

COURSE CATALOG

V5

March 2014



3DEXPERIENCE

3DS Learning Solutions | Course Catalog

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DELMIA

DELMIA Assembly V5

Assembly Process Planner (APN)	
Course Code	DEL-en-APN-F-V5R23
Available Releases	V5-6R2013 , V5R19 , V5R21
Duration	8 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Industrial Engineers, Assembly Planners
Description	This course will teach you to create manufacturing assembly process plans rapidly with easy-to-use tools. You will learn to use the engineering Bill of Materials or a manufacturing assembly template to create the initial process and resulting manufacturing assembly structure. Using Assembly Spec Tree editor you can visualize the manufacturing assembly structure which can be quickly refined with intuitive drag-and-drop capabilities for parts.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Author the assembly operations and the resulting manufacturing assemblies - Balance part and assembly distribution between assembly operations
Prerequisites	Students attending this course should be familiar with the DELMIA V5 fundamentals and E5 Process Engineer
Available Online	Yes

Assembly Process Planner - Auto (APA)	
Course Code	DEL-en-APA-F-V5R19
Available Release	V5R19
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Industrial Engineers, Assembly Planners
Description	This course will teach you to create manufacturing assembly process plans rapidly with easy-to-use tools. You will learn to use the engineering Bill of Materials or a manufacturing assembly template to create the initial process and resulting manufacturing assembly structure. Using Assembly Spec Tree editor you can visualize the manufacturing assembly structure which can be quickly refined with intuitive drag-and-drop capabilities for parts.
Objectives	<p>Upon the completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Author the assembly operations, and the resulting manufacturing assemblies - Balance part and assembly distribution between assembly operations
Prerequisites	Students attending this course should have knowledge of CATIA V5 fundamentals and E5 Process Engineer
Available Online	Yes

Basic Mechanical Design for DELMIA Engineers (BMD)

Course Code	DEL-en-BMD-F-V5R21
Available Releases	V5R20 , V5R21
Duration	8 hours
Course Material	French
Level	Fundamental
Audience	Manufacturing Engineers who need to quickly create simple 3D objects in DELMIA.
Description	This course will teach you how to create simple 3D objects such as tooling, end-effectors, equipments (to be used in DELMIA simulations). It covers the basic use of the following workbenches: "Part Design", "Assembly Design", "Device Building" (Forward Kinematics), and "Drafting" (to generate a 2D drawing from the 3D objects).
Objectives	<p>Upon completion of this Course you will be able to:</p> <ul style="list-style-type: none"> - Create a Part (sketching, extrusion, pocket) - Create an Assembly (positioning with Constraints) - Create a simple mechanism (door) - Generate a 2D drawing from the 3D data
Prerequisites	Students attending this course should be familiar with the V5 infrastructure.
Available Online	No

DPM Assembly (ASY)	
Course Code	DEL-en-ASY-F-V5R23
Available Releases	V5-6R2013 , V5R19 , V5R20 , V5R21
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Industrial, Mechanical Engineers
Description	This course will teach you how to create simulations for an Assembly Project used in a stand alone mode using a task-based approach. You will learn the commands, options, and menus within the context of completing a design task with the help of case studies illustrating these precesses.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create the working environment - Create the process plan - Create and enhance the simulation - Analyze movement - Create output files - Conduct tool validation
Prerequisites	Students attending this course should be familiar with V5 fundamentals and Mechanical Engineering in general.
Available Online	Yes

DPM Hub Assembly (HAS)	
Course Code	DEL-en-HAS-F-V5R19
Available Release	V5R19
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Industrial, Mechanical Engineers
Description	With the basic ability to work within V5 Software, this course in Hub Assembly will introduce you to the initial aspects of preparing a simulation world for an assembly project. The assumption is that the software is going to be used with the Manufacturing Hub and other Software such as Process Engineer.
Objectives	<p>Upon completion of this Course you will be able to:</p> <ul style="list-style-type: none"> - Create the Working Environment - Create a Simulation for an assembly - Enhance the Simulation - Analyze the Simulation - Create Output Files - Conduct Tool Validation
Prerequisites	Students attending this course should have knowledge of V5 fundamentals and Mechanical Engineering
Available Online	Yes

