



*Hands On, Measurable  
Training Programs*

## SIMULIA Structural Model Creation Essentials

Course Code	SIM-en-MECM_F
Brand & Release	<b>3DEXPERIENCE®</b> R2018x
Duration	1 day
Level	Fundamentals
Prerequisites	Simulation analysts and engineers who will prepare finite element models in the <b>3DEXPERIENCE</b> platform will benefit from attending this class.

### Objectives:

This course is an introduction to finite element modeling in the **3DEXPERIENCE** platform. It teaches you how to prepare finite element models for simulation.

### Class Structure:

Upon completion of this course you will be able to:

- Create complete Finite Element models for structural and thermal simulations

The course covers the following topics:

- Meshing
- Materials
- Section Properties
- Connections
- Rigid Bodies

The course is intended for the following Roles:

- Mechanical Analyst
- Structural Vibration Analyst
- Noise and Vibration Analyst
- Multiphysics Simulation Researcher
- Structural Analysis Engineer
- Steel Ship Structural Analysis Engineer
- Finite Element Modeling & Assembly Specialist

### Class Lessons:

Lesson 1: **3DEXPERIENCE** Platform Overview

Lesson 2: Getting Started with Simulation Modeling

Lesson 3: Meshing

Lesson 4: Material and Section Properties

Lesson 5: Connections and Rigid Bodies