

Xcelerator Academy Learning Maps

Your learning: At a Glance





Collaboration

Connect people and processes across boundaries

Teamcenter® is the broadest and deepest PLM system available, providing a digital thread that connects people and processes across traditional functional silos.

[Teamcenter Learning →](#)

Bring your software lifecycle under control

Polarion ALM unifies the software development lifecycle with real-time management data, allowing teams to respond faster to new opportunities and demands.

[Polarion Learning →](#)





Xcelerator

design realize optimize

Applications

Low-code app development drives digitalization

The Mendix low-code application development platform helps developers rapidly build, deploy and operate enterprise-grade software applications.

[Mendix Learning](#) →

Coming soon!





Analytics

Connect your enterprise with the IoT

MindSphere® uses IoT solutions to optimize operations, create better products and drive new business models by connecting data from products, plants, and systems.

MindSphere Learning → **Coming soon!**





Operations

Digitalize manufacturing operations management

Opcenter enables the complete digitalization of manufacturing operations providing users end-to-end visibility into design, production and manufacturing.

[Opcenter Learning](#) → **Coming soon!**





Manufacturing

Synchronize engineering, manufacturing and service

Tecnomatix helps transform ideas into products and achieve synchronization between product and manufacturing engineering, production, and service operations.

[Tecnomatix Learning](#) →

Coming soon!

Digitally transform part production

NX for Manufacturing drives efficient end-to-end part manufacturing operations and delivers high-precision parts through digitalization for increased productivity and profitability.

[NX for Manufacturing](#) →





Simulation

A complete digital twin simulation solution

Simcenter™ software combines system simulation, 3D CAE, and test to help you optimize designs and deliver innovations faster and with greater confidence.

[Simcenter Learning](#) →





Electronics

Smarter products, faster

Achieve smarter, more capable products with the help of an industry-leading suite of IC, PCB and electronics design, verification and manufacturing solutions.

[Siemens EDA Learning](#) →

A comprehensive E/E systems development solution

Capital offers capabilities for the design, manufacture, and service of electrical systems and is now expanded to encompass software architectures, network communications, and embedded software development.

[Capital Learning](#) →

Coming soon!





Mechanical

The next generation of mechanical design, simulation, and manufacturing

Siemens NX delivers the next generation of mechanical design, simulation, and manufacturing solutions to help companies develop better products, faster.

[NX Learning](#) →

Enable creative design, fast

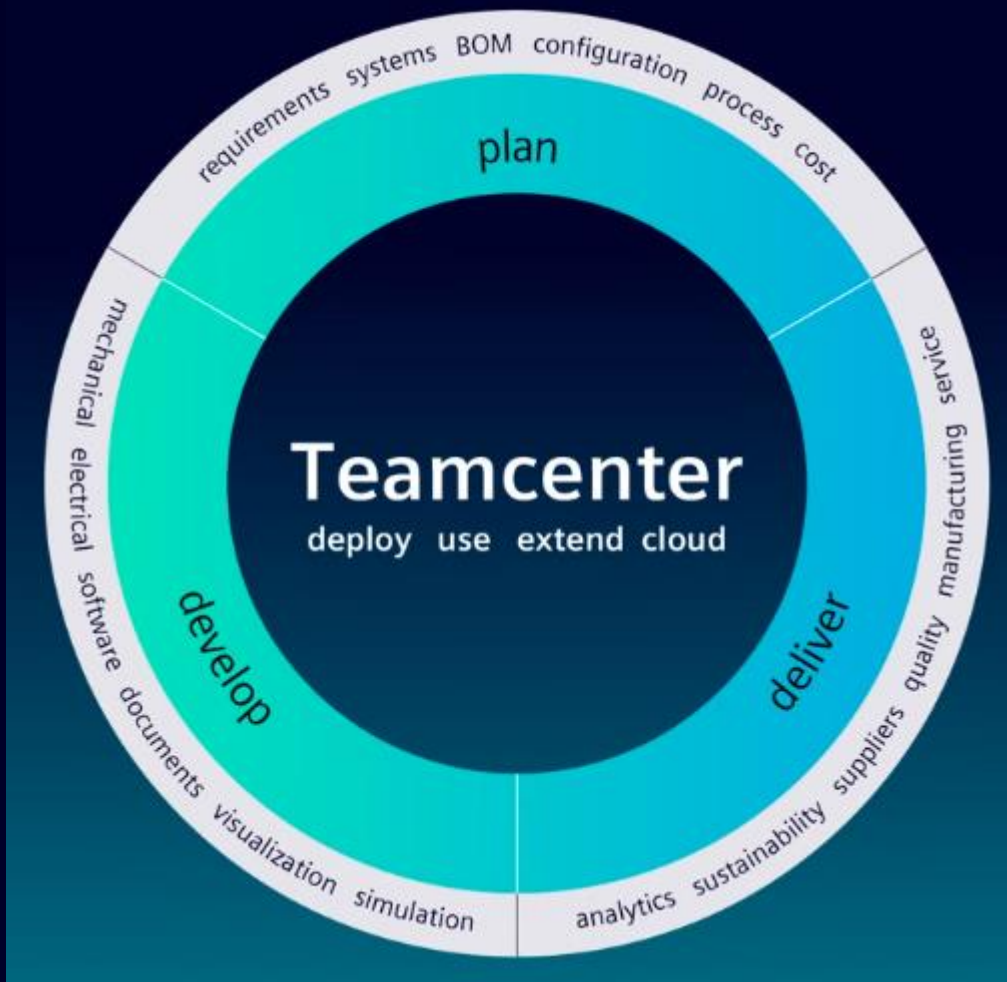
Solid Edge offers fast, flexible tools in an affordable and easy-to-use package, allowing companies of all sizes to digitalize product development.

