

COURSE CATALOG

V6

April 2014



3DEXPERIENCE

3DS Learning Solutions | Course Catalog

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SIMULIA

SIMULIA V6 Analysis

CATIA Structural Analysis Fundamentals (V6AF)

Course Code	SIM-en-V6AF-F-V6R131
Available Releases	V6R2012 , V6R2012x , V6R2013 , V6R2013x
Duration	12 hours
Course Materials	English , Japanese
Level	Fundamental
Audience	Mechanical Designers, Structural Analysts
Description	This course will introduce the concepts and benefits of Finite Element Analysis and the general analysis process. It will teach you how to prepare a model for analysis, create 1D, 2D and 3D FE models, and compute a simple static analysis for a single part or an assembly.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create a Finite Element Analysis model - Prepare a solid or surface model for analysis - Create 1D, 2D and 3D meshes for beam, surface, and solid models - Assign properties, create loads and constraints, and define connection properties - Compute an analysis for a part or an assembly - Generate and display analysis results
Prerequisites	CATIA V5 Fundamentals, CATIA V5 to V6 Mechanical Design Transition
Available Online	Yes

CATIA V5 to V6 Analysis Transition (V6AT)

Course Code	SIM-en-V6AT-F-V6R131
Available Releases	V6R2012 , V6R2012x , V6R2013 , V6R2013x
Duration	8 hours
Course Materials	English , Japanese
Level	Fundamental
Audience	Designers, Analysts
Description	<p>This course will introduce you to CATIA V6 and the fundamental concepts of PLM. You will learn how to search for models in the V6 database and how to import existing V5 data. Using a role-based scenario in the context of an assembly you will learn how to design parts in collaboration with other users, perform modifications, check impacts, and propagate the modifications to the impacted parts. You will also learn how to perform a finite element analysis for structures in CATIA V6 (preprocessing, computation, postprocessing, and assembly analysis)</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Import existing CATIA V5 data and store in V6 - Search for data in the V6 database - Open V6 parts for modification - Share information with other users - Perform Part and Assembly Structural Analysis using new and enhanced functions.
Prerequisites	Students should have attended the CATIA V5 Fundamentals and CATIA V5 Analysis courses.
Available Online	Yes

SIMULIA

SIMULIA V6 DesignSight

Introduction to DesignSight (DEI)	
Course Code	SIM-en-DEI-F-V6R131
Available Releases	V6R2013 , V6R2013x
Duration	4 hours
Course Material	English
Level	Fundamental
Audience	Simulation Designers and Analysts
Description	This course will teach you how to perform a Structural/Frequency simulation using DesignSight Structure and Structure Plus. You will learn how to perform a Thermal simulation using DesignSight Thermal. You will also learn how to review simulations stored in the V6 database and generate reports.
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 V6 database - Open a DesignSight simulation for modification - Perform a Structural/Frequency simulation using DesignSight Structure and Structure Plus - Perform a Thermal simulation using DesignSight Thermal - Review simulations stored in the database and generate reports
Prerequisites	Students attending this course should be familiar with SIMULIA V6 fundamentals.
Available Online	Yes

SIMULIA

SIMULIA V6 ExSight

Introduction to ExSight (EXI)	
Course Code	SIM-en-EXI-F-V6R131
Available Releases	V6R2013 , V6R2013x
Duration	24 hours
Course Material	English
Level	Fundamental
Audience	Simulation Analysts
Description	<p>This course will teach you how to work with assemblies and prepare them for ExSight simulations. You will learn how to use the Advanced Meshing workbench to mesh the assembly components. You will also learn how to build FEA models using various model features such as materials, section properties and connections, and how to create scenarios using different steps with different loads, restraints and contact interactions. This course will also teach you how to perform the post-processing of the model after its successful solving.</p>
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Create complete finite element models - Run and monitor the simulations - View and evaluate the simulation results - Perform structural simulations (such as effects of material nonlinearity, large deformation and contact)
Prerequisites	None
Available Online	Yes

SIMULIA

SIMULIA V6 Isight

Introduction to Isight (ISGT)

Course Code	SIM-en-ISGT-F-V6R130
Available Release	V6R2013
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	The course is recommended for new Isight users and anyone else interested in learning more about Isight, including mechanical designers, analysts and methods developers.
Description	Isight is a Process Integration and Design Optimization (PIDO) software framework, which enables various applications to be easily integrated. With Isight you can create flexible simulation process flows to automate the exploration of design alternatives and identification of optimal performance parameters. This course comprehensively covers the Design and Runtime Gateways along with several fundamental components, exposing users to the ways in which a workflow can be built in Isight and the ways in which the design space can be explored.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Automate a series of functions to create a Sim-flow - Add components to a Sim-flow - Set up the core component - Configure components to pass data to/from each other - Execute a Sim-flow - Visualize Sim-flow results - Evaluate design alternatives - Create a workflow to capture a process, by integrating various software in the company.

Introduction to Isight (ISGT)

- Perform Design Optimization using various techniques such as DOE, Optimization, Monte Carlo etc.

Prerequisites

None

Available Online

Yes

SIMULIA

SIMULIA V6 Multiphysics Digital Lab

SIMULIA Scenario Definition Essentials (SCE)	
Course Code	SIM-en-SCE-F-V6R130
Available Releases	V6R2012x , V6R2013
Duration	16 hours
Course Material	English
Level	Fundamental
Audience	Simulation Analysts, Simulation Method Developers and Reviewers
Description	This course teaches how to create and maintain simulation data and processes. You will learn how to capture your existing processes, connect to external applications and turn your workflows into reusable templates. You will also learn how to perform various functions associated to the management of the lifecycle of your data, such as setting accesses, and promoting simulations to the next level for approval.
Objectives	<p>Upon completion of this course you will be able to:</p> <ul style="list-style-type: none"> - Integrate and control the execution of simulation applications - Carry out operations such as query and version control - Administrate access privileges and perform and review simulations in a distributed, collaborative environment - Use the SIMULIA Scenario Definition Connectors Framework to deploy and execute simulation authoring applications developed by your company, SIMULIA, Dassault Systèmes, or third parties
Prerequisites	None

SIMULIA Scenario Definition Essentials (SCE)

Available Online

Yes