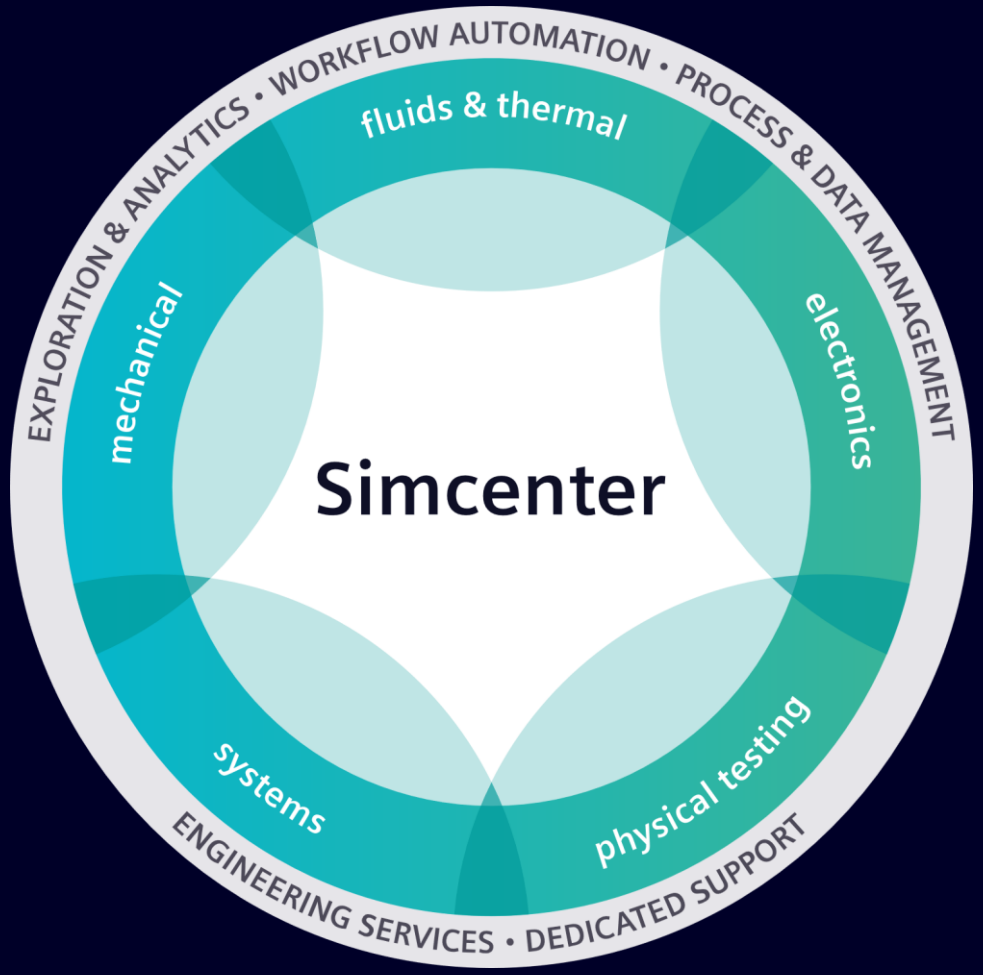
Xcelerator Academy Learning Maps
Your learning: At a Glance



Use our interactive learning maps as a guide to navigate through your content based upon your role then click on the icons throughout to learn more about your delivery options.

Select a role below

LEARN Simcenter STAR-CCM+ FUNDAMENTALS

End user	Teaches the basic skills for a CFD simulation in Simcenter STAR-CCM+.

LEARN PROCESS AUTOMATION

End user	Teaches different techniques to automate processes in Simcenter STAR-CCM+: Templates, tags and filters, design manager or macro scripting.

GET CERTIFIED

Simcenter STAR-CCM+ Associate CFD Analyst Certification	Choose your learning and take your exam to complete the Associate **certification**.

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Simcenter STAR-CCM+→ At a Glance

LEARN THE ESSENTIALS

End user

- Fundamentals in Simcenter STAR-CCM+
- Data analysis in Simcenter STAR-CCM+
- Efficient workflows in Simcenter STAR-CCM+
- Heat transfer

Complete a CFD simulation in Simcenter STAR-CCM+!

Simcenter STAR-CCM+ Certification Exam

Click for detailed certification course list

LEARN TO AUTOMATE PROCESSES

End user

- Process automation using Java scripting
- Design Space Exploration
- Efficient workflows in Simcenter STAR-CCM+

Automate processes in Simcenter STAR-CCM+!

Instructor-led training	On-demand training library	Xcelerator Academy Membership	Learning Journey	Standalone Certification Exam
**Virtual lab environment included in offer		Add-on vLab hours available for purchase	**Virtual lab environment included in offer	

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Instructor-led training | On-demand training library | Xcelerator Academy Membership

**Virtual lab environment included in offer | Add-on vLab hours available for purchase

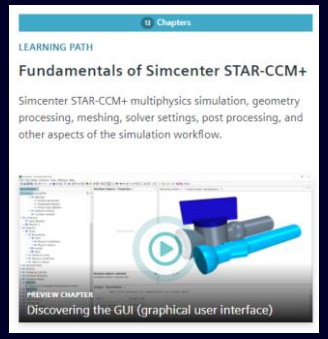
Complete Course List: Simcenter STAR-CCM+ Associate CFD Analyst Certification

Fundamentals in Simcenter STAR-CCM+ + Heat transfer + Data analysis in Simcenter STAR-CCM+ + Efficient workflows in Simcenter STAR-CCM+

or

CFD Analysis: Fundamentals of Simcenter STAR-CCM+

→ Pass the exam → Siemens Xcelerator Academy Certified — Simcenter Star-CCM+Certified Associate 2022



Stepping into the workflow

Workflow details

Preparing imported geometry

Considering the mesh setup

Refining the mesh

Setting up the physics

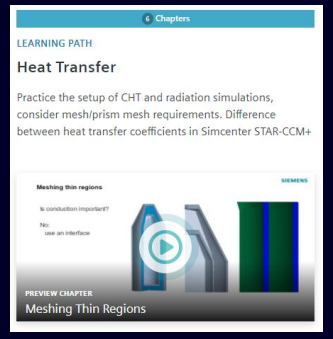
Analyzing data

Advanced analysis

Moving with reference frames

Effective simulations

Planning the simulation workflow effectively



Heat Transfer Introduction

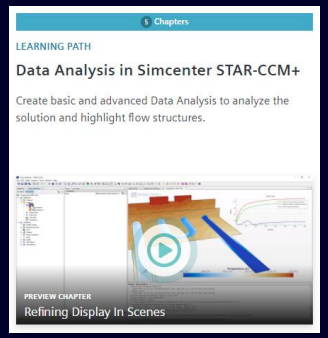
Workflow Heat Transfer

Solar Radiation

Advanced Heat Transfer

Heat Transfer Coefficients

Thermal Radiation



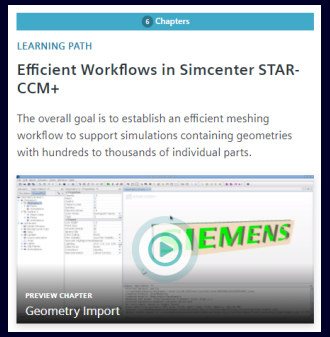
Fundamental plotting

Color and light effects

Volume rendering

Accessing solution data

Playing screens



Preparing the Geometry
Meshing Setup
Physics

Model and Value Definitions

Simulation Setup, Data Analysis and Reporting

Converting a Simulation File into a Template File

Using Simulation Operations

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