[Solid Edge Learning](#) → **Coming soon!**



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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 PLATFORM

Team Members

Learn the fundamentals of using the Teamcenter PLM Foundation Platform

INSTALL, CUSTOMIZE, OR ADMINISTER TEAMCENTER

Installers, Customizers or Administrators

Learn how to install the Teamcenter Database, Server, and Rich Client / Active Workspace, customize Teamcenter to meet business requirements or Administer Teamcenter data and processes

GET CERTIFIED

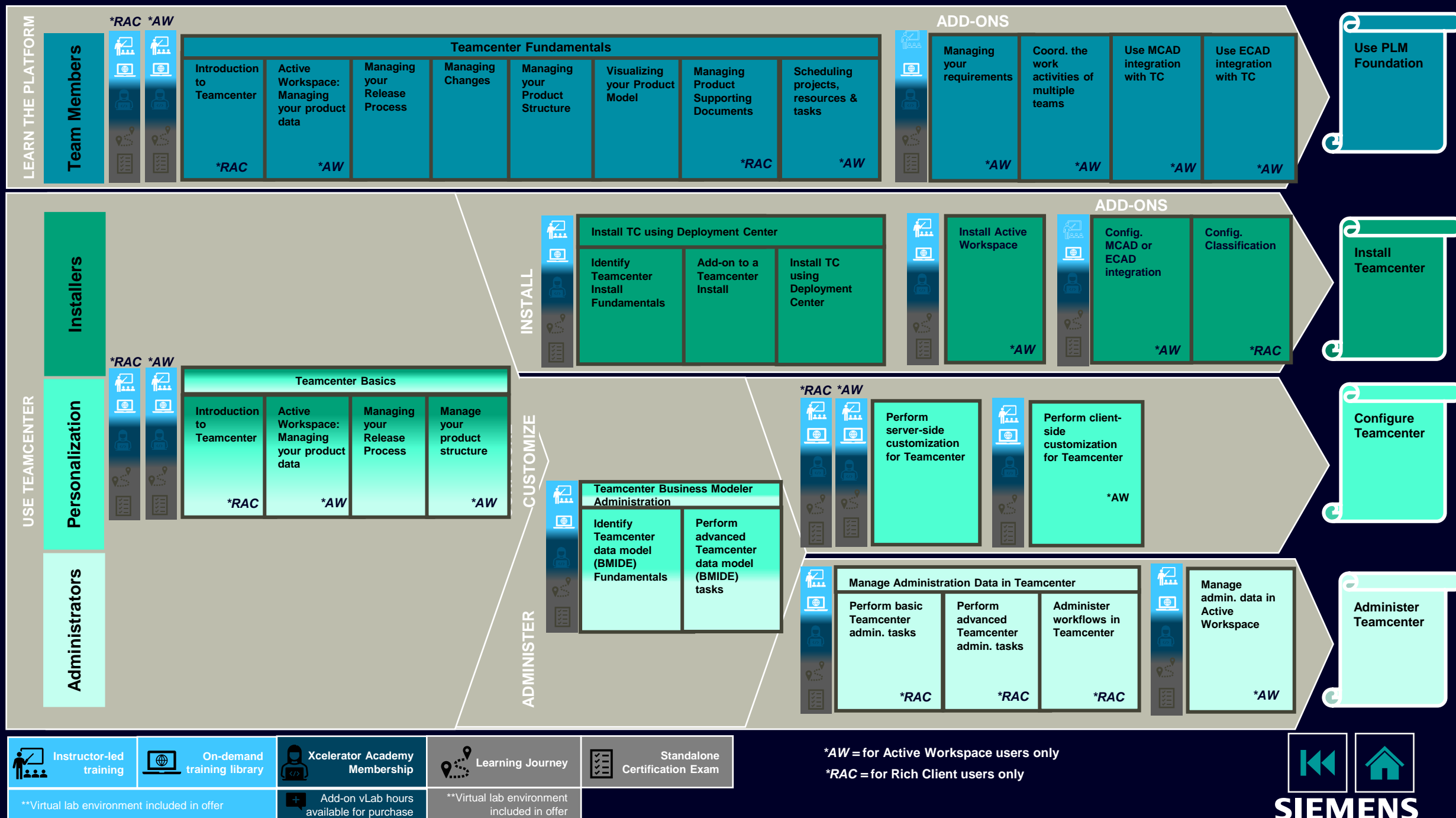
Become a Teamcenter Associate

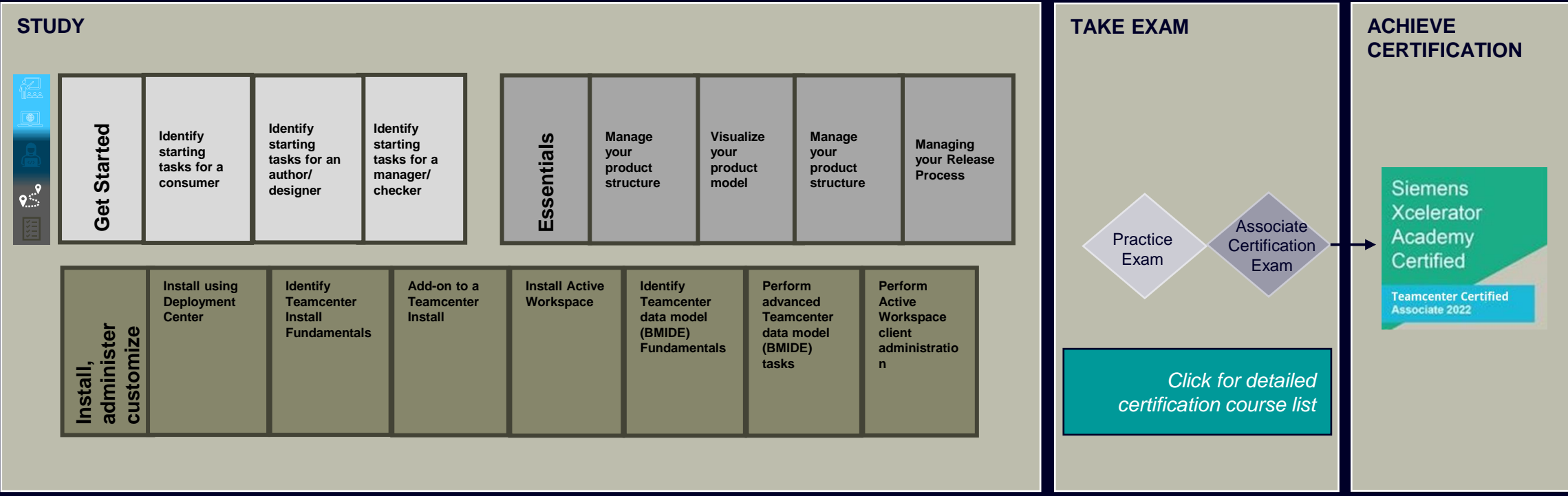
Learn features of Teamcenter / Teamcenter X to prepare for associate consultant certification.



