

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 →](#)





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 →](#)





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 →](#)





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 →](#)

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](#) →





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

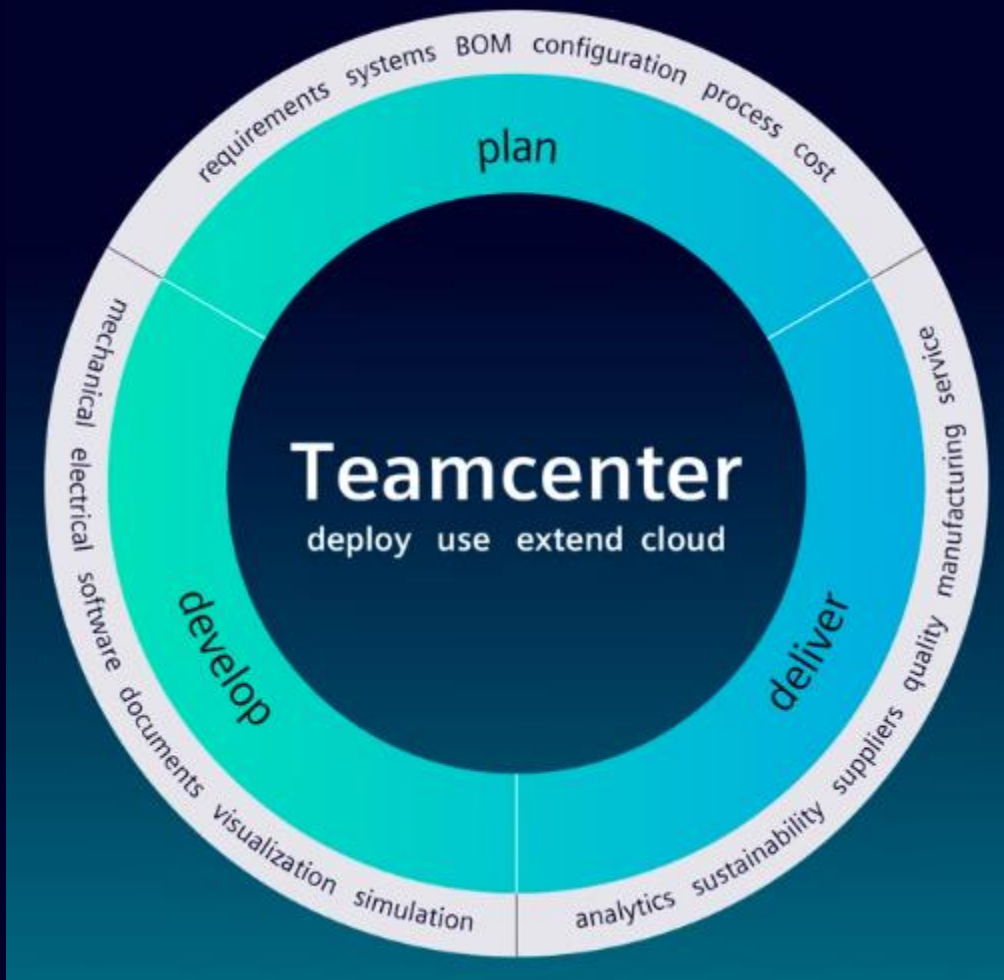
Solid Edge offers fast, flexible tools in an affordable and easy-to-use package, allowing companies of all sizes to digitalize product development.

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



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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 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

