

INTRODUCTION TO CST STUDIO SUITE

SIMULIA COURSE DESCRIPTION



Level: Fundamental
Products: CST Studio Suite
Disciplines: Electromagnetics

Audience
Electromagnetic Simulation Analysts

Why take this course?

Throughout this course you will become familiar with the CST Studio Suite interface and how to perform basic tasks in terms of modeling, setup of simulation, and analyzing pre and postprocessing results. This course will also briefly discuss the various high frequency solvers available in CST Microwave Studio and provide a behind-the-scenes look at the FIT and FEM algorithms.

What will you learn?

Upon completion of this course you will be able to:

- Navigate the general layout of the CST Studio interface
- Generate CAD geometries within the native modeling interface
- Set up the project environment with the desired units, frequency settings, background materials and boundary conditions
- Understand the various material types that exist and how to define them
- Setup excitations using lumped elements and waveguide ports
- Setup result monitors to obtain 2D/3D field data
- Choose and set up the most appropriate solver and algorithm for high frequency applications.
- Run Time-Domain (FIT) and Frequency-Domain (FEM) simulations including parametric sweeps and optimizations.
- Analyze simulation results such as S-parameters, voltages, currents, 3D nearfields and farfields.
- Extract data from the standard result set through the use of post-processing templates

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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

This course has no prerequisites.

Want to Learn More?

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