DELMIA
DELMIA D5 QUEST V5

Advanced QUEST (AQT)	
Course Code	DEL-en-AQT-A-V5R19
Available Release	V5R19
Duration	24 hours
Course Material	English
Level	Advanced
Audience	Mechanical Engineers, Simulation Engineers, or Industrial Engineers with processing, simulation, or analysis responsibilities
Description	This course will teach you how to create discrete event simulation that allows to design and analyze complex systems. You will learn to create various elements that form the system.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Build a program in SCL and BCL - Generate graphical outputs
Prerequisites	Students attending this course should have knowledge of Mechanical design and Discrete event simulation
Available Online	Yes

QUEST (QST)	
Course Code	DEL-en-QST-F-V5R23
Available Releases	V5-6R2013 , V5R19 , V5R21
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical Engineers, Simulation Engineers, and Industrial Engineers who are responsible for processing, simulating, and analyzing industrial systems.
Description	This course will teach you how to create a discrete event simulation that will enable you to design and analyze complex systems. You will learn how to create the basic elements (such as Parts, Source, and Sink) of a Production System and the various Material Handling Systems (MHS) that facilitate in the movement of Parts. You will also learn how to create the Kinematics Parts and Devices and simulate the model by defining the Shifts and Failures.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create the basic elements that form the Queuing Event Simulation Tool (QUEST) model - Build the elements of Material Handling Systems that are specific to the QUEST model - Create and manipulate kinematics devices - Define Shifts and Failures - Simulate the model
Prerequisites	Students attending this course should be familiar with the fundamentals of Mechanical Design and Discrete Event Simulation.

QUEST (QST)

Available Online

Yes

DELMIA

DELMIA Human V5

Human Option (HSO)	
Course Code	DEL-en-HSO-F-V5R20
Available Releases	V5R19 , V5R20
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	New DELMIA V5 users with Manufacturing Assembly responsibilities
Description	This course will teach you how to create virtual mannequins, manipulate them, modify their dimensions, and realize joint movements. You will learn how to place the mannequin into a DPM Assembly for tracking, and Robotics for establishing I/O signals. You will also learn about the expanded capability for walking and analyzing the mannequin actions within the project.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create the working environment - Create a manikin and a workspace - Perform a human task simulation
Prerequisites	Students attending this course should know Mechanical Engineering and the Windows Operating System
Available Online	Yes

Virtual Ergonomics Solutions (HUM)	
Course Code	DEL-en-HUM-F-V5R20
Available Releases	V5R19 , V5R20
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	New DELMIA V5 users with Manufacturing Assembly responsibilities
Description	This course teaches you how to use the Human software to create an accurate simulation of a human entity and its work environment to ensure a natural operation. You will learn to create, manipulate, and analyze how the manikins interact with a product and its environment.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create the working environment - Create a manikin and a workspace - Use the Human Measurements Editor - Perform a Human Activity Analysis - Perform a Human Posture Analysis - Perform a Human Task Simulation
Prerequisites	Students attending this course must know Mechanical Engineering and the Windows Operating System
Available Online	Yes

DELMIA

DELMIA Lofting V5

DPM Structure Lofting (DST)	
Course Code	DEL-en-DST-F-V5R20
Available Releases	V5R19 , V5R20
Duration	40 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Industrial Engineers, Lofters
Description	This course will teach you how to perform lofting in 3D environment, addressing the manufacturing requirements for the high-end shipyards that utilize upstream process planning. You will learn to generate and navigate through the in-process models, showing the interim products at each stage of the manufacturing process.
Objectives	<p>Upon completion of this course you will be able to perform:</p> <ul style="list-style-type: none"> - Joining operations - Initial marking and cutting operations - Plate forming operations - Profile bending operations - Extraction of workshop documents
Prerequisites	Students attending this course should be familiar with the CATIA V5 Fundamentals and DELMIA Basic Process Engineer courses
Available Online	Yes