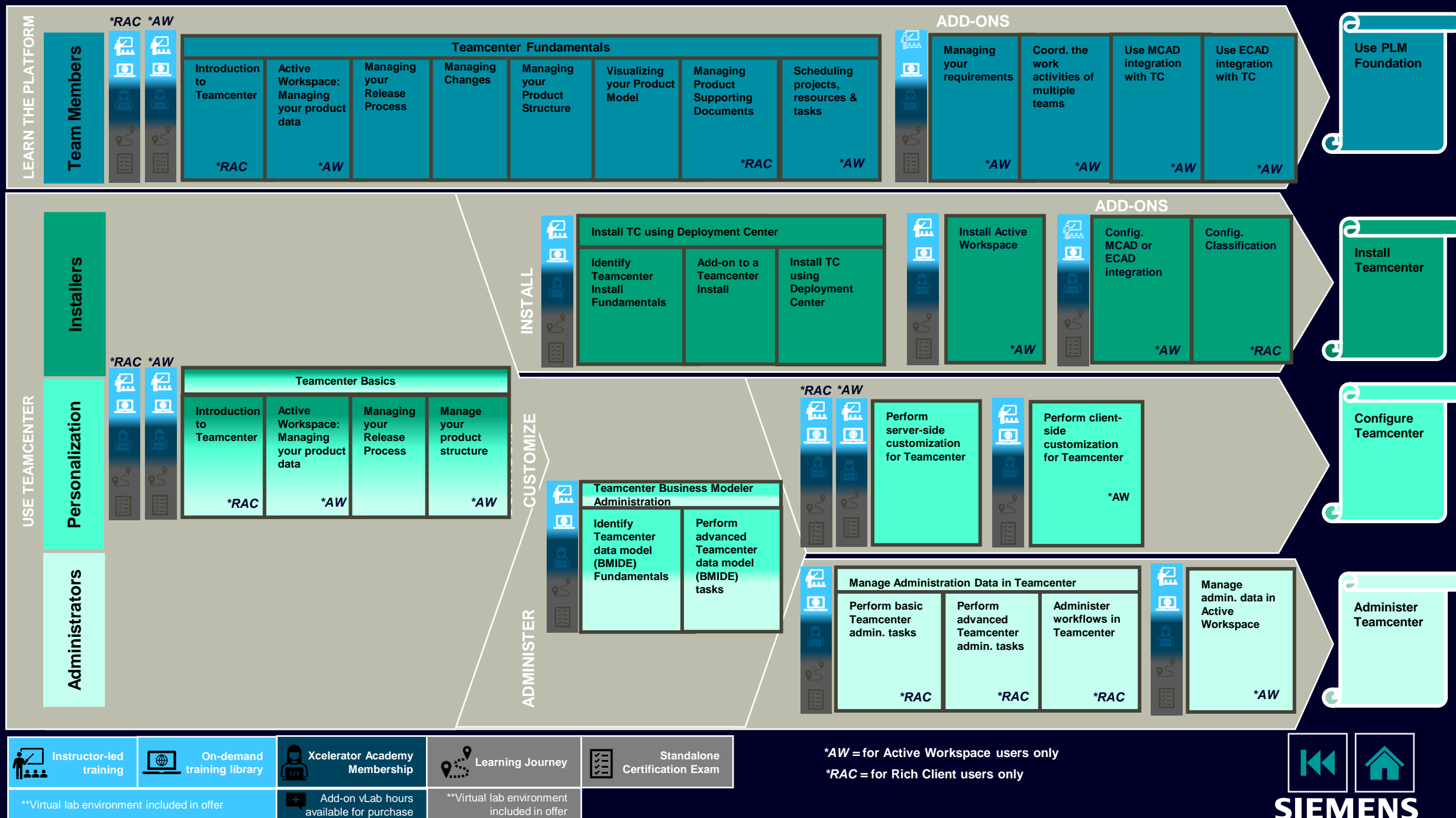
Become a Teamcenter Associate

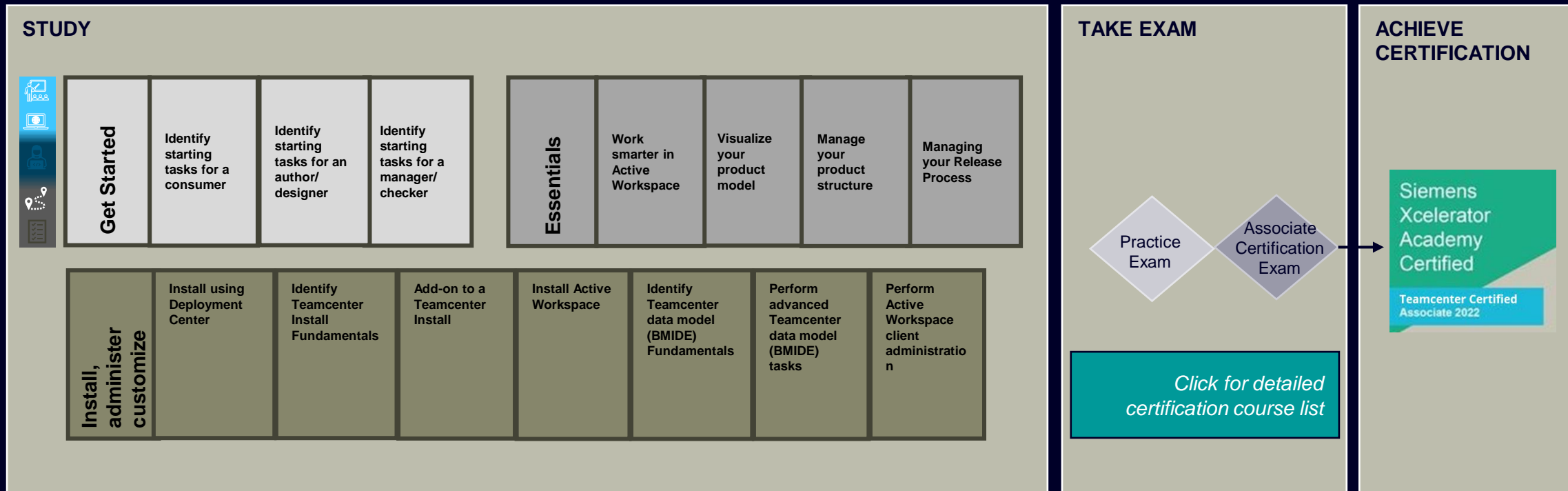
Learn features of Teamcenter / Teamcenter X to prepare for associate consultant certification.



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Teamcenter Learning → At a Glance

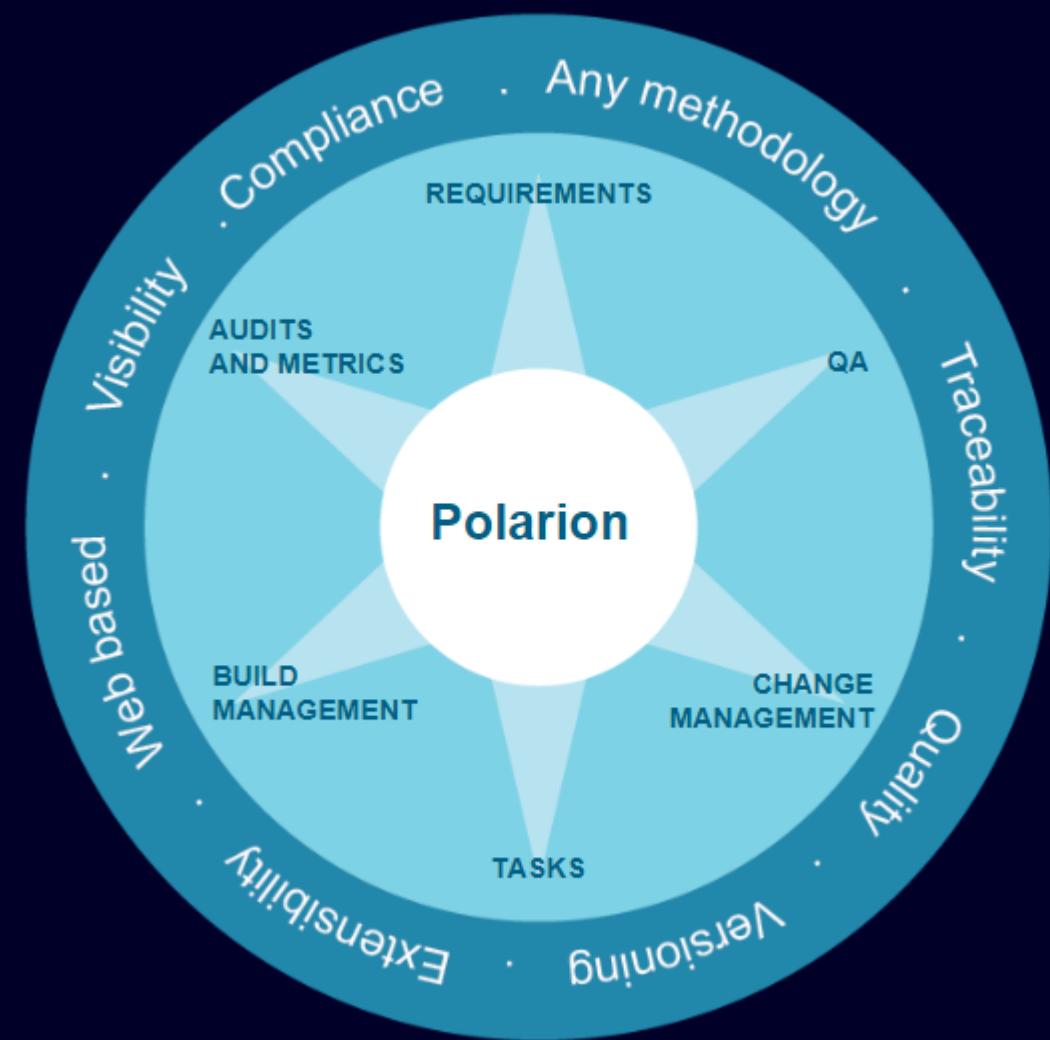




Instructor-led training	On-demand training library	Xcelerator Academy Membership	Learning Journey	Standalone Certification Exam
**Virtual lab environment included in offer		Add-on vLab hours available for purchase	**Virtual lab environment included in offer	

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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.

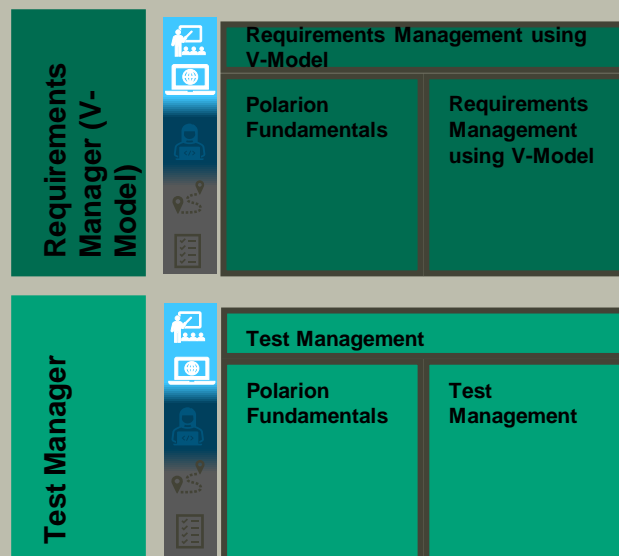
Polarion Associate

Pass the Polarion Associate Exam to become Siemens Xcelerator Academy Certified

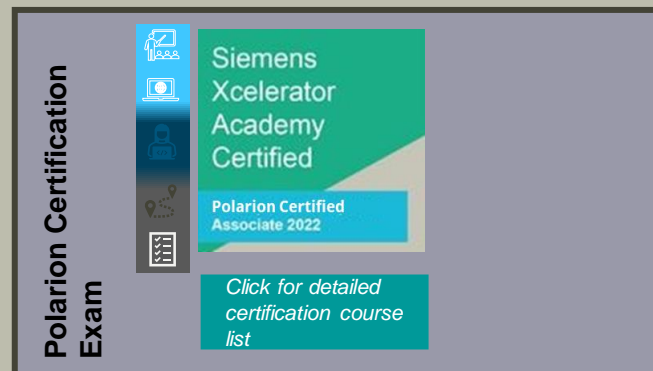


SIEMENS

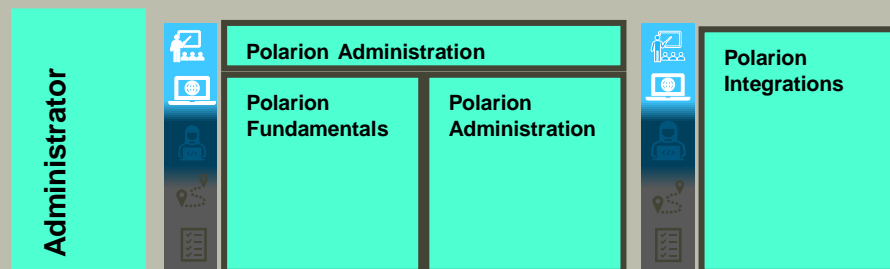
Polarion: Managing and controlling your project data













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

5 Chapters

LEARNING PATH

Polarion Fundamentals

Master the basic skills to navigate Polarion and work with project data.

