CST Studio Suite – Antenna Placement

Course Code	SIM-en-CSTAPL-A-v30R2022
Brand & Release	SIMULIA 2022
Duration	1 day
Level	Advanced
Prerequisites	Introduction to CST Studio Suite and CST Studio Suite – Microwave and Antenna

Objectives:

Throughout this course, you will become familiar with topics like antenna placement, antenna-to-antenna coupling, antenna matching network and radiation hazard. Particular attention is given to the generation and usage of near/far-field sources in the context of the Hybrid Solver Task.

Class Structure:

Upon completion of this course you will be able to:
- Handle imported CAD models
- Choose which High Frequency solver is most suited for antenna placement task of interest
- Design simple matching network
- Use Hybrid Solver to simulate antenna installed performance and antenna to antenna coupling

The course is intended for the following Roles:
- Electromagnetic Simulation Analysts, Antenna Designers

Class Lessons:

Lesson 1: Introduction to Antenna Placement
Lesson 2: Solver Overview
Lesson 3: CAD Import
Lesson 4: Surface Mesh
Lesson 5: System Assembly and Modeling
Lesson 6: Hybrid Simulation
Lesson 7: W1 – Antennas Installed on a Glider
Lesson 8: W2 – Antennas Installed on a Ship
Lesson 9: W3 – Antenna and Radome Simulation