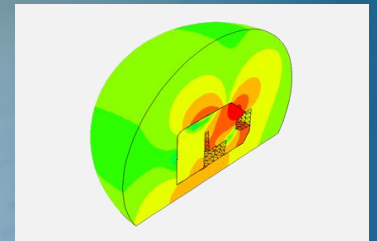


# STRUCTURAL-ACOUSTIC ANALYSIS WITH ABAQUS

## SIMULIA COURSE DESCRIPTION



**Level:** Advanced  
**Products:** Abaqus  
**Disciplines:** Structures

**Audience**  
 This course is recommended for simulation analysts who will perform acoustic and structural-acoustic analysis.

### Why take this course?

Abaqus includes a number of capabilities in the area of structural-acoustic analysis. In addition to pure acoustic analysis features, Abaqus includes the capability to couple nonlinear structural analyses with linear acoustic analyses using several different methods. This seminar covers the fundamentals of acoustics phenomena and then shows how to use Abaqus to solve a wide range of acoustics problems.

### What will you learn?

After completing this course you will gain understanding of:

- Basics of acoustic phenomena
- Radiation boundary conditions
- Element selection
- Mesh size and mesh density effects for different

analysis procedures

- Pure acoustics analysis
- Coupled structural-acoustic analysis
- Scattering and shock analysis
- Analysis procedures available for acoustic analysis
- Output and postprocessing

### Explore Your Learning Options

|                           |                                                                                                                                          |                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Live Sessions</b>      | Engage in Real-Time, interactive group workshops guided by experts. Learn and collaborate live in your preferred language and time zone. | <a href="#">Join a live session</a>            |
| <b>On-Demand Learning</b> | Access expert-designed courses anytime, anywhere. Perfect for independent learners looking to build skills on their schedule.            | <a href="#">Start Learning Now</a>             |
| <b>Private Training</b>   | Exclusive, tailor-made sessions designed to meet your team's unique goals with expert guidance.                                          | <a href="#">Contact Us for Custom Training</a> |



**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. Some understanding of acoustics is helpful 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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