3 Core Pillars of Polarion ALM

Collaboration

- Collaborate on shared assets
- Control who can see what
- Control who can change what
- Control when it can be changed

Trace

- Link
- Find
- Change

Reuse

- Search and reuse your data
- Share artifacts between projects
- Enable product line development

PREVIEW CHAPTER

Introduction to Polarion

6 Chapters

LEARNING PATH

Requirements Management using V-Model

Define your project requirements, specifications, risks, manage their changes in the context of a V-Model process.

V-Model Process in Software

In software development, the V-Model is an extension to the waterfall model where all the development phases have a corresponding testing phase that can be done in parallel.

PREVIEW CHAPTER

V-Model Process Overview

7 Chapters

LEARNING PATH

Test Management

Execute test cases and track defects to validate project data.

Testing Goals and Objectives

PREVIEW CHAPTER

Test management Overview



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Xcelerator Academy Learning Maps

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Select a role below



LEARN ESSENTIALS

Team Members

Introduces terminologies and concepts essential for the MindSphere journey.

LEARN ABOUT APP DEVELOPMENT

App Developer

Learn how to develop, register, configure, test, run and publish your MindSphere apps.

LEARN ABOUT CONNECTIVITY

Connectivity Developer

Learn how to connect devices to MindSphere

LEARN ABOUT ANALYTICS

Data Analyst

Learn how to explore various means of analyzing data in MindSphere.

GET CERTIFIED

MindSphere Associate Certification

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



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LEARN ESSENTIALS

Team Members

Introducing MindSphere

Exploring Essentials of MindSphere

Overview of MindConnect Elements

Inspecting MindSphere Security

LEARN ABOUT APP DEVELOPMENT

App Developer

Developing MindSphere Applications

Developing MindSphere Apps with Mendix

Creating Advanced MindSphere Apps

LEARN ABOUT CONNECTIVITY

Connectivity Developers

Creating Custom Agents with MindConnect Library

Creating Custom Agents with MindConnect API

MindConnect IoT Extension

Exploring MindConnect Integration

Extending MindConnect Library Custom Agents

LEARN ABOUT ANALYTICS

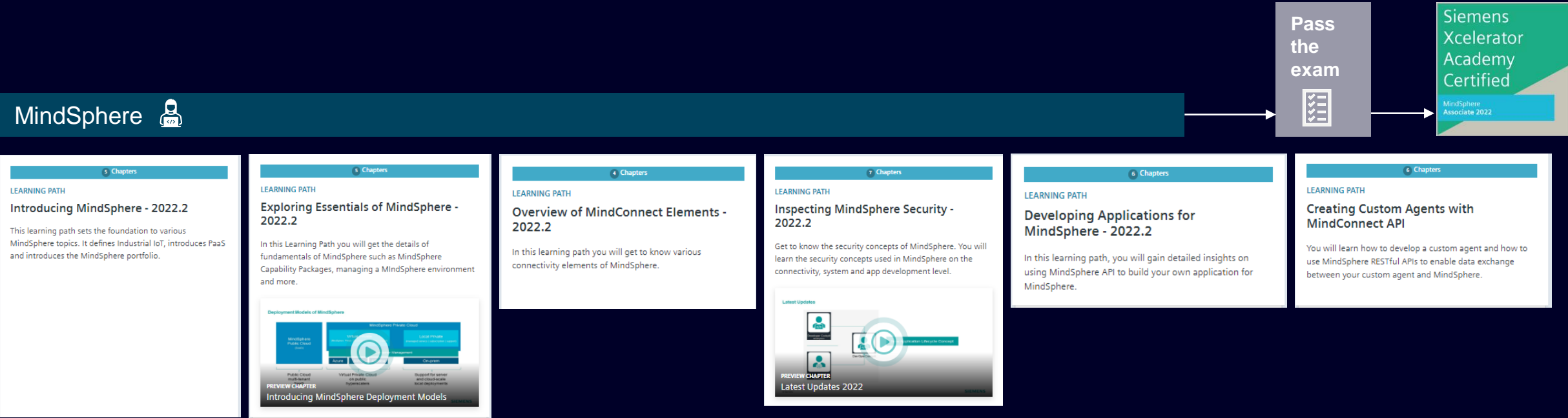
Data Analyst

Creating Dashboards with Visual Flow Creator

Configuring MindConnect Edge Analytics

	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					

Course List: MindSphere Associate Certification



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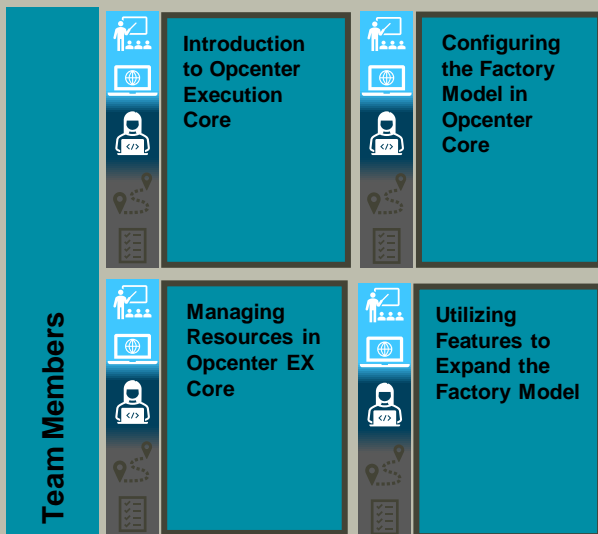


LEARN THE PLATFORM	
Team Members	Learn to successfully implement the Opcenter Execution Core Product
INSTALL AND ADMINISTRATION	
Installers	Learn to install and configure the Opcenter Execution Core Product and be able to perform system administration and troubleshooting
CUSTOMIZE	
Designers /Developers	Learn to customize and extend the functionality of the Opcenter Execution Core Product.
GET CERTIFIED	
Opcenter Ex Core Associate Certification	Choose your learning and take your exam to complete the Opcenter Ex Core Associate certification.



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LEARN THE PLATFORM



MEDICAL DEVICE & DIAGNOSTICS

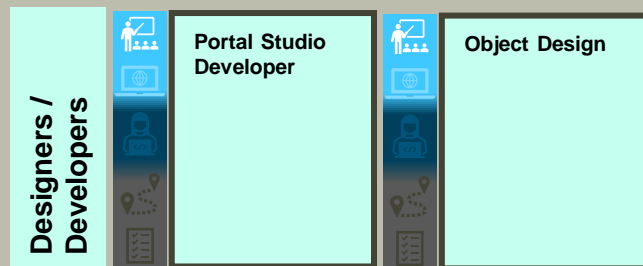


INSTALL AND ADMINISTRATION









Install to perform system administration and troubleshooting

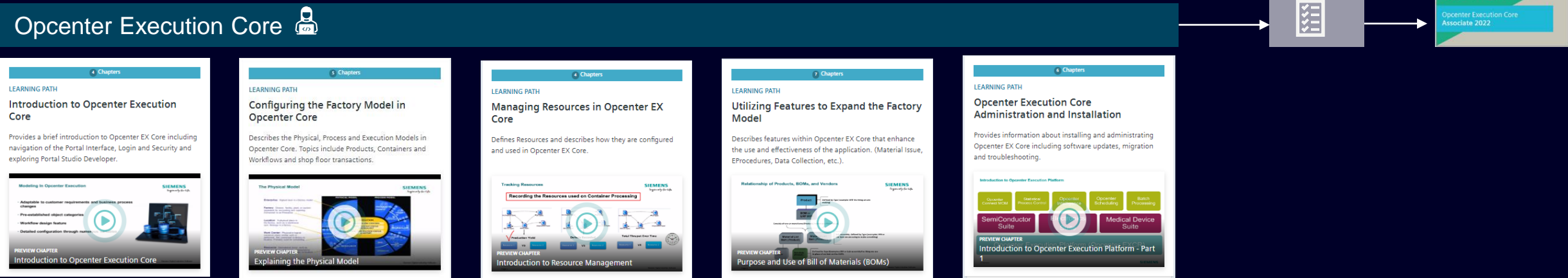
CUSTOMIZE



Customize and extend the functionality

 Instructor-led training	 On-demand training library	 Xcelerator Academy Membership	 Learning Journey	 Standalone Certification Exam	 Optional
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Opcenter Ex Core Associate Certification



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Your learning: At a Glance



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Select a role below



LEARN ABOUT TEAMCENTER QUALITY	
Team Member	Learn about the key features of Teamcenter Quality and about the structure and components of a calculation.
GET CERTIFIED	
Teamcenter Quality Associate Certification	Choose your learning and take your exam to complete the Associate certification .