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Teamcenter Learning → At a Glance





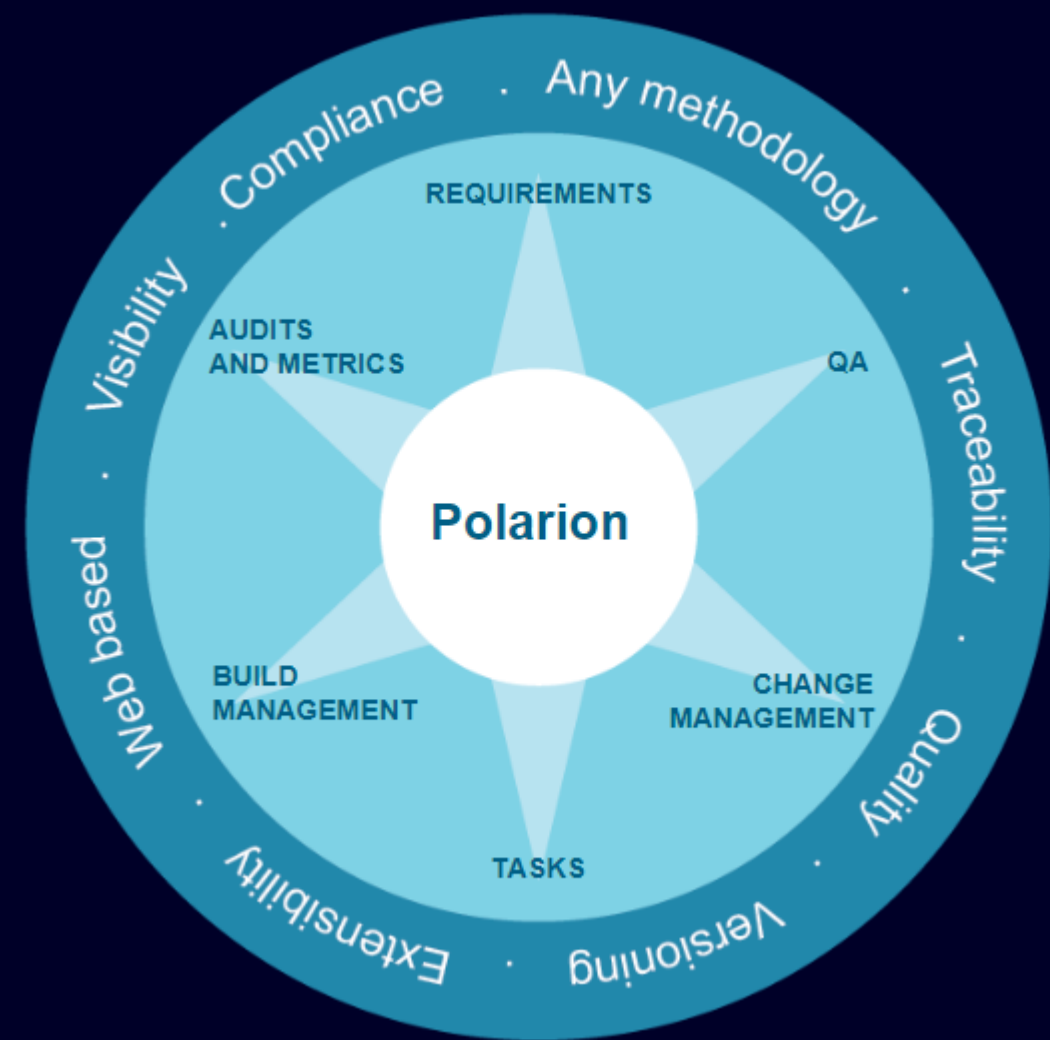
<div>Instructor-led training</div>	<div>On-demand training library</div>	<div>Xcelerator Academy Membership</div>	<div>Learning Journey</div>	<div>Standalone Certification Exam</div>
**Virtual lab environment included in offer		<div>Add-on vLab hours available for purchase</div>	**Virtual lab environment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

