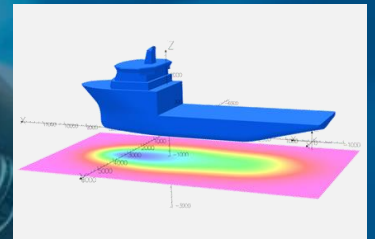


MAGNETIC SIGNATURES WITH OPERA-3D

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: Opera
Disciplines: Electromagnetics

Audience
Electromagnetic Simulation Engineers primarily in ship building and defense industries

Why take this course?

Throughout this course we will teach engineers how to use Opera-3d as a tool to analyze electric and magnetic ship signatures and design coil systems for signature mitigation. The course addresses the topics of induced magnetic signatures, permanent magnetic signatures and cathodic protection which act as main sources of the signatures.

What will you learn?

Upon completion of the course you will be familiar with:

- Induced magnetic signatures
- Static signature due to deflection of the earth's magnetic field by large ferrous objects
- Dynamic (eddy current) signature due to movement of the vessel in the Earth's field
- Permanent magnetic signatures
- Caused by remnant field in the structure
- Cathodic protection systems and resulting electric and magnetic signatures
- Designed to fight corrosion but contribute to the vessel's signature

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.

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

– SIMULIA Training Expert Team

What You Need to Know Before Starting

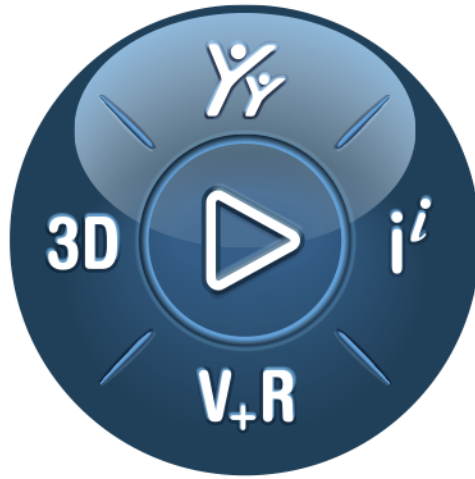
Introduction to Opera-3d course

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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