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LEARN ABOUT TEAMCENTER QUALITY

Team Member

Introduction to Active Workspace (PLM Foundation: Active Workspace)

Manage your product structure (PLM Foundation: Active Workspace)

Manage your release processes (PLM Foundation: Active Workspace)

Introduction to Teamcenter Quality Applications

Quality Issue Management and Problem Solving in Teamcenter Quality Solution

Failure Modes and Effects Analysis (FMEA)

APQP and QAM

Control & Inspection plan

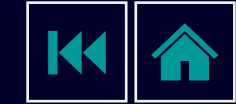
Teamcenter Quality Associate Certification

Siemens Xcelerator Academy Certified

Teamcenter Quality Associate 2022

Click for detailed certification course list

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



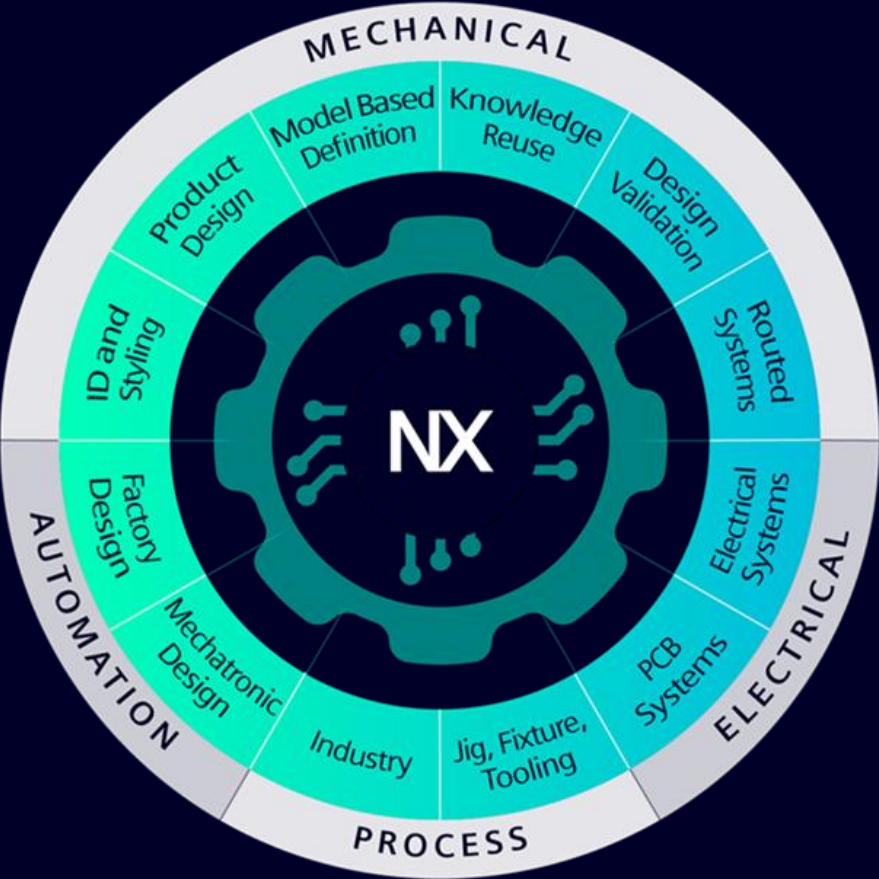
Complete Course List: Teamcenter Quality Associate Certification



Chapters	Chapters	Chapters	Chapters	Chapters	Chapters	Chapters
LEARNING PATH Manage your product structure in Active Workspace Learn and perform basic capabilities working with product structures and 3D models.  PREVIEW CHAPTER Introduction to managing product structures	LEARNING PATH Manage your release processes in Active Workspace In this learning path, you initiate workflow processes, complete task assignments, and monitor workflow progress.  PREVIEW CHAPTER Introduction to workflow processes	LEARNING PATH Introduction to Teamcenter Quality Applications Introduction to key quality concepts along with TCO capabilities, interfaces, specific commands and toolbars, basic configuration, master data and report  PREVIEW CHAPTER Introduction to Teamcenter Quality	LEARNING PATH Quality Issue Management and Problem Solving in Teamcenter Quality Solution Introduction to quality issue, quality action management and problem solving along with root cause analysis, improvement actions within Problem Solving.  PREVIEW CHAPTER Introduction to Quality Issue Management	LEARNING PATH Failure Modes and Effects Analysis (FMEA) Introduction to FMEA structure, Functional and failure analysis, risk analysis and optimization, result documentation within the Teamcenter Quality solution  PREVIEW CHAPTER Introduction to FMEA	LEARNING PATH APQP and QAM Introduction to Advanced Product Quality Planning (APQP) and Quality Action Management (QAM) within the Teamcenter Quality solution.  PREVIEW CHAPTER Introduction to Advanced Product Quality Planning (APQP)	LEARNING PATH Control & Inspection plan Introduction to Control and inspection planning within the Teamcenter Quality solution.  PREVIEW CHAPTER Introduction to Control and Inspection Plan

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Select a role below



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**.



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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

