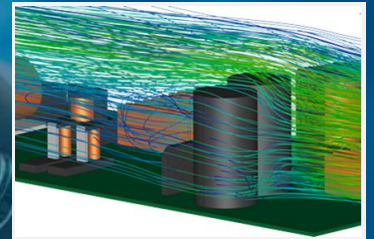


CST STUDIO SUITE - MULTIPHYSICS

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: CST Studio Suite
Disciplines: Electromagnetics

Audience
Recommended for Electromagnetic Simulation Analysts who also need thermal and mechanical analysis as part of their workflow.

Why take this course?

This course describes how to use CST's Multiphysics Studio to perform thermal and mechanical analyses. The course reviews the basic concepts of heat transfer and mechanical behaviors of materials, then explains the sources, boundary conditions, meshing and solver options available in MPS, and illustrates the steps of an EM-Thermal-Mechanical coupled simulation.

What will you learn?

Upon completion of the course you will:

- Understand basic thermal and mechanical theories
- Get an overview of CST's Multiphysics Studio's capabilities
- Understand basic sources, boundary conditions,

meshing options and solver options in CST Multiphysics Studio

- Be able to run an EM-Thermal-Mechanical coupled analysis

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.

Model and analyze electromagnetic behavior for advanced design validation and system optimization.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

Introduction to CST Studio Suite

Agenda for Virtual Live Sessions

Participate in hands-on, real-time workshops where you'll gain practical expertise. Here's what you'll cover:

[Join an Instructor Led Session](#)

Day 1

Lesson 1: Basic Principles and Solver Choices

Lesson 2: The "Classic" Solvers THs and THt

Lesson 3: The Conjugate Heat Transfer Solver

Lesson 4: Thermal Sources, Drains and EM-Thermal Links

Lesson 5: Structure Mechanics Solver

Workshop 1: Predicting Temperature of a Simplified Tablet

Workshop 2: Heating a Moving Metal Rod

Workshop 3: Power Supply Card

Workshop 4: Coupled EM-CHT Simulation

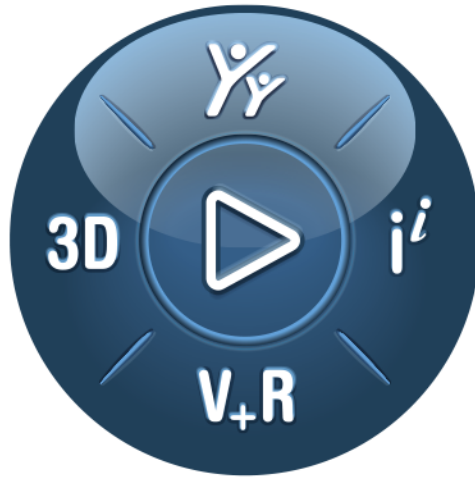
Workshop 5: Coupled Simulation

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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