Complete Course List: Teamcenter / Teamcenter X Associate

Teamcenter / Teamcenter X Associate														
Getting Started with Teamcenter Active Workspace / Teamcenter X (1 day)			Teamcenter Active Workspace / Teamcenter X Essentials (1 day)				Teamcenter Installation and Configuration (16.5 days)							
Identify starting tasks for a consumer	Identify starting tasks for a manager / checker	Identify starting tasks for an author / designer	Work smarter in Active Workspace	Manage your product structure	Visualize your product model	Manage your release process	Install using Deployment Center	Identify Teamcenter install fundamentals	Add-on to a Teamcenter install	Install Active Workspace	Identify Teamcenter data model (BMIDE)	Perform advanced Teamcenter data model (BMIDE) tasks	Perform Active Workspace client admin 1	Perform Active Workspace client admin 2
Identify basic tasks for a consumer	Identify basic tasks for a manager / checker	Identify basic tasks for an author / designer	Identify additional basic abilities in Active Workspace	Open and view product structures Create and edit product structures	View visualization data	Manage workflow task assignments Preconfigured workflows	Identify & install Deployment Center Manage the Deployment Center Repository Manage Teamcenter environments with Deployment Center Deploy software with Deployment Center	Getting started with Teamcenter Installation Install Teamcenter databases Teamcenter preinstallation tasks Installing the corporate server Install and configure a J2EE 4-tier architecture Install and configure a .NET 4-Tier architecture	Install the Business Modeler IDE (BMIDE) Configure the File Management System (FMS) Install Dispatcher Perform a silent installation Install Teamcenter patches	Identify basic aspects of an Active Workspace installation Install microservices Install Active Workspace server extensions Install the Active Workspace client components Install the indexing components Install the visualization components	Identify Business Modeler IDE (BMIDE) fundamentals Extend the data model Create and manage business objects Manage business object properties	Administer lists of values (LOVs) Administer rule extensions (part 1) Administer rule extensions (part 2) Run BMIDE reports Deploy packages and updates	Identify Teamcenter administration tasks that apply to you Configure tiles in Active Workspace Manage groups, roles, and users in Active Workspace Configure table columns in Active Workspace	Manage style sheets with the XRT Editor Manage preferences in Active Workspace Add BMIDE constraints for Active Workspace
	Approve and release data for a manager / checker	Work with data and relations Import Excel and Word files Get started with BOMs Approve and release data for an author / designer Initiate a workflow for an author / designer Develop and release product designs	Identify additional search techniques to find content	Analyze product structures										

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Select a role below



Requirements Manager (V-model)

Learn to track and manage requirements with Polarion. Master the basic skills to navigate Polarion and work with project data.

Test Manager

Learn to track and manage test cases within Polarion QA. Plan and execute test cases and track defects found during test executions.

Administrator

Learn how to install, configure and administer Polarion.

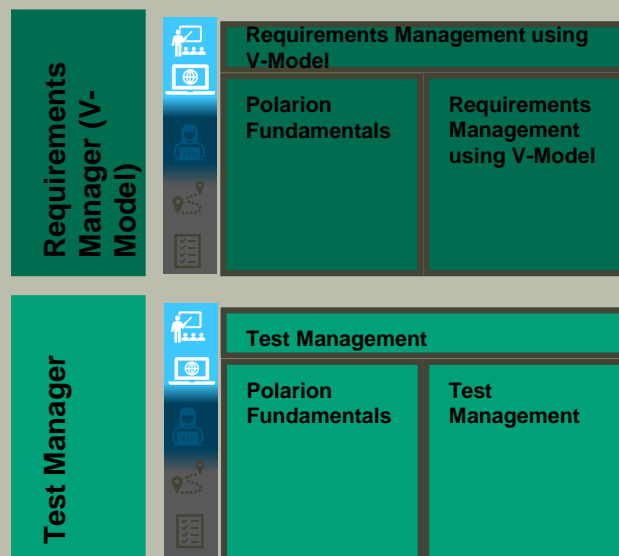
Polarion Associate

Pass the Polarion Associate Exam to become Siemens Xcelerator Academy Certified

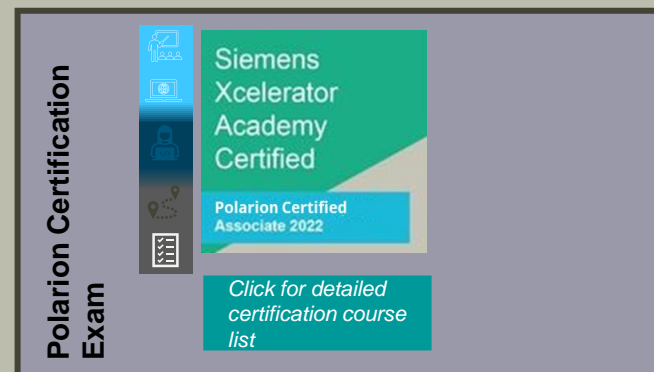


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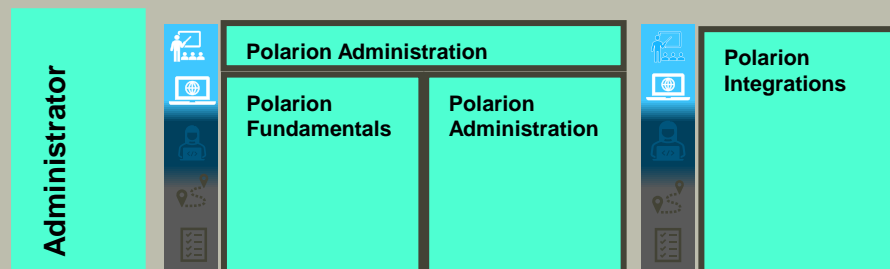
Polarion: Managing and controlling your project data













Polarion: Get Certified



Polarion: Install, configure, administer and integrations



 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	

 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: Polarion Associate Certification

Requirements Management using V-model



Test Management



or

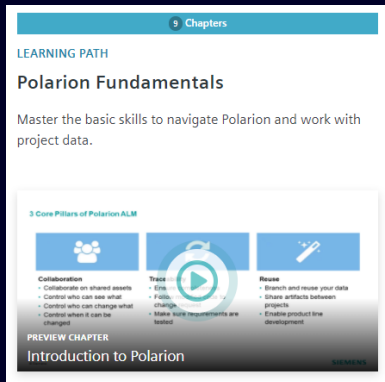
Polarion: Managing and controlling your project data 