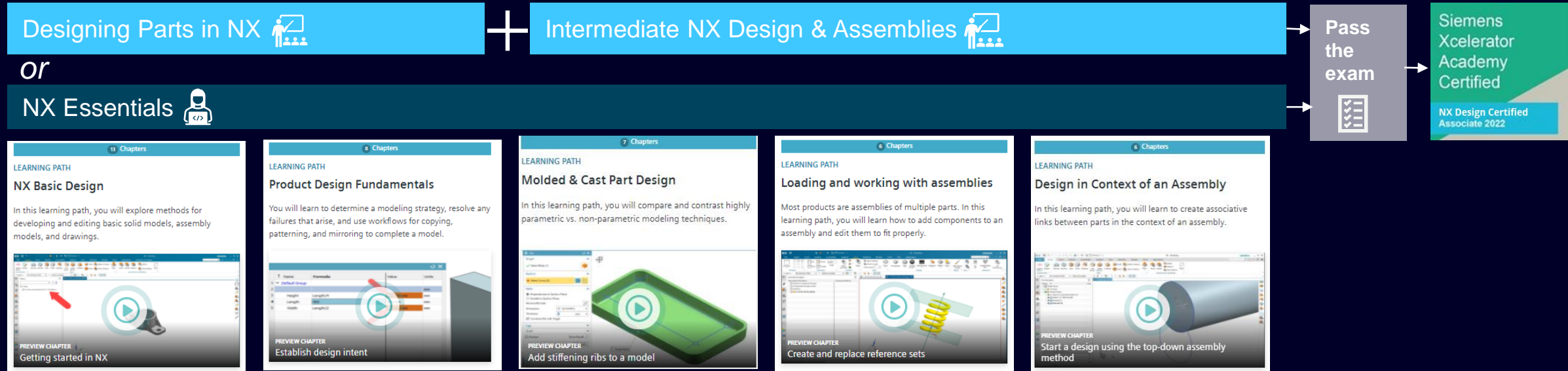
Progressive Die Wizard Fundamentals

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		

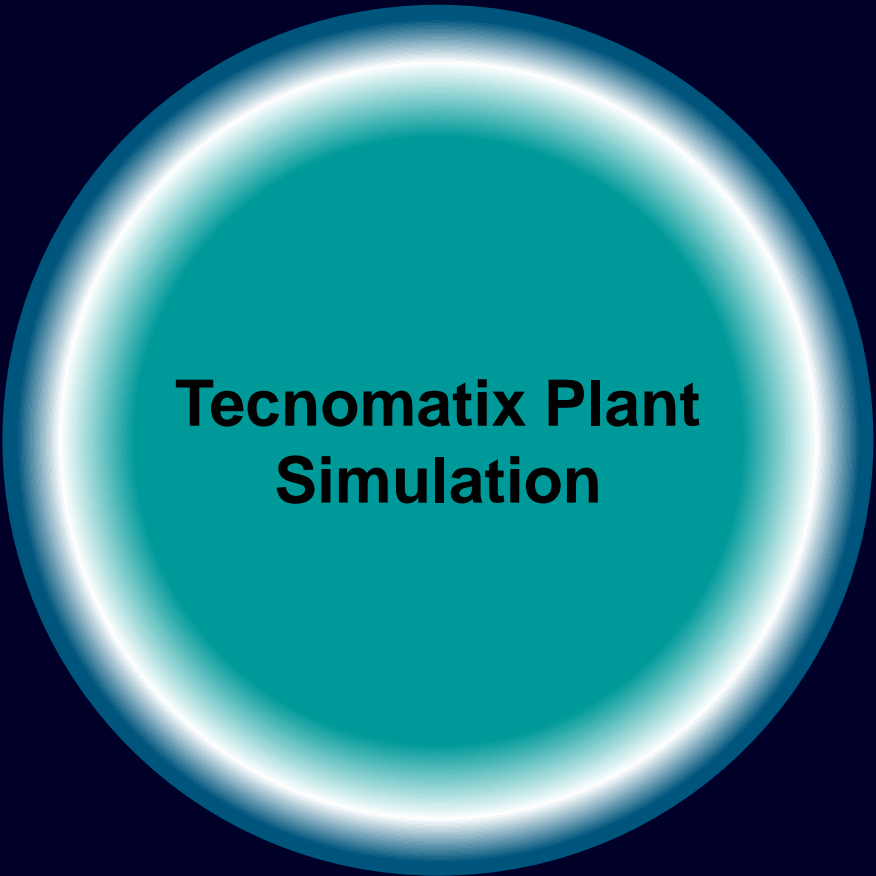
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Complete Course List: NX Core Associate Certification



Xcelerator Academy Learning Maps

Your learning: At a Glance



**Tecnomatix Plant
Simulation**

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 BASIC SIMULATION ENGINEER

End user

Learn about creating Plant Simulation object flow simulations to validate the assembly process of a product.

LEARN ADVANCED SIMULATION ENGINEER

End user

Learn advanced topics for creating more sophisticated Plant Simulation object flow simulations.

GET CERTIFIED

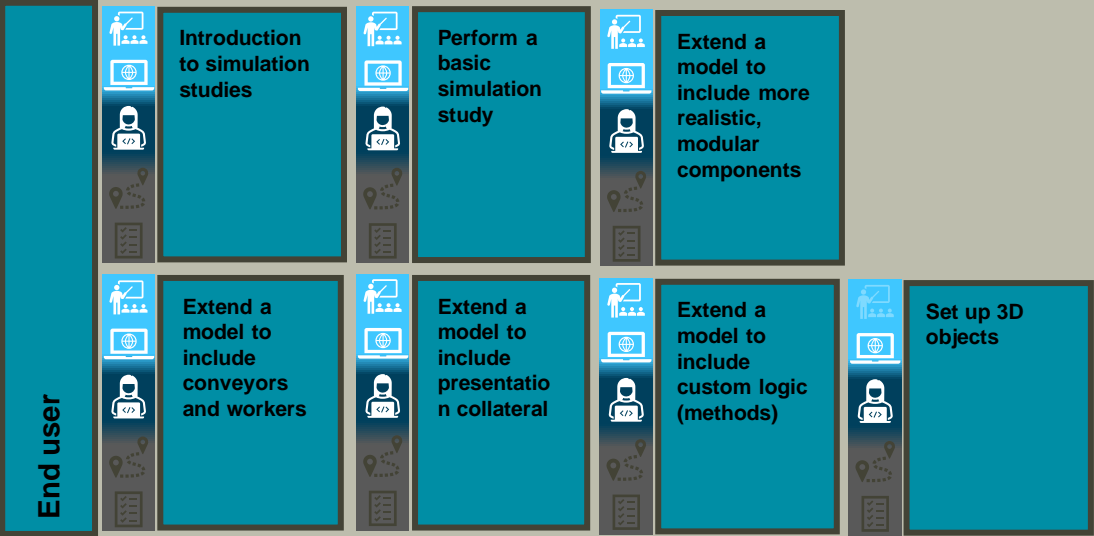
**Plant Simulation Associate
Certification**

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



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LEARN BASIC SIMULATION ENGINEER



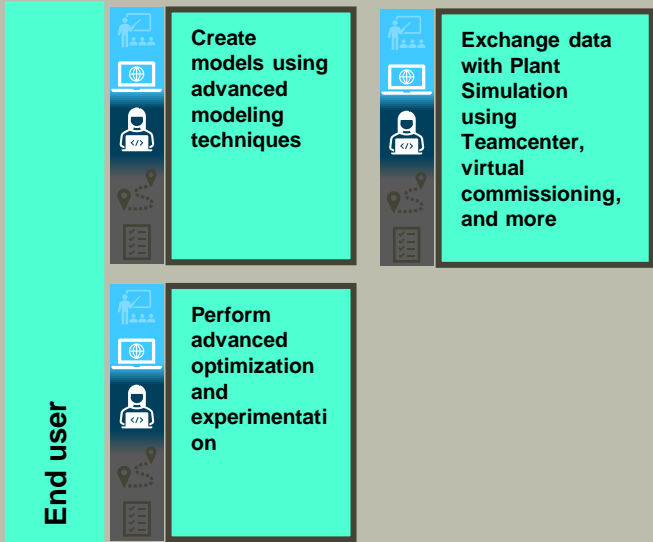
Plant Simulation Associate Certification

Siemens Xcelerator Academy Certified

Plant Simulation Associate 2022

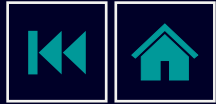
[Click for detailed certification course list](#)

LEARN ADVANCED SIMULATION ENGINEER





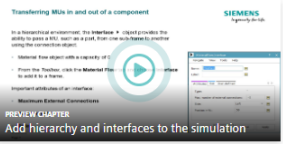
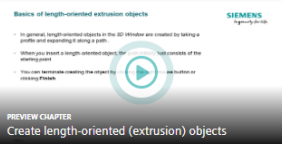


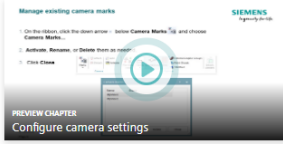
model and simulate sophisticated manufacturing environments

