

MOTION ANALYSIS ESSENTIALS

SIMULIA COURSE DESCRIPTION



Level: Fundamental

Products: 3DEXPERIENCE

Disciplines: Motion & Multibody System; Structures

Audience

This course is intended for designers and engineers who want to perform kinematic and dynamic analysis on mechanical systems. It requires the following role:

- Motion Analyst

Why take this course?

This course is an introduction to performing multibody system simulation on the 3DEXPERIENCE platform. The Motion Analysis app enables engineers to perform kinematic and dynamic simulations to predict and optimize the motion behavior of any mechanical system.

What will you learn?

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

- Create mechanisms to understand the motion behavior of a product assembly
- Enhance mechanisms with motion specific-elements

such as contact and springs

- Perform kinematic and dynamic analyses of a mechanism
- Review the results of a simulation

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

- Some familiarity with fundamental multibody concepts
- Completion of the Getting Started with Physics Simulation course

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®

Dassault Systèmes is a catalyst for human progress. Since 1981, the company has pioneered virtual worlds to improve real life for consumers, patients and citizens.

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**Virtual Worlds
for Real Life**