Structure Manufacturing Preparation (SMP)	
Course Code	DEL-en-SMP-F-V5R19
Available Release	V5R19
Duration	32 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Industrial Engineers, Lofters
Description	This course will teach you how to perform lofting in 3D environment, addressing the manufacturing requirements for the high-end shipyards that utilize upstream process planning.
Objectives	<p>Upon completion of this course you will be able to perform:</p> <ul style="list-style-type: none"> - Joining operation - Initial marking and cutting operation - Plate forming operation - Profile bending operation - Extracting Workshop documents
Prerequisites	Students attending this course should have knowledge of CATIA V5 fundamentals and E5 Process Engineer
Available Online	Yes

DELMIA

DELMIA Machining V5

DPM Machining Process Planner (MPP)	
Course Code	DEL-en-MPP-F-V5R20
Available Releases	V5R19 , V5R20
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Process Planners, Mechanical and Industrial Engineers
Description	This course will teach you how to define and assign all relevant parameters; home positions, travel limits, kinematics, thus enabling a unique definition of an NC Machine processes. The resultant NC machines can be used for all machining applications like planning, NC Detailing, post-processing, verification and simulation.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create a working environment - Create the Process - Create and detail the Process Plan - Verify the Process - Enhance the Process Plan - Create Output files - Create and edit the Lathe Process Plan - Create process plan for Inseperable Assemblies - Use the Manufacturing Hub to map processes
Prerequisites	Students attending this course should be familiar with the CATIA V5 Fundamentals course, Machining terminology and Process Planning
Available Online	Yes

NC Machine Tool Builder (MBG)	
Course Code	DEL-en-MBG-F-V5R19
Available Release	V5R19
Duration	20 hours
Course Material	English
Level	Fundamental
Audience	New CATIA or DELMIA V5 designers, NC simulation engineers
Description	This course will teach you how to build NC machine tools in CATIA or DELMIA. This course focuses on the fundamental skills and concepts that enable you to create a solid foundation for your products.
Objectives	<p>Upon Completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Build fully functional NC machines, with various axis and layout configurations - Create home positions, toolchange positions/ Assign travel limits - Specify speed and acceleration limits, axis names, axis direction - Replace component parts of the finished machine tool - Create a functional machine tool from a template machine
Prerequisites	Students attending this course should have knowledge of Mechanical design and NC machine tools
Available Online	Yes

NC Machine Tool Simulation (MSG)	
Course Code	DEL-en-MSG-F-V5R19
Available Release	V5R19
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Design engineers, NC simulation engineers
Description	This course will teach you how to define and assign all the relevant parameters, home positions, travel limits, kinematics etc. to have a unique definition of an NC Machine using the NC Machine Tool Builder. It will also teach you to run the machine simulation. The collisions detected are analyzed and fixed.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Assign an NC machine to a Part Operation - Assign a turret to a Manufacturing Program - Mount tools and workpieces on a Machine - Run the machine simulation - Set up, detect and analyze simulation faults - Create a collision report
Prerequisites	Students attending this course should have knowledge of Mechanical design and NC machine tools
Available Online	Yes

DELMIA

DELMIA Manufacturing Hub V5

Basic Process Engineer (DPE)	
Course Code	DEL-en-DPE-F-V5R23
Available Releases	V5-6R2013 , V5R19 , V5R20 , V5R21
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Mechanical and Industrial Engineers
Description	This course will teach you how to implement DELMIA Process Engineer in your environment. You will learn how to recognize process risks, reuse proven processes, trace changes and decisions, and access scattered process knowledge. You will also learn how to use DELMIA Process Engineer during the development of a new project.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Organize, evaluate, and manage the Product, Process, and Resource data in the project tree structure - Establish relationships between the products, processes, and resources - Integrate the PPR Hub with QUEST and DPM - Import data from the PPR Hub into QUEST and DPM
Prerequisites	Students attending this course must be familiar with Mechanical Engineering and fundamentals of DELMIA V5 in general.
Available Online	Yes