 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	



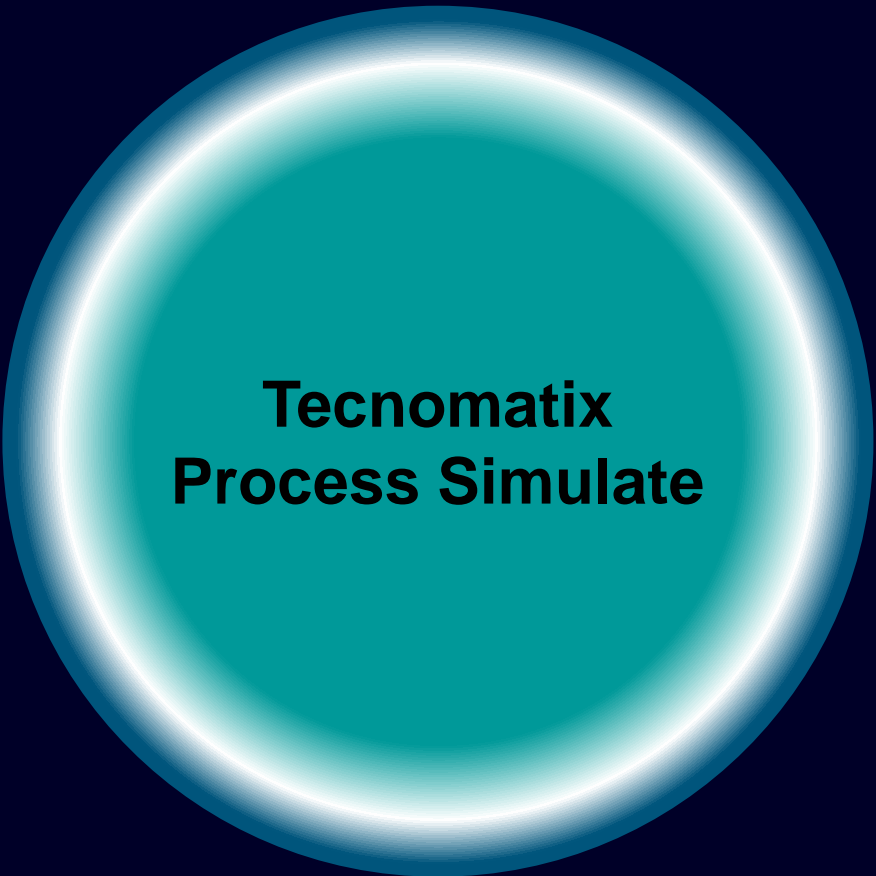
Complete Course List: Tecnomatix Plant Simulation Associate Certification



Chapters	Chapters	Chapters	Chapters	Chapters	Chapters	Chapters
LEARNING PATH Introduction to simulation studies In this learning path, you identify the three phases to performing a simulation study. They provide the framework that is critical to using Plant Simulation.	LEARNING PATH Perform a basic simulation study In this learning path, you apply the phases of a simulation study to make a wooden table. Other paths build add to this model to solve more complex problems.	LEARNING PATH Extend a model to include more realistic, modular components In this learning path, you extend the wooden table example by creating a hierarchical model with buffers, failure profiles, and realistic processing times.	LEARNING PATH Extend a model to include conveyors and workers In this learning path, you extend the wooden table example by creating components to convey parts for assembly and use workers.	LEARNING PATH Extend a model to include presentation collateral In this learning path, you extend the wooden table example by creating the collateral needed to present your recommendations.	LEARNING PATH Extend a model to include custom logic (methods) In this learning path, you extend the wooden table example to include methods to collect statistics, modify attributes, and read/write files.	LEARNING PATH Set up 3D objects In this learning path, you create and use cameras, create and import 3D graphics, and create a custom library of objects.
 <p>PREVIEW CHAPTER How to use Plant Simulation effectively</p>	 <p>PREVIEW CHAPTER Describe system analysis techniques used in Plant Simulation</p>	 <p>PREVIEW CHAPTER Add hierarchy and interfaces to the simulation</p>	 <p>PREVIEW CHAPTER Create length-oriented (extrusion) objects</p>	 <p>PREVIEW CHAPTER Create a CompShip element</p>	 <p>PREVIEW CHAPTER Insert custom logic</p>	 <p>PREVIEW CHAPTER Configure camera settings</p>

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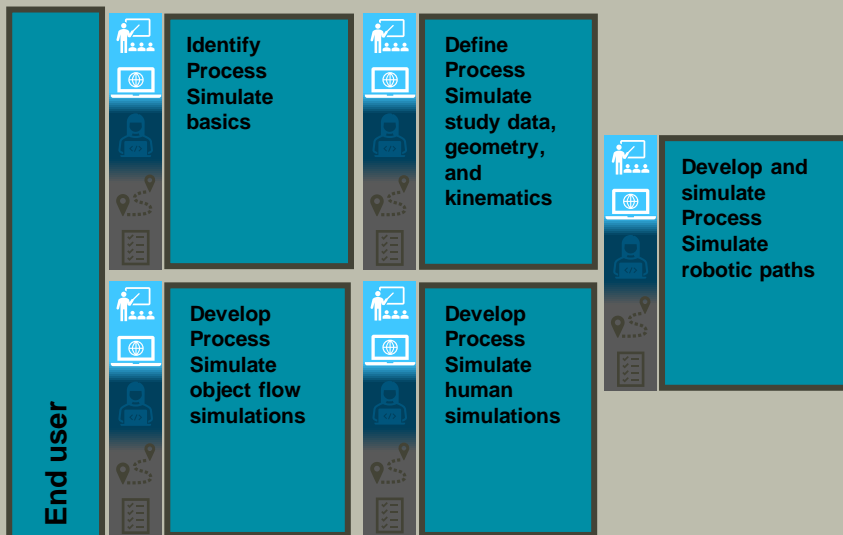


LEARN PROCESS SIMULATE ESSENTIALS	
End user	New users are given the basic skills required to work with process simulation to digitalize manufacturing processes and layouts
LEARN ABOUT OBJECT FLOW SIMULATIONS	
Digital Assembly Validation Engineer	Learn about performing Process Simulate object flow simulations to validate the assembly process of a product
LEARN ABOUT HUMAN REACH CHECKS, SIMULATIONS	
Human Simulation Engineer or Ergonomist	Learn about performing Process Simulate Human reach checks, simulations, and reports to validate the assembly process of a product
LEARN ABOUT ROBOTICS REACH CHECKS, SIMULATIONS	
Robot simulation Engineer	Learn about performing Process Simulate robotics reach checks, simulations, and off-line programming.
GET CERTIFIED	
Tecnomatix Process Simulate Associate Certification	Choose your learning and take your exam to complete the Process Simulate Standalone Associate certification.

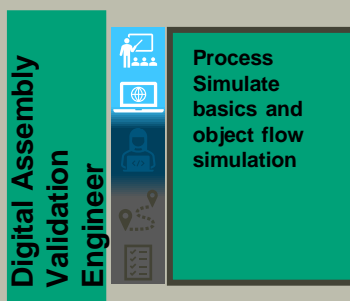


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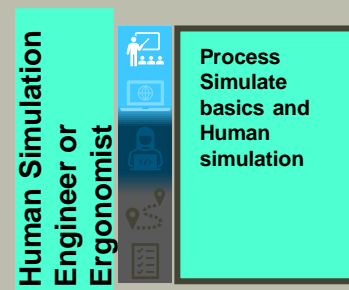
LEARN PROCESS SIMULATE ESSENTIALS



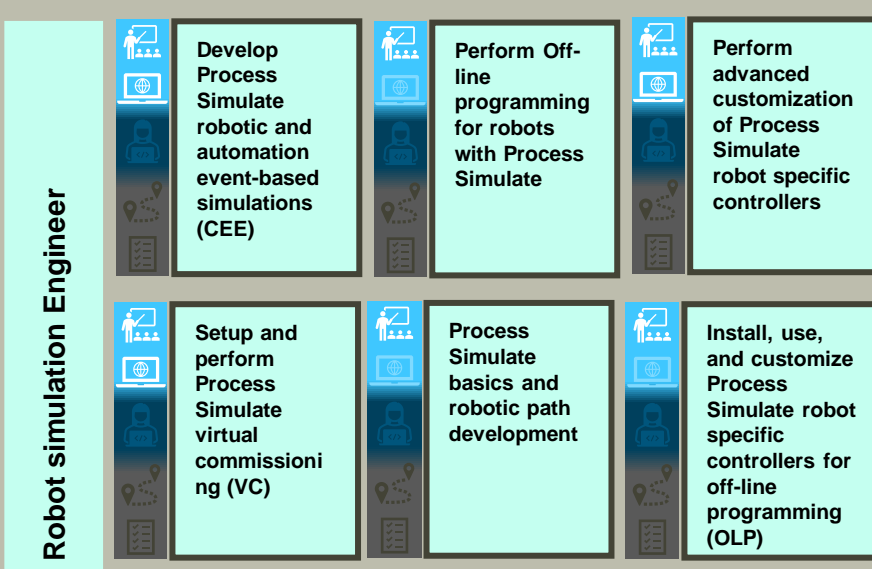
LEARN ABOUT OBJECT FLOW SIMULATIONS



LEARN ABOUT HUMAN REACH CHECKS, SIMULATIONS



LEARN ABOUT ROBOTICS REACH CHECKS, SIMULATIONS



Process Simulate Associate Certification

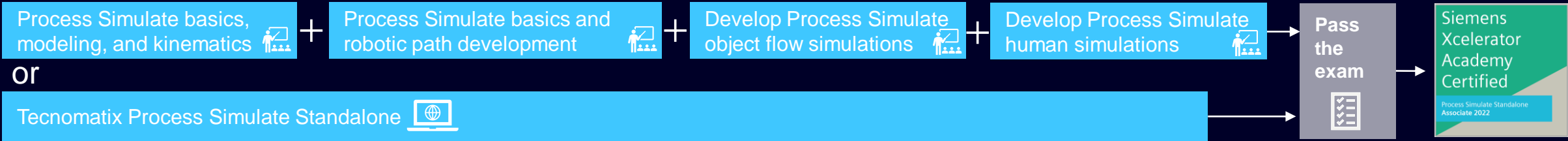
Siemens Xcelerator Academy Certified

Process Simulate Standalone Associate 2022

[Click for detailed certification course list](#)

