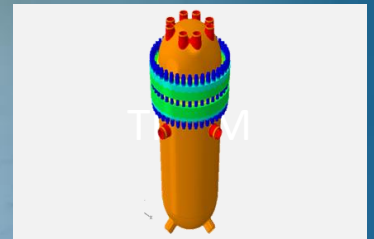


# HEAT TRANSFER AND THERMAL-STRESS ANALYSIS WITH ABAQUS

## SIMULIA COURSE DESCRIPTION



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

**Audience**  
 This course is recommended for simulation analysts whose work involves assessing the thermal response of structures and/or the thermal influence on mechanical response.

### Why take this course?

The success of many structural designs requires a thorough understanding of both the thermal and mechanical response of the design. Temperature-dependent material properties, thermally-induced deformation, and temperature variations all may be important design considerations. This course introduces you to the heat transfer and Thermal-Stress capabilities available within Abaqus. Practical examples and workshops are used to illustrate these capabilities.

### What will you learn?

Upon completion of this course you will be able to:

- Perform steady-state and transient heat transfer simulations
- Solve cavity radiation problems
- Model latent heat effects
- Perform sequentially-coupled, fully-coupled and adiabatic Thermal-Stress analyses
- Model contact in heat transfer problems

### 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.

**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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