Pass the exam



Siemens Xcelerator Academy Certified

Polarion Certified Associate 2022



Navigating the Polarion User Interface

How to use Projects to organize your data

Managing Work Items

Managing your Live Docs

Analyzing your data with Live Reports

Planning and tracking your development activities

Tracking test case execution via Test Runs

Support parallel development activities with Collections



V-model Concepts

Managing System Requirements Specification

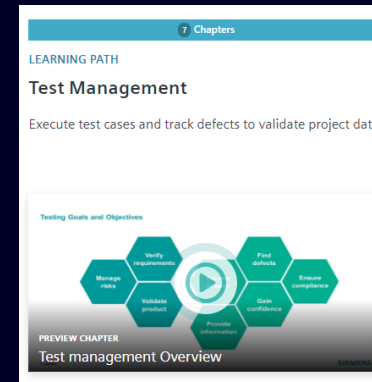
Managing Software Requirements

Managing Risks

Managing Changes

Building Software

Managing Variants



Test Management Concepts

Test Planning

Test Analysis and Design

Test Execution

Test Automation

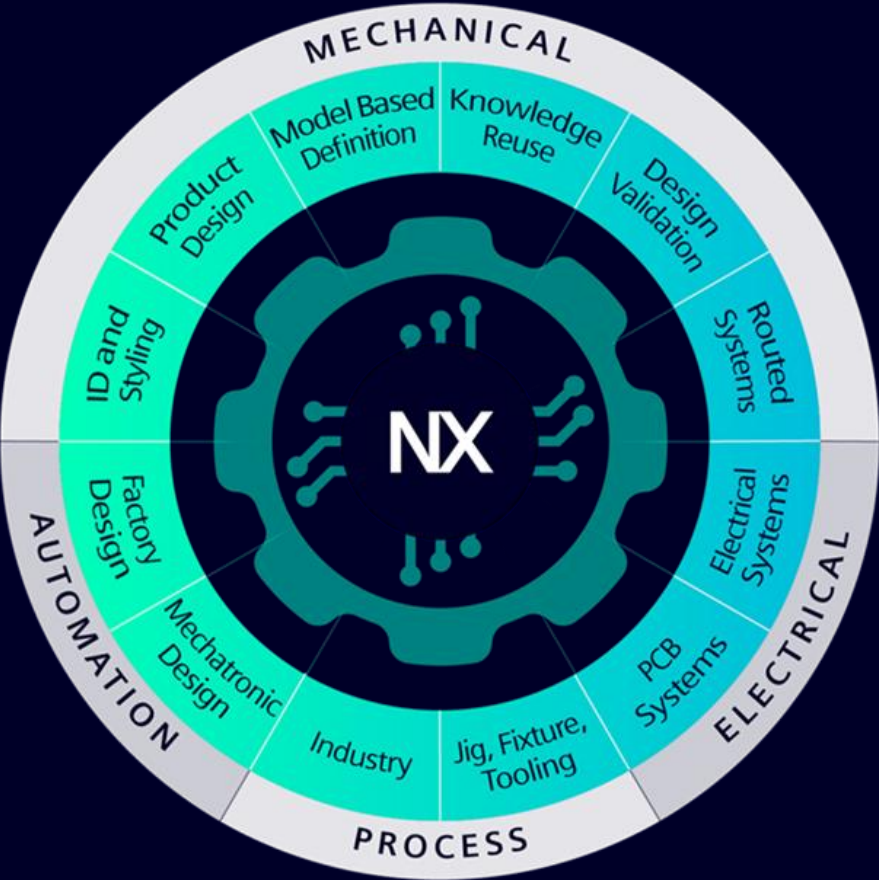
Defect Management



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LEARN THE ESSENTIALS

Core Mechanical Designers

New users are given an overview of NX. Users will be able to open and explore part files. Complete this level by passing the NX Design Associate certification exam.

LEARN PRODUCT DESIGN

Tooling Designers

Provides Mechanical Designers the foundation they need to be successful using NX Design.

LEARN ROUTING AND WIRING DESIGN

Routed systems

Provides Routed Systems Designers the foundation they need to be successful using NX Design.

Wiring designers

Provides Wiring Designers the foundation they need to be successful using NX Design.

LEARN MOLD/DIE DESIGN

Mold / Die Designers

Provides Mold/Die Designers the foundation they need to be successful using NX Design.

GET CERTIFIED

NX Associate Certification

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



SIEMENS

LEARN THE ESSENTIALS

Core Mechanical Designers

Designing Parts in NX

NX Basic Design

Product Design Fundamentals

Intermediate NX Design and Assemblies

Molded & Cast Part Design

Loading and working with assemblies

Design in Context of an assembly

NX Associate Certification Exam

Siemens Xcelerator Academy Certified

NX Design Certified Associate 2022

Click for detailed certification course list

Use NX Design!

LEARN PRODUCT DESIGN

Tooling Designers

Surface Modeling Processes

Documenting with Drafting

Advanced Assemblies

Sheet Metal Design

Model Based Definition using PMI

Design your Product!

LEARN ROUTING AND WIRING DESIGN NX

Routed systems/ Wiring designers

Routing Mechanical

Routing Electrical

Advanced Assemblies

Design Routing and Wiring!

LEARN MOLD/DIE DESIGN

Mold / Die Designers

Mold Wizard Fundamentals

Mold Wizard Advanced

Progressive Die Wizard Fundamentals

Design for Mold/ Die!