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		

Complete Course List: Tecnomatix Process Simulate Associate Certification



<p>7 Chapters</p> <p>LEARNING PATH</p> <p>Identify Process Simulate basics</p> <p>In this learning path, you identify the Process Simulate basic methodology and perform basic tasks in the Graphic Viewer and tree views.</p> <p>Identify Process Simulate tasks</p> <ul style="list-style-type: none"> Basic tasks including modeling and kinematics Human Simulation Resource path simulation: PLC activation programming Part and resource flow simulation <p>PREVIEW CHAPTER</p> <p>Identify the Process Simulate basic methodology and purpose</p>	<p>8 Chapters</p> <p>LEARNING PATH</p> <p>Develop and simulate Process Simulate robotic paths</p> <p>In this learning path, you develop robotic paths for spot welding, arc welding, painting, drilling/riveting, and other types of robot applications.</p> <p>Identify discrete robotic applications used in this learning path</p> <ul style="list-style-type: none"> Spot welding applications: For example, spot welding with the weld gun module (welding, penetration or servo weld gun) Paint, spot welding (spot process) Drilling and riveting applications: For example, drilling <p>PREVIEW CHAPTER</p> <p>Identify basic robotics concepts</p>	<p>9 Chapters</p> <p>LEARNING PATH</p> <p>Develop Process Simulate object flow simulations</p> <p>In this learning path, you manually and automatically develop part and resource object flow path simulations.</p> <p>Conduct Assembly Simulation for Virtual Process Verification</p> <ul style="list-style-type: none"> Optimize the assembly process before going to the shop floor. Verify the assembly process by simulating the assembly process in the virtual environment. <p>PREVIEW CHAPTER</p> <p>Identify object flow path basics</p>	<p>10 Chapters</p> <p>LEARNING PATH</p> <p>Develop Process Simulate human simulations</p> <p>In this learning path, you develop human reach studies, human simulations, assign time to operations, and perform ergonomic evaluations of worker tasks.</p> <p>Human overview</p> <ul style="list-style-type: none"> In Process Simulate you can plan tasks for a human worker in a virtual environment. Human worker simulation is used to verify the assembly process before going to the shop floor. The human figure is created based on the human figure data. If the worker you define does not exist in the database, you can create a new human figure. <p>PREVIEW CHAPTER</p> <p>Identify human task simulation basics</p>	<p>11 Chapters</p> <p>LEARNING PATH</p> <p>Define Process Simulate study data, geometry, and kinematics</p> <p>In this learning path, you define snapshots, markups, sections, cables, component geometry and component kinematics.</p> <p>Identify the snapshot editor commands</p> <ul style="list-style-type: none"> Snapshot Editor toolbar New Snapshot Remove Snapshot Edit Snapshot Update Snapshot Apply Snapshot <p>PREVIEW CHAPTER</p> <p>Create and use snapshots and the Markup Editor</p>
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Xcelerator Academy Learning Maps

Your learning: At a Glance

Tecnomatix Process Simulate on Teamcenter

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Select a role below



LEARN PROCESS SIMULATE ESSENTIALS

End user

New users are given the basic skills required to work with process simulation to digitalize manufacturing processes and layouts

LEARN ABOUT OBJECT FLOW SIMULATIONS

Digital Assembly Validation Engineer

Learn about performing Process Simulate object flow simulations to validate the assembly process of a product

LEARN ABOUT HUMAN REACH CHECKS, SIMULATIONS

Human Simulation Engineer or Ergonomist

Learn about performing Process Simulate Human reach checks, simulations, and reports to validate the assembly process of a product

LEARN ABOUT ROBOTICS REACH CHECKS, SIMULATIONS

Robot simulation Engineer

Learn about performing Process Simulate robotics reach checks, simulations, and off-line programming.

GET CERTIFIED

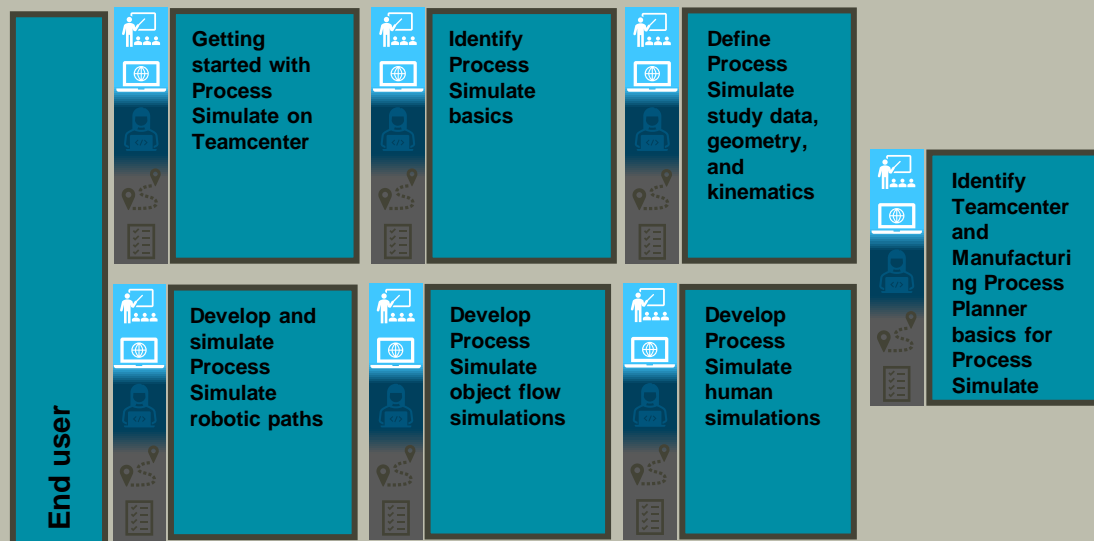
Tecnomatix Process Simulate on Teamcenter Associate Certification

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



SIEMENS

LEARN PROCESS SIMULATE ESSENTIALS



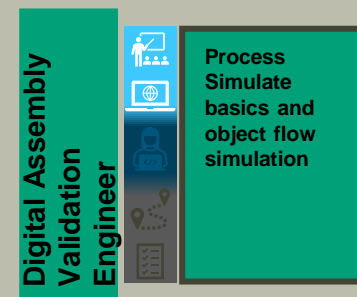
Process Simulate Associate Certification

Siemens Xcelerator Academy Certified

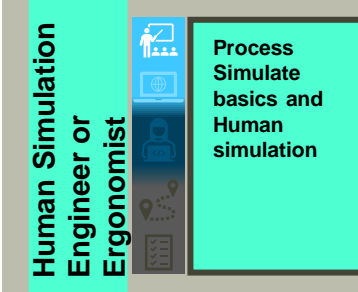
Process Simulate for Teamcenter Associate 2022

[Click for detailed certification course list](#)

