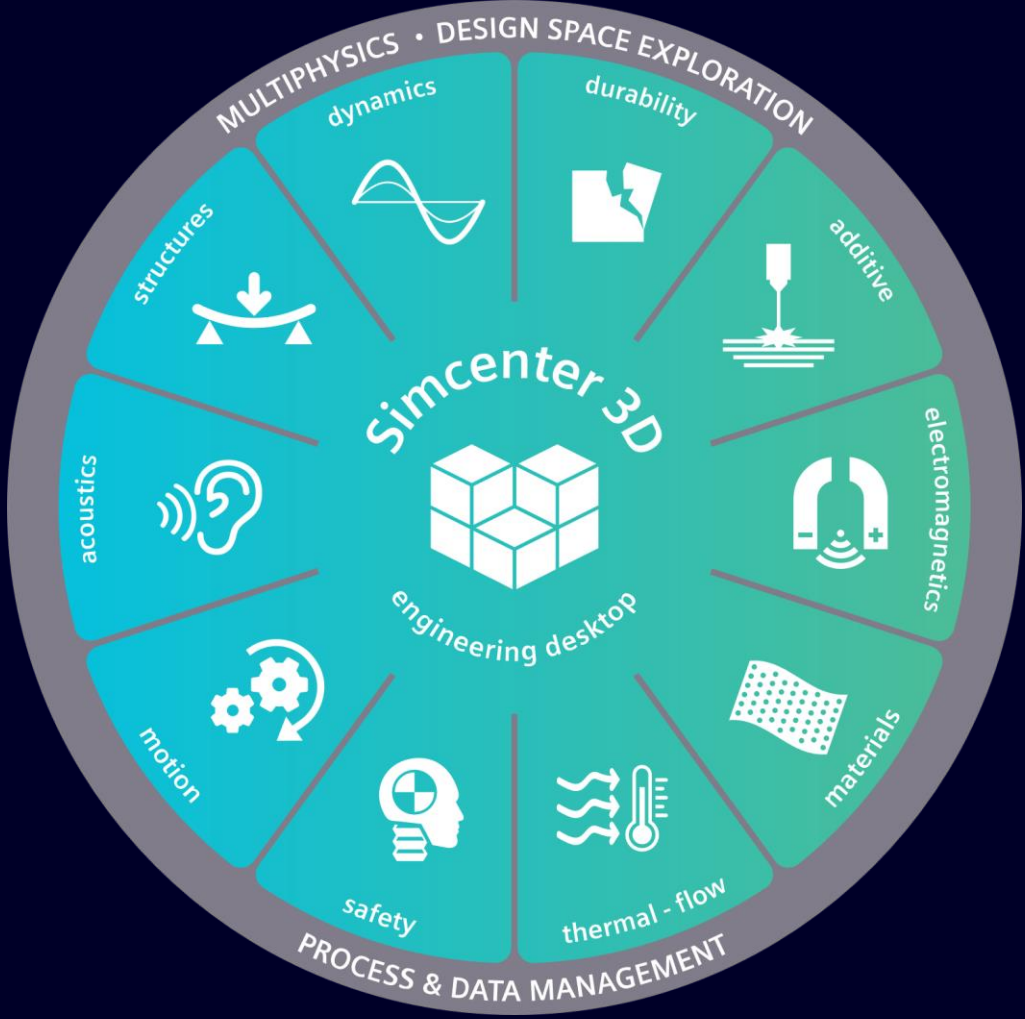# Xcelerator Academy Learning Maps
Your learning: At a Glance

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 THE SIMCENTER 3D PLATFORM

CAE Analyst

Teaches CAE analysts the basics of using Simcenter 3D Pre/Post (Engineering Desktop) to model, perform, and evaluate all their simulations.

LEARN SIMCENTER 3D ACOUSTICS

Acoustics Analyst

Teaches acoustics analysts how to use Simcenter 3D Acoustics to analyze acoustic models to optimize the sound quality of products.

LEARN SIMCENTER 3D MOTION

Motion Analyst

Teaches analysts, engineers, and designers how to use Simcenter 3D Motion to animate and analyze kinematic and dynamic motion mechanisms.

GET CERTIFIED

Simcenter 3D Associate Certification

Choose your learning and take your exam to complete the Associate certification.

SIEMENS

Simcenter 3D → At a Glance

LEARN THE ESSENTIALS

CAE Analyst

Simcenter 3D Pre/Post

Fundamentals of Using Pre/Post	Preparing the Model for Analysis	Solving the Model	Reviewing Analysis Results

Processes and Solutions

Use Simcenter 3D Platform!

GET CERTIFIED

Simcenter 3D Certification Exam

Siemens Xcelerator Academy Certified

Simcenter 3D Certified Associate 2022

Click for detailed certification course list

LEARN SIMCENTER 3D ACOUSTICS

Acoustics Analyst

Simcenter 3D Acoustics

Working with Acoustics Models	Acoustics Analysis Applications

Optimize sound quality of products!

LEARN SIMCENTER 3D MOTION

Motion Analyst

Motion Fundamentals	Flexible Body Analysis	Discrete Drivetrain	Controls and Mechatronics Co-simulation

Analyze kinematic and dynamic motion mechanisms!

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	

SIEMENS

Complete Course List: Simcenter 3D Associate

Simcenter 3D Pre/Post
or
Simcenter 3D Pre/Post

+ Pre/Post Processes and Solutions → Pass the exam → Siemens Xcelerator Academy Certified — Simcenter 3D Certified Associate 2022

---

5 Chapters	9 Chapters	4 Chapters	6 Chapters	7 Chapters
LEARNING PATH Fundamentals of using Pre/Post	**LEARNING PATH** Preparing the Model for Analysis	**LEARNING PATH** Solving the Model	**LEARNING PATH** Reviewing Analysis Results	**LEARNING PATH** Processes and Solutions
Learn how to analyze a model and work with analysis data in Simcenter 3D.	Learn how to prepare a model for analysis by working with geometry, meshes, connections, assemblies, loads, and boundary conditions.	Learn how to solve a model with the Simcenter Nastran solver using structural analysis types.	Learn how to display analysis results using post views, graphs, and reports.	Learn how to analyze models using specialized Simcenter 3D tools.
PREVIEW CHAPTER What Can You Do with Pre/Post?	**PREVIEW CHAPTER** Loading a Model into Simcenter 3D	**PREVIEW CHAPTER** Using Solutions and Subcases	**PREVIEW CHAPTER** Displaying Results Overview	**PREVIEW CHAPTER** Refining a Mesh with Adaptive Meshing

Analyze a model in Simcenter 3D	Prepare geometry	Set up a structural analysis	Display results	Improve mesh quality
Simcenter 3D files	Mesh a model	Run a structural analysis	Manipulate results data	Run a superelement analysis
Simcenter 3D Pre/Post user interface	Model connections	Run a nonlinear analysis	Graph results	Run a thermal analysis
	Model assemblies		Save and restore views	Optimize model design
	Apply boundary conditions		Generate results	
	Define variable conditions and properties			
	Model symmetry			
	Check the model and resolve problems			

SIEMENS