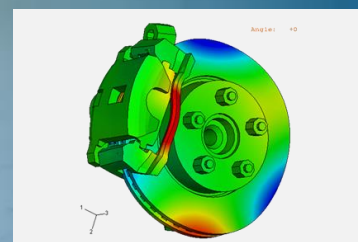


AUTOMOTIVE NVH WITH ABAQUS

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: Abaqus
Disciplines: Structures

Audience
 This course is recommended for simulation analysts who will perform analyses related to automotive NVH.

Why take this course?

Vehicle NVH (Noise, Vibration and Harshness) is typically perceived as a reflection of vehicle quality. As a result, the primary goal of NVH design is to optimize the energy absorption of the vehicle. Large-scale linear dynamics is typically employed in NVH analysis. This course focuses on applying the linear dynamics capabilities in Abaqus to NVH-related simulation. Additional appendix material is included to provide guidance for users translating Nastran models to Abaqus.

What will you learn?

Upon completion of this course you will be able to:

- Perform natural frequency extractions
- Perform sound radiation analyses (acoustics)
- Include nonlinear preloading effects in your NVH simulations
- Perform brake squeal analyses

- Create constraints and connections for Automotive NVH models
- Use substructuring techniques to run your NVH simulations more efficiently
- Perform advanced NVH postprocessing (via Plug-ins)

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

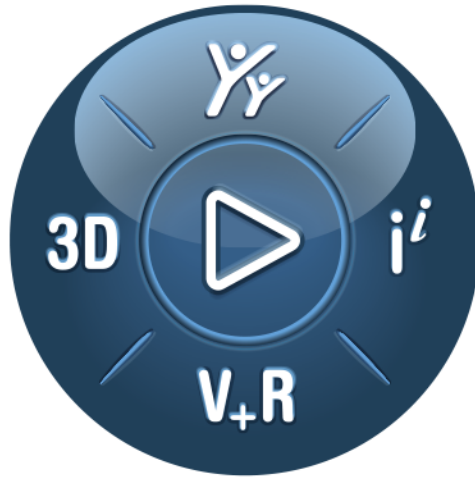
Introduction to Abaqus or equivalent and experience using Abaqus. Linear Dynamics with Abaqus is also recommended but not required.

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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