

## SIMULIA Training « Simulation Model Design Essentials »

## **General Information**

This course is an introduction to creating and assembling geometry in the 3DEXPERIENCE Platform. The focus is on techniques relevant to simulation.

Duration 1 day

LangageAudienceFrench / EnglishMechanical Analyst

- Structural Analysis Engineer

- Finite Element Modeling & Assembly Specialist

Prerequisites None

## **Objectives**

Upon completion of this course you will be able to:

Create basic native solid geometry.

Create basic native shell geometry.

Create assemblies of parts

Topics	Description
Lesson 1 : Introduction to the 3DEXPERIENCE Platform	<ul><li>What is the 3DEXPERIENCE Platform?</li><li>Architecture</li></ul>
Vorkshop Preliminaries	<ul><li>Packaging</li><li>3DEXPERIENCE Platform Services</li></ul>
Norkshop 1: Getting Started with the 3DEXPERIENCE	Connecting to the Platform     Platform Interface
Platform	Importing and Exporting Data
	<ul><li>Searching Data</li><li>Exploring Data</li></ul>
	Managing Data
	Compute Orchestration Services
Lesson 2 : Working with Geometry	Working in the 3DEXPERIENCE Platforn
	Importing vs. Building CAD Models
Norkshop 2a: Intersecting Pipes Geometry	<ul><li>Importing CAD Models</li><li>Building CAD Models</li></ul>
Workshop 2b: Screwdriver Geometry	Layout     Chasting Tree
	<ul> <li>Specification Tree</li> <li>Data Structure of 3D Parts</li> </ul>
Workshop 2c: Reinforced Panel Geometry	Hybrid Design
	Part Design Essentials
Workshop 2d: Connecting Rod and Piston Geometry	<ul><li>Generative Wireframe and Surface</li><li>Patterning</li></ul>
	Stacked Commands

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**Lesson 3 : Creating Assemblies** 

Workshop 3a: Screwdriver Assembly

Workshop 3b: Reinforced Panel Assembly

Workshop 3c: Cargo Crane Assembly

Workshop 3d: Crimp Forming Assembly

Workshop 3e: Connecting Rod and Piston Assembly

- What is an Assembly?
- Inserting Parts in an Assembly
- Positioning Parts
- Creating Multiple Part Instances
- Part-Level Features
- Publications

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