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

SIEMENS

Complete Course List: NX Core Associate Certification

Designing Parts in NX 



Intermediate NX Design & Assemblies 

or

NX Essentials 

Pass
the
exam




Siemens
Xcelerator
Academy
Certified

NX Design Certified
Associate 2022

LEARNING PATH 13 Chapters

NX Basic Design

In this learning path, you will explore methods for developing and editing basic solid models, assembly models, and drawings.



PREVIEW CHAPTER
Getting started in NX

NX user interface

Create a basic part

Organize and display part models

Create cylindrical parts using sketches

Add finishing details

Simple changes and part interrogation

Basic part edits using synchronous

Analyze existing assemblies


Bottom-up assembly

Create a basic part drawing

LEARNING PATH 8 Chapters

Product Design Fundamentals

You will learn to determine a modeling strategy, resolve any failures that arise, and use workflows for copying, patterning, and mirroring to complete a model.



PREVIEW CHAPTER
Establish design intent

Establish design intent

Analyze the design and make changes

Create parts with constant wall thickness

Sweep geometry


Building parts with duplicated geometry

Create symmetric models

LEARNING PATH 7 Chapters

Molded & Cast Part Design

In this learning path, you will compare and contrast highly parametric vs. non-parametric modeling techniques.



PREVIEW CHAPTER
Add stiffening ribs to a model

Create molded parts

Build basic parts using surfaces

Build robust models

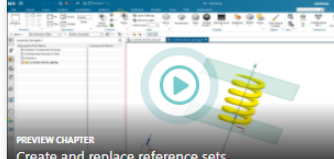
Data translators

Edit non-parametric models

LEARNING PATH 6 Chapters

Loading and working with assemblies

Most products are assemblies of multiple parts. In this learning path, you will learn how to add components to an assembly and edit them to fit properly.



PREVIEW CHAPTER
Create and replace reference sets

Manage assemblies

Configure an assembly


Create reusable components

View component interaction using sequencing

LEARNING PATH 6 Chapters

Design in Context of an Assembly

In this learning path, you will learn to create associative links between parts in the context of an assembly.



PREVIEW CHAPTER
Start a design using the top-down assembly method

Top-down modeling

Link geometry between related parts

Create expression links between parts

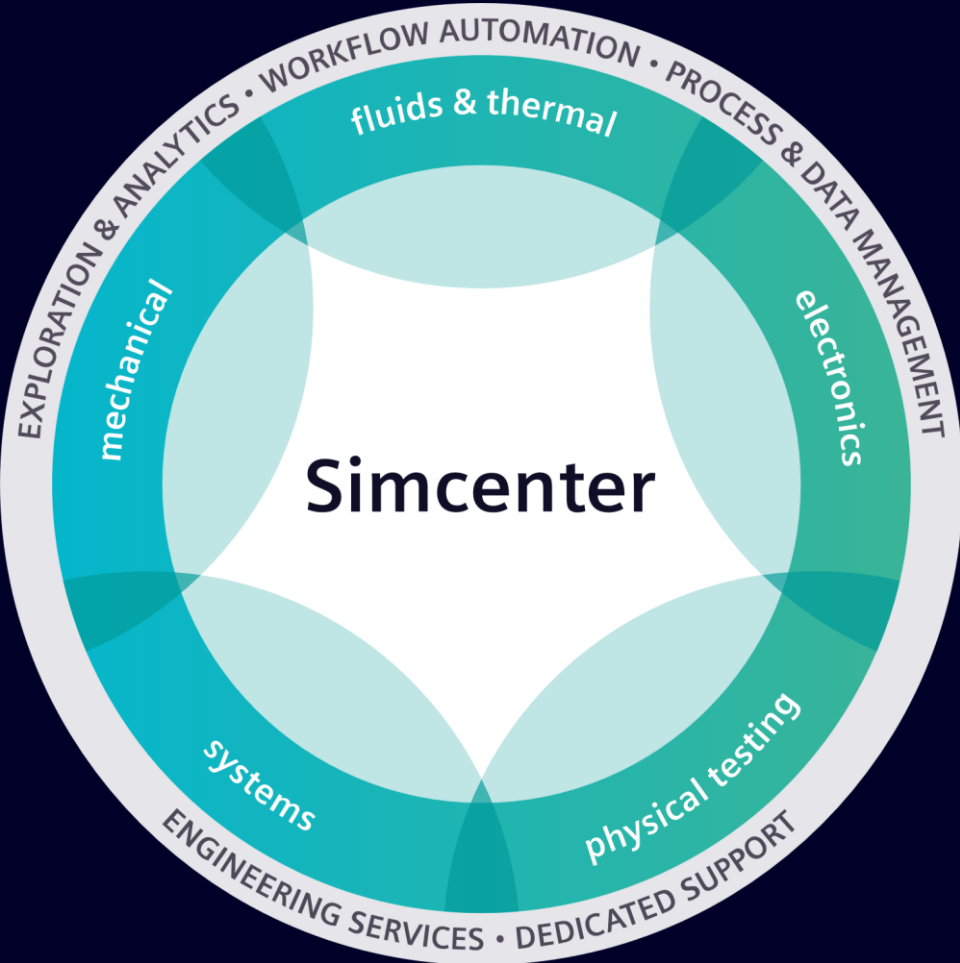
Revise assemblies



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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**.





SIEMENS


LEARN THE ESSENTIALS

End user


**Fundamentals in Simcenter STAR-CCM+**

**Data analysis in Simcenter STAR-CCM+**

**Efficient workflows in Simcenter STAR-CCM+**

**Heat transfer**

Simcenter STAR-CCM+ Certification Exam





Siemens Xcelerator Academy Certified
Simcenter Star-CCM+ Certified Associate 2022
[Click for detailed certification course list](#)


Complete a CFD simulation in Simcenter STAR-CCM+!

