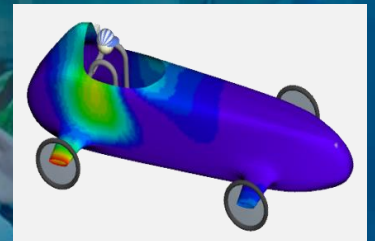


SIMPACK FLEXIBLE BODIES

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: Simpack
Disciplines: Motion & Multibody System

Audience
 Simulation Analysts

Why take this course?

This course is about structural flexibility in Simpack. It explains how to import linear finite element (FE) models into Simpack and how to model linear and nonlinear beam structures directly in Simpack.

What will you learn?

Upon completion of this course you will be able to:

- Prepare FE models for use inside Simpack (as an Abaqus substructure)
- Integrate finite element models into the Simpack environment
- Define appropriate interface connections to the

Simpack model

- Define appropriate mode selection inside the Simpack environment
- Perform Simpack analysis
- Perform postprocessing of flexible body results

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.

Model and analyze the dynamic behavior of multibody systems for accurate motion and vibration predictions.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

This course is recommended for engineers with experience using a finite element program and Simpack.

Agenda for Virtual Live Sessions

Participate in hands-on, real-time workshops where you'll gain practical expertise. Here's what you'll cover:

[Join an Instructor Led Session](#)

Day 1

Lesson 1: Introduction
Workshop 1: Reciprocating Engine
Lesson 2: Placement of Flexible Bodies and Markers
Workshop 2: See-Saw
Lesson 3: Mode Selection
Workshop 3: Mode Selection
Lesson 4: Finite Element Model Preparation
Workshop 4: Flexible Body Assembly

Day 2

Lesson 5: Stress Recovery
Workshop 5: Postprocessing
Lesson 6: Linear SIMBEAM
Workshop 6: Linear SIMBEAM
Lesson 7: Nonlinear SIMBEAM
Workshop 7: Nonlinear SIMBEAM
Lesson 8: Transient Distributed Loads
Workshop 8: Piston-Liner Contact with Residual Modes

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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