

CONNECTOR ELEMENTS AND MECHANISM ANALYSIS WITH ABAQUS

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: Abaqus
Disciplines: Structures

Audience
 This course is recommended for simulation analysts who will model connections of varying complexity between multiple (rigid or flexible) bodies.

Why take this course?

The combination of mechanisms, rigid bodies, and finite elements in Abaqus makes a powerful simulation tool. The mechanism capability expands the ability of Abaqus to model connections among individual bodies in a variety of ways. Connections can be as simple as pins and rigid links or as complicated as nonlinear frictional joints with elasticity and failure. In this course you will explore the variety of connection types available in Abaqus and learn how to define connections that suit your needs.

What will you learn?

The following topics covered in this course:

- Comparison of connectors and MPCs
- Basic connector components
- Assembled kinematic connections
- Local relative displacements and rotations
- Connector elasticity
- Connector friction
- Connector failure
- Stops and locks
- Actuating components of relative motion
- Sensors and actuators
- Output and postprocessing

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.

Apply nonlinear analysis techniques to simulate complex structural and multiphysics problems accurately.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

Introduction to Abaqus or equivalent and experience using Abaqus.

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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