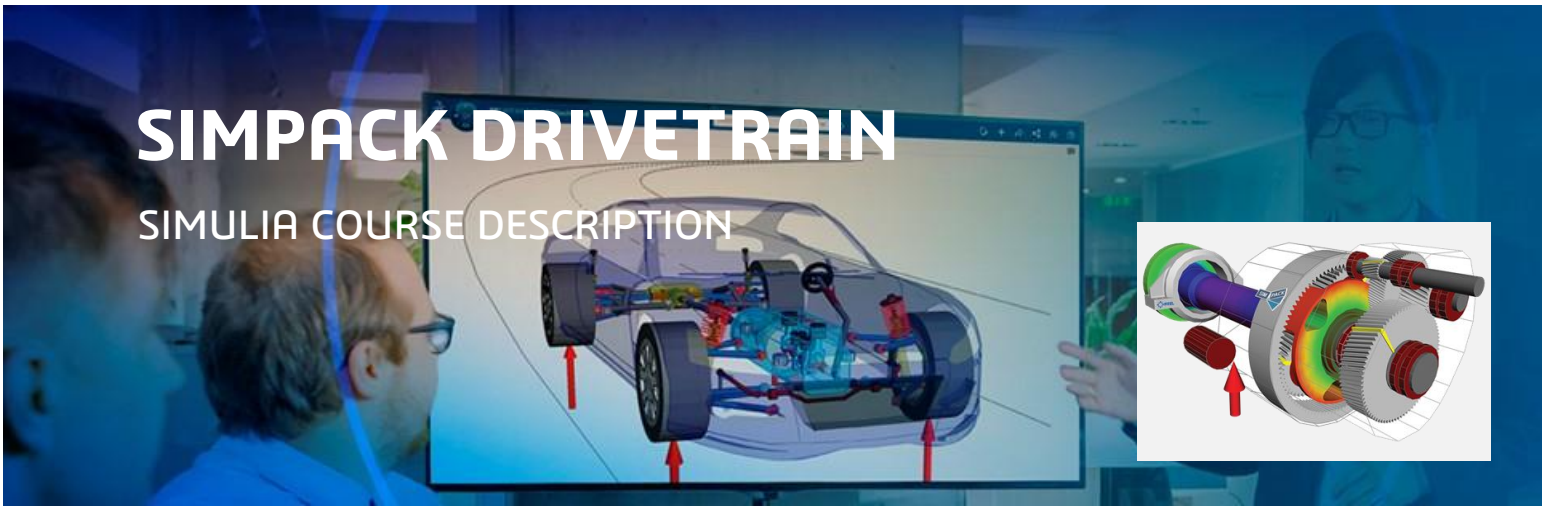
SIMPACK DRIVETRAIN

SIMULIA COURSE DESCRIPTION



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

Audience
Simpack users planning to build up and analyze drivetrain models in Simpack

Why take this course?

The drivetrain training gives an overview of Simpack modeling elements and analysis methods available for drivetrain applications.

What will you learn?

Upon completion of this course you will be able to execute drivetrain applications including:

- Joints and Constraints
- Bushing and bearing elements
- Gear pair Force Elements with different levels of detail
- Spline coupling
- Drivetrain modeling guidelines and recommendations
- Drivetrain modeling guidelines Linear resonance analysis
- Order analysis
- Operating deflection shapes

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

Introduction to Simpack training course successfully completed

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: Drivetrain Overview and Basic Elements
Workshop 1: Shaft Joint
Workshop 2: Bushings and Bearings
Lesson 2: Gearbox Elements
Workshop 3: Elastic Torque Converters
Workshop 4: Gear Pair
Lesson 3: Drivetrain Modeling Guidelines
Lesson 4: Analyses and Simulation Scenarios
Workshop 5: Order Analysis
Workshop 6: Operating Deflection Shapes
Workshop 7: Linear Resonance Analysis

Additional Material

Appendix 1: General Modeling Guidelines

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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Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes
17F, Foxconn Building,
No. 1366, Lujiazui Ring Road
Pilot Free Trade Zone, Shanghai 200120
China

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

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