DELMIA DELMIA PLM Express V5

Automation (AUTO)	
Course Code	DEL-en-AUTO-F-V5R20
Available Releases	V5R19 , V5R20
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Systems and Controls Engineers, Mechanical and Industrial Engineers
Description	This course will teach you how to build the virtual environment in DELMIA Automation.
Objectives	<p>Upon completion of this course you will able to build the virtual environment in DELMIA Automation using following steps:</p> <ul style="list-style-type: none"> - Create a basic control logic - Create an internal logic for an existing device (i.e. smart device) - Create a basic control panel - Combine control logic, a smart device and a control panel into a simulation
Prerequisites	Students attending this course should know Systems Control and the fundamentals of DELMIA V5
Available Online	Yes

PLMX Arc Welding (ARB)	
Course Code	DEL-en-ARB-F-V5R20
Available Releases	V5R19 , V5R20
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Industrial, Mechanical Engineers
Description	This course will teach you about the initial aspects of creating an environment for the Robotic Activity.
Objectives	<p>Upon completion of this course, you will learn how to:</p> <ul style="list-style-type: none"> - Prepare the working environment - Create arc welding tasks - Optimize robot motion - Work with Arc Macro Programming
Prerequisites	Students attending this course should be familiar with the CATIA V5 Fundamentals course and Mechanical Engineering in general
Available Online	Yes

PLMX Human (XHM)	
Course Code	DEL-en-XHM-F-V5R20
Available Releases	V5R19 , V5R20
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Mechanical and Industrial Engineers
Description	This course will teach you how to use the PLMX Human software to create an accurate simulation of a human entity and its work environment to ensure a natural operation. You will learn to create, manipulate, and analyze how the mannequins interact with a product and its environment.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Set options to optimize the software environment - Create the simulation of a human entity and its workplace environment - Create a manikin to assess the Form, Fit and Function of a product - Analyze the manikin's Kinematics, Posture, and Activity
Prerequisites	Students attending this course should be familiar with the CATIA V5 Fundamentals course
Available Online	Yes

PLMX Spot Robotics (SRB)	
Course Code	DEL-en-SRB-F-V5R20
Available Releases	V5R19 , V5R20
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Industrial, Mechanical Engineers
Description	This course will teach you about the initial aspects of creating an environment for the Robotic Activity.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Prepare the work environment for the Robotic Activity - Create tags and robot tasks - Optimize the simulation - Use advanced spot welding features
Prerequisites	Students attending this course should be familiar with Mechanical Engineering and the Windows Operating System
Available Online	Yes

PLMX Workcell Builder (RWB)	
Course Code	DEL-en-RWB-F-V5R20
Available Releases	V5R19 , V5R20
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Industrial, or Mechanical Engineers
Description	This course will teach you about the initial aspects of creating a workcell environment for the Robotic Activity.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Prepare the working environment - Build the layout - Create tags
Prerequisites	Students attending this course should be familiar with Mechanical Engineering and the Windows Operating System
Available Online	Yes

DELMIA

DELMIA Robotics V5

Body in White Fastener Planning (BIW)	
Course Code	DEL-en-BIW-F-V5R20
Available Releases	V5R19 , V5R20
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Systems and Controls Engineers, Mechanical and Industrial Engineers.
Description	This course will teach you to author, validate, and optimize the Body In White manufacturing process plans. You will learn to create concept lines with the targets of cost, volume cycle time, and area. You will also learn how the Resource and standard module planning may be pulled from the Manufacturing Hub to define the concept line, using the company practice templates. This course will also teach you how to detail and evaluate the zones before initializing the setup saving time and money.
Objectives	<p>Upon completion of this course you will be able to</p> <ul style="list-style-type: none"> - Work with a spare wheel assembly dataset using the Assembly Process Planner tool, the Body-In-White Fastener Process Planning tool, and the V5 Robotics tool. - Use & define Line concept - Perform capacity planning - Use the Tool Selection Assistant
Prerequisites	Students attending this course should be familiar with CATIA V5 Fundamentals and DELMIA Basic Process Engineer courses

Body in White Fastener Planning (BIW)

