

TIRE ANALYSIS WITH ABAQUS: FUNDAMENTALS

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: Abaqus
Disciplines: Structures

Audience
 This course is recommended for tire analysts.

Why take this course?

Modern tires are among the most complex structures in production and their complexities span a broad range of the capabilities available in Abaqus. Since tire modeling is a specialized field, this course covers the many important yet basic capabilities in Abaqus that are specifically relevant to tire modeling.

What will you learn?

In this course you will learn about:

- Choosing appropriate elements
- Methods of modeling reinforcement
- Contact modeling details pertinent to tire modeling
- Fundamentals of material modeling-stress and strain

measures, material directions

- Linear elasticity, hyperelasticity and viscoelasticity
- Efficient axisymmetric to three-dimensional model generation and results transfer

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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