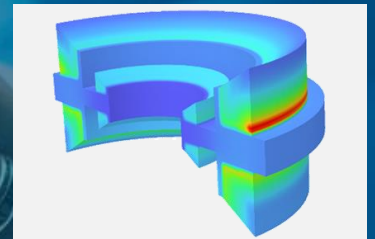


# SUPERCONDUCTING QUENCH ANALYSIS WITH OPERA

## SIMULIA COURSE DESCRIPTION



**Level:** Advanced  
**Products:** Opera  
**Disciplines:** Electromagnetics

**Audience**  
 Electromagnetic Simulation Engineers

### Why take this course?

The SIMULIA Opera Quench solvers are designed specifically for quench modelling of superconducting coils as the coils become resistive. This course will introduce quench and superconductivity technology. The Opera Quench Thermal and Quench Multiphysics solvers, the material data and analysis options will be covered.

### What will you learn?

Upon completion of this course you will be able to:

- Understand the physical requirements to prepare simulations using Opera
- Appreciate the range of superconducting

technologies which can be simulated

- Differentiate between the Quench Thermal and Quench Multiphysics solvers
- Run and postprocess quench analyses with Opera

### 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.**

Simulate electromagnetic and electromechanical systems with precision for low-frequency applications.

– SIMULIA Training Expert Team

#### **What You Need to Know Before Starting**

Before undertaking this course, you should have basic knowledge of superconductivity. The following course is strongly recommended prior to taking this one:

- Introduction to Opera-3d

#### **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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