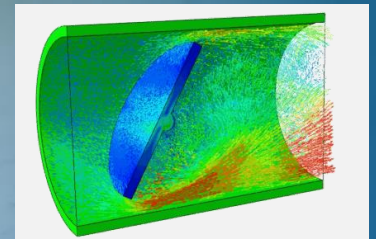


MULTISCALE EXPERIMENT CREATION ESSENTIALS

SIMULIA COURSE DESCRIPTION



Level: Fundamental
Products: 3DEXPERIENCE
Disciplines: Structures

Audience
This course is intended for the following role:
· Multidiscipline Performance Engineer

Why take this course?

This course is an introduction to performing multiscale and multiphysics simulations in the 3DEXPERIENCE platform. Multiphysics experiments involve high-precision 3D simulations such as mechanical finite element analyses, computational fluid dynamics (CFD) flow simulations, and electromagnetic simulations. You can combine two different physics domains to create a Co-simulation such as a fluid-structure interaction (FSI) and conjugate heat transfer (CHT) analysis and can also include highly abstracted approximations of real-world physical behavior (logical systems usually packaged in the form of a functional mockup unit or FMU).

What will you learn?

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

- Set up and create models for Co-simulation analysis in the 3DEXPERIENCE platform
- Perform Co-simulation analyses
- Postprocess Co-simulation analyses

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 courses are required prior to taking this one:

- Mechanical Scenario Creation Essentials
- Fluid Dynamics Engineer Essentials

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.



3DEXPERIENCE®

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