LEARN TO AUTOMATE PROCESSES







End user

**Process automation using Java scripting**

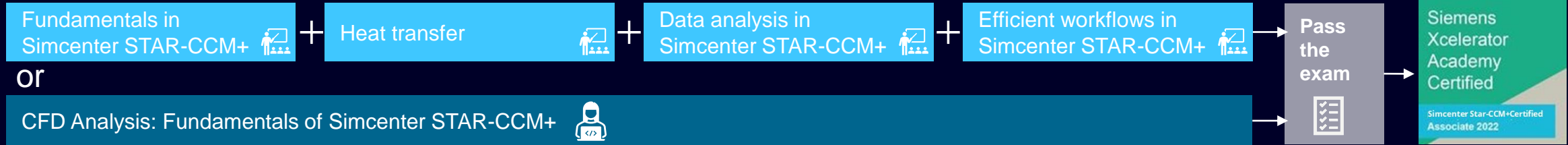
**Design Space Exploration**

**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	

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



Stepping into the workflow

Workflow details

Preparing imported geometry

Considering the mesh setup

Refining the mesh

Setting up the physics

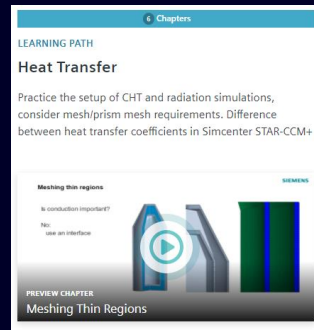
Analyzing data

Advanced analysis

Moving with reference frames

Effective simulations

Planning the simulation workflow effectively



Heat Transfer Introduction

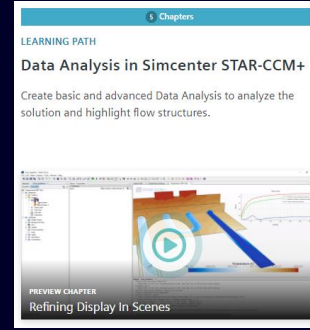
Workflow Heat Transfer

Solar Radiation

Advanced Heat Transfer

Heat Transfer Coefficients

Thermal Radiation



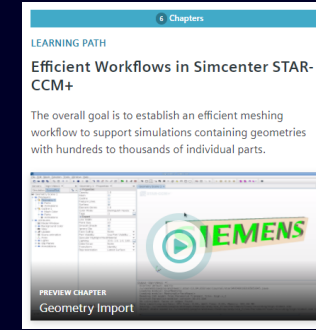
Fundamental plotting

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

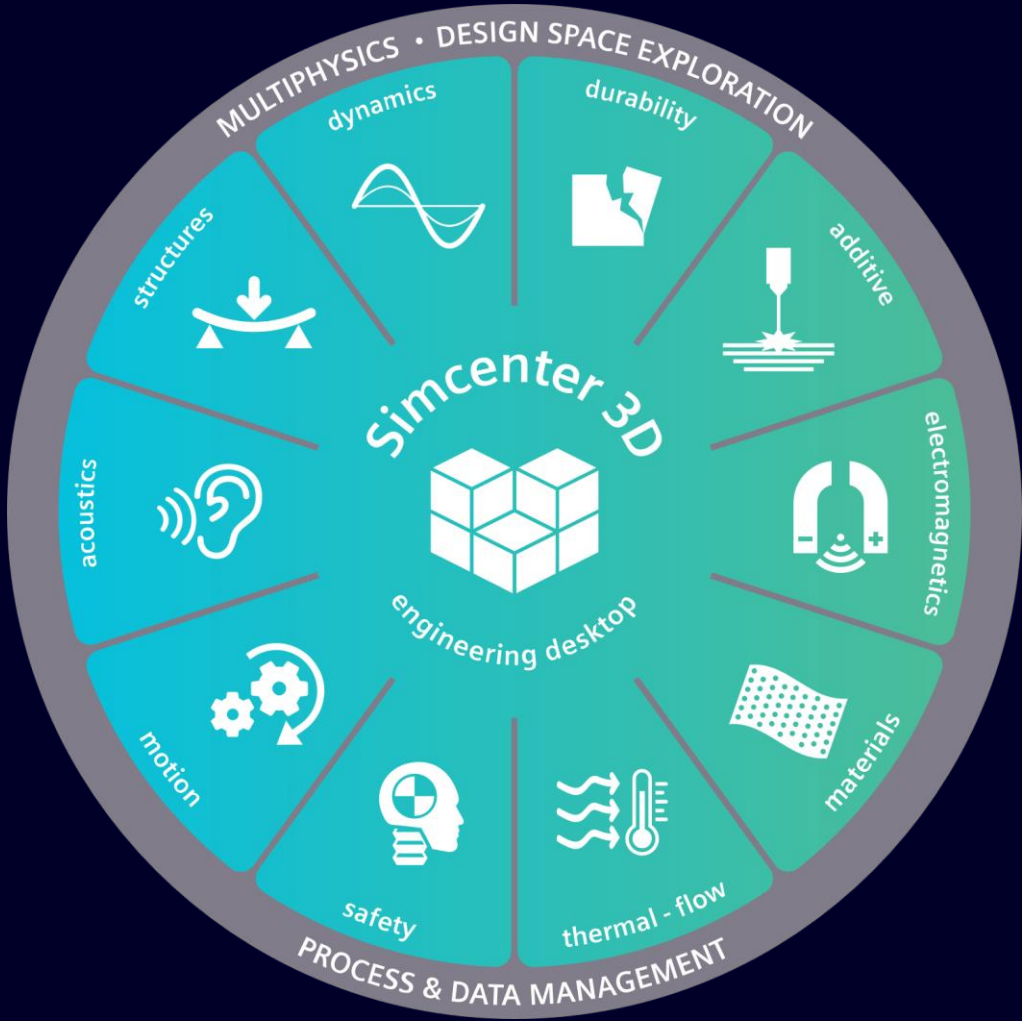
Using Simulation Operations



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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