Available Online

Yes

DELMIA Device Building - Advanced Kinematics (DBG)	
Course Code	DEL-en-DBG-A-V5R21
Available Releases	V5R20 , V5R21
Duration	8 hours
Course Materials	English , French
Level	Advanced
Audience	Kinematics experts in charge of creating the devices in DELMIA V5
Description	This course will teach you how to create complex devices using the “Device Building” workbench. You will learn different methods to create Forward Kinematics (using Components, Frames of Interest, Dress-up...) and Inverse Kinematics (Numeric, Generic, Device, User DLL). The Kinematic Relations, Auxiliary Devices and 3D Data simplification are also explained.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create complex devices such as industrial or special robots (with the adequate V5 product structure) - Create complex Forward and Inverse Kinematics - Create Kinematic Relations, auxiliary devices - Simplify the V5 3D data
Prerequisites	Students attending this course should be familiar with the DELMIA V5 infrastructure and the concepts of Forward and Inverse Kinematics.
Available Online	No

DELMIA Offline Programming Customization (OLP)	
Course Code	DEL-en-OLP-A-V5R21
Available Releases	V5R20 , V5R21
Duration	8 hours
Course Material	French
Level	Advanced
Audience	Expert users and Developers who want to customize the DELMIA V5 Robotic translators (OLP)
Description	This course will teach you how to download a RobotTask, how to setup the OLP parameters in the user interface, how to customize the XSLT to get the desired robot program (including tool/base management, comments, logics, etc). It also covers the Kuka and ABB translators customization.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Setup the generic parameters in the user interface (comment, tool, base, etc) - Setup the parameters required for the Kuka and ABB translator - Learn the basics of XSLT programming - Customize the ABB and Kuka translators.
Prerequisites	Students attending this course should be familiar with DELMIA V5 Robotics and the basic concepts of programming.
Available Online	No

DELMIA Robotics for Aerospace (WLA)	
Course Code	DEL-en-WLA-F-V5R21
Available Releases	V5R20 , V5R21
Duration	16 hours
Course Materials	English , French
Level	Fundamental
Audience	Manufacturing Engineers in charge of Robotic Simulations and Off-Line Programming in the aerospace industry.
Description	The process covered in this course (robotized drilling/riveting) comes from the aerospace industry. This course will teach you how to perform robotic simulations and OLP using “Device Task Definition” and “Workcell Sequencing”. It gives an overview of the “Device Building” and OLP workbench (Inverse Kinematics and Calibration are not covered).
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create devices (end-effectors, workpiece positionner...) - Create a robotic workcell (inserting user devices or robots from the DELMIA catalog, moving, attaching and mounting devices) - Jog the robots - Create the TagGroups and the RobotTasks - Use the Teach panel - Create a PERT/Gantt chart - Simulate the complete process - Use IO, Collisions Detection, OLP...
Prerequisites	Students attending this course should be familiar with the V5 Infrastructure, and more generally with

DELMIA Robotics for Aerospace (WLA)

the Robotic domain. This course is “file-based” (no connection with the DELMIA Manufacturing Hub).

Available Online

No

V5 Robotics (ROB)	
Course Code	DEL-en-ROB-F-V5R23
Available Releases	V5-6R2013 , V5R19 , V5R20 , V5R21
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Simulation, Industrial, Mechanical 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 tag and robot task. You will also learn to create Input/ Output (IOs) connections and validate them in context with the organizational resource. Finally, you will learn to create robot controller profiles.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Prepare the working environment - Build the layout - Create tags and robot tasks - Optimize the simulation
Prerequisites	Students attending this course should be familiar with DELMIA V5 Fundamentals and Mechanical Engineering in general.
Available Online	Yes

VBA for DELMIA (VBD)	
Course Code	DEL-en-VBD-A-V5R21
Available Releases	V5R20 , V5R21
Duration	8 hours
Course Material	English
Level	Advanced
Audience	Developers who want to create VBA macro for DELMIA V5 Robotics
Description	This course is for expert users who want to develop VBA macros to automate various tasks in DELMIA Robotics such as inserting products and resources, create activities, tags and robottasks, create a robottask from a DPM Assembly Move Activity, create HTML documentation, import/export a process plan from/to Microsoft Project etc.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Insert and position products and resources - Create Tags, TagGroups, RobotTasks and activities - Create a Robottask from a DPM Assembly Move activity - Create simple HTML documentation - Import/export a process plan from/to Microsoft Project
Prerequisites	Students attending this course should be familiar with the VBA language and DELMIA V5 Robotics.
Available Online	No