SIEMENS

Course Description

Simcenter Simlab

Thermal Simulations with Simcenter Simlab

Course Code	ILT110077
Software	Simcenter Simlab 2026
User Level	Intermediate
PricingID	Contact Us
List Price	Contact Us Price may not include taxes applicable to your billing region
Live In-Person Duration	0.5 Day
Live Online Duration	4 Hours

This live training teaches users how to set up and analyze heat transfer problems — structural, fluid, and coupled — using solvers Simcenter Optistruct software and Simcenter Acusolve software.

WHO SHOULD ATTEND

This course is designed for users with prior simulation modeling experience who want to expand their knowledge and improve their skills.
Please note that users interested in thermal simulation for electronics components and PCBs should attend a different training course, which will be available soon.

PRIMARY COURSE TOPICS

- Understanding the basic principles of thermal analysis and simulation setup
- Simulating heat dissipation in components like heat sinks
- Analyzing thermal expansion effects and resulting structural displacements
- Setting up airflow simulations in a vehicle cabin, including air conditioning systems
- Using frozen flow solutions, modeling radiation, and solving thermal behavior in complex systems like manifolds
- Mapping pressure and temperature results from CFD to structural models and interpreting advanced outputs such as valve and bore distortion

PREREQUISITES

WEBNA27

ILT110039,ILT110064

PROVIDED COURSE MATERIALS

- Student Guide
- Activity Material

ATTENDANCE REQUIREMENTS

- A computer with internet access and the installation of the latest version of Simcenter Simlab and appropriate license

- General knowledge of Simcenter Simlab recommended