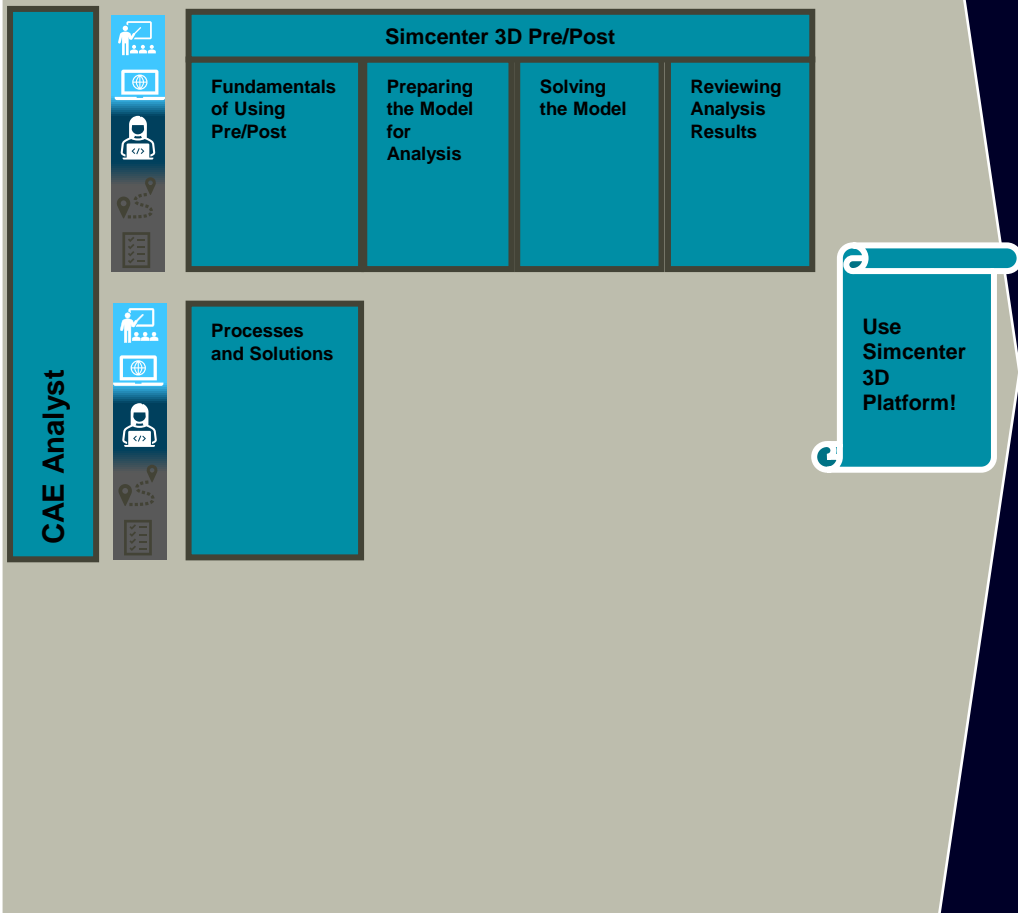
Simcenter 3D Associate Certification

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



SIEMENS

LEARN THE ESSENTIALS



GET CERTIFIED

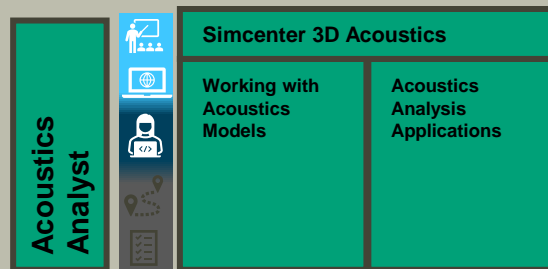
Simcenter 3D Certification Exam

Siemens Xcelerator Academy Certified

Simcenter 3D Certified Associate 2022

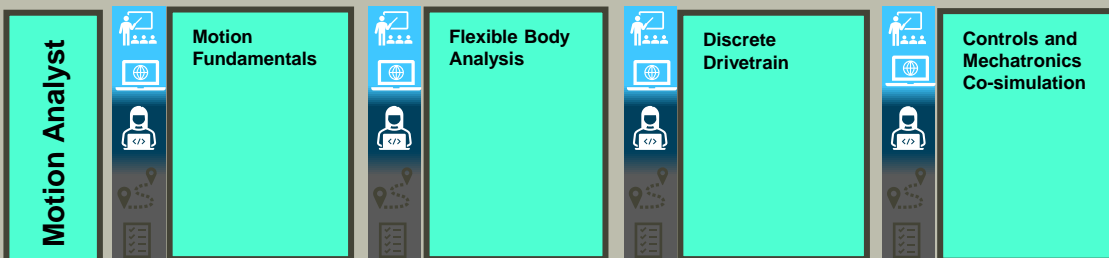
[Click for detailed certification course list](#)

LEARN SIMCENTER 3D ACOUSTICS



Optimize sound quality of products!




LEARN SIMCENTER 3D MOTION





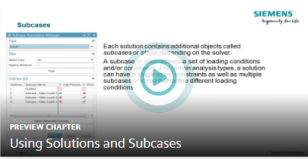

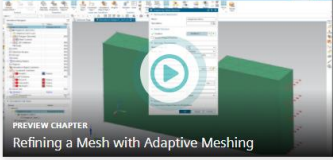
Analyze kinematic and dynamic motion mechanisms!

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	

Complete Course List: Simcenter 3D Associate

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



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