will also learn how to manage the objects using these libraries.
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	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 IP Classification Essentials (PACL)	
Course Code	ENOV-en-PACL-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Classification Managers, Securities Services Managers, Technical Writers, Business Administrators and System Administrators
Description	This course will teach you how to use the ENOVIA IP Classification app to create document libraries, part libraries and general libraries and use of these libraries for organizing the parts and documents. You will learn how to store, manage and access documents and other files within the application in a collaborative work environment. Further, you will learn how to retain documents.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create different types of libraries and their related hierarchies - Create and manage documents and parts - Classify the library objects based on their features - Use the Classification functionality
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA IP Protection Classification Essentials (IPCL)	
Course Code	ENOV-en-IPCL-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Product Managers, IP Security Manager, IP Compliance Officer
Description	This course will teach you how to secure the Intellectual Property in a company. You will learn to use various features and create security classes, libraries, rules and exceptions.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create Security Libraries and Classes - Define Security Rules and Exceptions on Intellectual Property - Authorize Intellectual Property - Generate Export Logs
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally, they should have knowledge of Collaboration and Approvals as well as IP Classification.
Available Online	Yes

ENOVIA

Product Planning and Program Management

ENOVIA Project Execution Essentials (PREX)	
Course Code	ENOV-en-PREX-F-15-161
Available Release	3DEXPERIENCE R2016x
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"> - Create projects - Create and edit the project schedule - Create and assign accesses 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-15-161
Available Release	3DEXPERIENCE R2016x
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"> - 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Materials	English , Japanese
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 the project documents - Create process flow for the tasks - Review the status of programs and projects - Exchange and view projects' data using Microsoft Project Integration
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course. Additionally they should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

What's New for Project Managers (WDPM)	
Course Code	ENOV-en-WDPM-F-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	3DEXPERIENCE platform Users
Description	The What's New course introduces you to new and enhanced functionalities in the Project Manager's role. In the ENOVIA Project Management app, you will learn how to create a calendar. You will also learn how to change or add co-owners in a project template. You will see the new and enhanced functionalities in the ENOVIA Collaboration and Approvals app.
Objectives	
Prerequisites	You should be familiar with the Project Manager's role in the 3DEXPERIENCE platform.
Available Online	Yes

ENOVIA

Quality and Compliance Management

ENOVIA Materials Compliance Management Essentials (MACO)

Course Code	ENOV-en-MACO-F-15-161
Available Release	3DEXPERIENCE R2016x
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 for customers.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create environmental compliances - Perform compliance analysis - Collaborate with suppliers - Create material declarations - Generate compliance reports
Prerequisites	Students attending this course should have completed the Gateway to the 3DEXPERIENCE Platform course and should be familiar with Collaboration and Approvals in ENOVIA.
Available Online	Yes

ENOVIA Materials Compliance Reporting Essentials (MADA)

Course Code	ENOV-en-MADA-F-15-161
Available Release	3DEXPERIENCE R2016x
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 it - 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

ENOVIA

Strategic Customer Relationship Management

ENOVIA Traceable Requirements Management Essentials (RERE)

Course Code	ENOV-en-RERE-F-15-161
Available Release	3DEXPERIENCE R2016x
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 and

ENOVIA Traceable Requirements Management Essentials (RERE)

should be familiar with Collaboration and Approvals in ENOVIA.

Available Online

Yes

EXALEAD

OnePart

Overview of EXALEAD OnePart (OS1P)	
Course Code	EXA-en-OS1P-F-15-161
Available Release	3DEXPERIENCE R2016x
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	This course will introduce you on EXALEAD OnePart, a Discovery Application used by design, engineering and manufacturing teams to find and reuse legacy parts, 2D/3D designs, and related documentation contained in CAD and file systems from across the enterprise.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Install EXALEAD OnePart R2016x on your environment - Set up OnePart R2016x: how to import the demo data, how to import your own data - Understand the CloudView indexing life cycle - Understand the CloudView Security model
Prerequisites	Students attending this course should be familiar with CATIA V5 or SolidWorks basics such as Part Design, Assembly Design, Drafting
Available Online	Yes

SIMULIA

Multiphysics Simulation

SIMULIA 3DPlay Simulation Experience Essentials (3DP)

Course Code	SIM-en-3DP-F-15-161
Available Release	3DEXPERIENCE R2016x
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 - Multiphysics Simulation Researcher - 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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the Composites Simulation Engineer role.
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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	<p>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.</p>
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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 - Multiphysics Simulation Researcher - 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

SIMULIA Performance Study Essentials (DISB)

Available Online

Yes

SIMULIA Physics Results Explorer Essentials (PHYR)

Course Code	SIM-en-PHYR-F-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
Duration	2 hours
Course Material	English
Level	Fundamental
Audience	This course is intended for the Simulation Process Method Developer role.
Description	This course is an introduction to the web-based tool in the 3DEXPERIENCE Platform that allows methods developers to create customized interfaces for the Simulation Experiences. This app is similar to a form builder which lets the methods developer quickly develop the customized interface.
Objectives	Upon completion of this course you will be able to: <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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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-15-161
Available Release	3DEXPERIENCE R2016x
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

