



*Hands On, Measurable
Training Programs*

CST Studio Suite – EDA/SI-PI

Course Code	SIM-en-CSTEDA-A-v30R2021
Brand & Release	SIMULIA 2021
Duration	1 day
Level	Advanced
Prerequisites	Introduction to CST Studio Suite

Objectives:

This course covers the fundamentals of how to setup and run an electromagnetic simulation – it will take the viewpoint of how to do this for electronic applications and spend a good amount of time on helpful features and tools that are specific for this area. This course will describe and demonstrate how to use CST for Signal Integrity/high-speed technology.

Class Structure:

Upon completion of this course, you will be able to:

- Perform basic function in terms of modeling, setup of simulation, importing layout boards and analyzing pre- and post-processing results
- Get an overview of suitable solvers for specific SI/PI applications
- Setup and run the solvers and tools for different SI and PI application

Class Lessons:

Lesson 1: Introduction
Lesson 2: Solver Overview
Lesson 3: Circuit Simulation Overview
Lesson 4: EDA Workflow Integration
Lesson 5: Modeling Techniques
Lesson 6: Materials, Ports and Boundaries
Lesson 7: Result Handling and Post Processing
Lesson 8: DC IR Drop/ Power Integrity Solution Overview
Lesson 9: Signal Integrity Overview
Lesson 10: CST MWS Solver Overview

Workshop 1: Circuit Simulation
Workshop 2: EDA Import and Export
Workshop 3: Differential Via Pair (optional)
Workshop 4: Connector
Workshop 5: DC IR Drop/Power Integrity
Workshop 6: Decoupling Capacitor Analysis
Workshop 7: SI TD Analysis
Workshop 8: SI FD Analysis
Workshop 9: SerDes Channel Analysis