

COURSE CATALOG

3DEXPERIENCE
July 2014



3DEXPERIENCE

3DS Learning Solutions | Course Catalog

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SIMULIA

Design Simulation

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

SIMULIA

Multiphysics Simulation

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

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