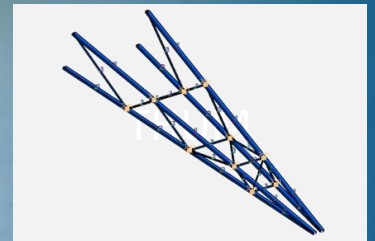


STRUCTURAL MODEL CREATION ESSENTIALS

SIMULIA COURSE DESCRIPTION



Level: Fundamental
Products: 3DEXPERIENCE
Disciplines: Structures

Audience
This course is intended for all roles that enable the Structural Model Creation app, including:

- Structural Engineer
- Structural Performance Engineer
- Structural Mechanics Engineer
- Structural Analysis Engineer

Why take this course?

This course is an introduction to finite element modeling with the Structural Model Creation app on the 3DEXPERIENCE platform. It teaches you how to prepare Finite Element Models for simulation. This includes meshing, material assignment and section properties, and defining connections or rigid bodies.

What will you learn?

Upon completion of this course, you will be able to:

- Create complete Finite Element Models for structural and thermal simulations
- Define meshes including solid, shell/surface and beam elements

- Mesh checking and element/node groups
- Create materials and properties
- Define connectors, virtual bolts, fasteners, rigid bodies and analytical rigid surfaces (ARS)

Explore Your Learning Options

Live Sessions	Engage in Real-Time, interactive group workshops guided by experts. Learn and collaborate live in your preferred language and time zone.	Join a live session
On-Demand Learning	Access expert-designed courses anytime, anywhere. Perfect for independent learners looking to build skills on their schedule.	Start Learning Now
Private Training	Exclusive, tailor-made sessions designed to meet your team's unique goals with expert guidance.	Contact Us for Custom Training



Gain hands-on experience and master real-world workflows through guided, practical training sessions.

Run simulations collaboratively within the 3DEXPERIENCE platform, connecting design, data, and analysis seamlessly.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

The following course is strongly recommended prior to taking this one:

- Getting Started with Physics Simulation

Want to Learn More?

Expand your knowledge by exploring our [course Catalog](#) and browsing learning paths on [Eduspace](#), our dedicated e-learning platform.

Join the Community!

[Join the SIMULIA community](#) to connect, learn, and stay updated.



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