

Learning Module

Flexible Multibody Systems with Abaqus

The goals of this course are to explore the variety of connection types available in Abaqus and to understand how to define connections that suit your needs.

Objectives

Upon Completion Of This Course You Will Be Able To:

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

Knowledge Prerequisites

This course is recommended for engineers with experience using Abaqus.

Brands

Simulia

Available Releases

SIMULIA 2018, SIMULIA 2017, SIMULIA 2016, SIMULIA V6.14, SIMULIA V6.13, SIMULIA V6.12

Duration

16 hours

Discipline

Advanced Abaqus

Language(s) for selected release

English

Contents

Overview: Connector Elements and Mechanism Analysis with Abaqus

- 1 - Mechanisms and Multibodies in Abaqus
- 2 - Connection Elements and Library (Part 1)
- 3 - Connection Elements and Library (Part 2)
- 4 - Connector Builder
- 5 - Overconstraints and Connectors
- 6 - Connector Behavior (Part 1)
- 7 - Connector Behavior (Part 2)
- 8 - Rotational Connectors
- 9 - Connector Actuation
- A1 - Some Advanced Connection Types
- A2 - Connector Uniaxial Behavior