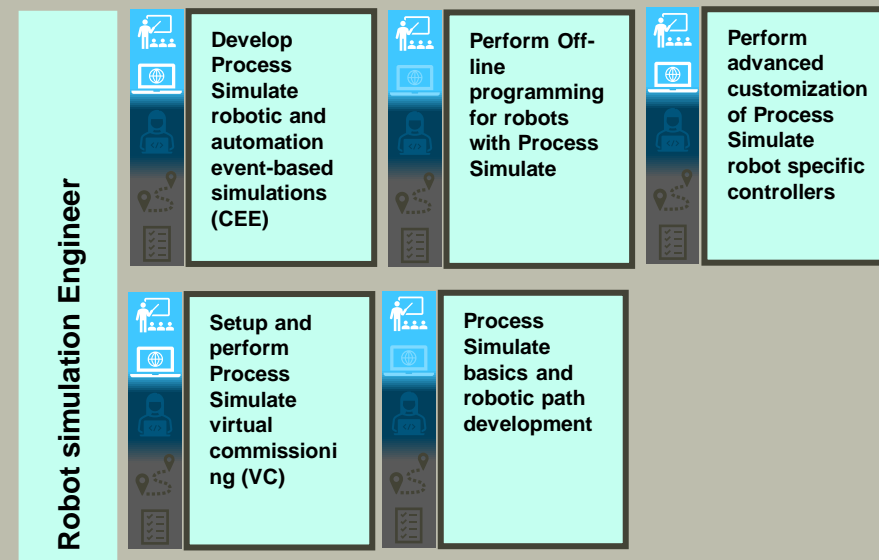
LEARN ABOUT OBJECT FLOW SIMULATIONS



LEARN ABOUT HUMAN REACH CHECKS, SIMULATIONS



LEARN ABOUT ROBOTICS REACH CHECKS, SIMULATIONS



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		




CHAPTER 5

LEARNING PATH

Define Process Simulate study data, geometry, and kinematics (PS on TC)

In this learning path, you define snapshots, markups, sections, cables, component geometry and component kinematics.

Identify the snapshot editor commands

Snapshot Editor toolbar:  Snapshot Editor right-click menu: 

PREVIEW CHAPTER

Create and use snapshots and the Markup Editor

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 BASICS	
Administrator	Interrogate an NX part that has been manufactured and machine a simple prismatic part.
LEARN ABOUT MANUFACTURING PARTS	
Manufacturing Engineer & Tooling Designer	Manufacture prismatic, multi-axis, lathe parts, use NX for turbomachinery, Post Process NX CAM parts.
LEARN ABOUT LINE PLANNER & ROBOTICS	
Line Planner & Machine/Robotics Programmer	Manufacture parts, set up a manufacturing line based on NX Line Planner, and use NX for Robotics.
GET CERTIFIED	
NX CAM Manufacturing Engineer Associate Certification	Choose your learning and take your exam to complete the NX CAM Manufacturing Engineer Associate certification.



SIEMENS

LEARN THE BASICS

Administrator

NX Basic Design

Managing NC Programming Data

Machining a Prismatic Part

Manufacturing Engineer

Fixed and Multi axis

Turbomachinery and other Multi-axis options

NX CAM Manufacturing Engineer Associate Certification

Siemens Xcelerator Academy Certified
NX CAM Manufacturing Engineer Associate 2022

Click for detailed certification course list

LEARN ABOUT MANUFACTURING PARTS

Manufacturing Engineer & Tooling Designer

Turning Manufacturing

Turning – Other Options

Post Configurator

LEARN ABOUT LINE PLANNER & ROBOTICS

Line Planner & Machine/Robotics Programmer

Line Designer - Native

Line Designer - Teamcenter

Other Manufacturing Options

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	

Complete Course List: NX CAM Manufacturing Engineer Associate Certification




Chapters

LEARNING PATH

NX Basic Design (Current)

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



PREVIEW CHAPTER

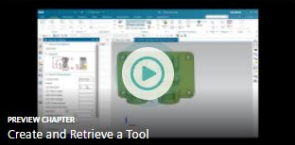
Getting started in NX

Chapters

LEARNING PATH

Managing NC Programming Data

Review and change data and information used to manufacture parts. Also, begin milling a basic prismatic part.



PREVIEW CHAPTER


Create and Retrieve a Tool

Chapters

LEARNING PATH

Machining a Prismatic Part

Use varying prismatic machining methods in milling and turning operations.



PREVIEW CHAPTER

Define Coordinate Systems

Chapters

LEARNING PATH

Fixed-axis and Multi-axis Milling

You will learn the use of the NX Manufacturing application for creating fixed-axis and variable-axis tool paths.



PREVIEW CHAPTER


Plunge milling

Chapters

LEARNING PATH

Turbomachinery and other Multi-axis options

Program turbomachinery parts and learn other multi-axis options: non-cutting moves, hole machining, in process workpiece transfer and probing & generic motion.

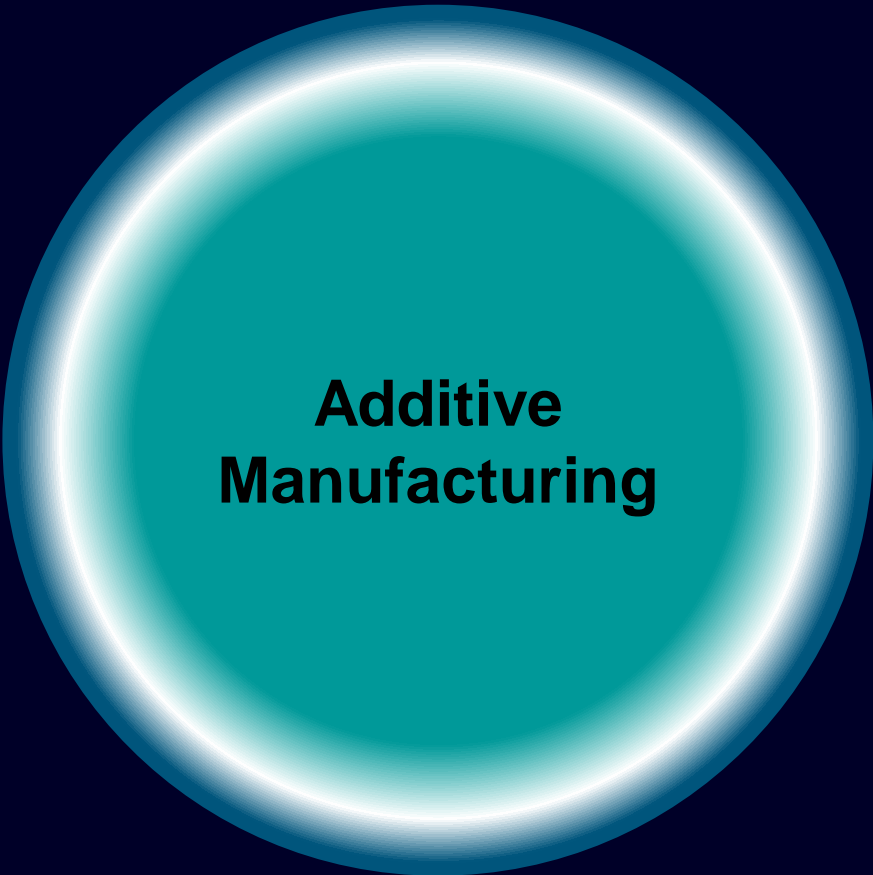


PREVIEW CHAPTER

Tool axis control in sequential milling

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 ESSENTIALS	
Additive Manufacturing Designer	Designed to provide additive manufacturers the foundation they need to model components intended to be additively manufactured
LEARN PLANAR ESSENTIALS	
Planar (powder bed) Manufacturing Engineer	Learn how to organize build trays, provide supporting structures, develop and simulate programs for powder bed additive machines and other planar additive processes.
LEARN DEPOSITON OPERATIONS	
Multi-axis Deposition Manufacturing Engineer	Provide manufacturers the foundation they need to program deposition operations in NX CAM to support additive manufacturing on various deposition machines
GET CERTIFIED	
Additive Manufacturing Designer Associate Certification	Choose your learning and take your exam to complete the Additive Manufacturing Designer Associate certification.



SIEMENS

LEARN THE ESSENTIALS

Additive Manufacturing Designer

Introduction to Additive Manufacturing

Component Design for Additive Manufacturing

Polygon Modeling and Reverse Engineering

Use Additive Manufacturing Designer!

LEARN PLANAR ESSENTIALS

Planar (powder bed) Mfg. Engineer

NX Additive Manufacturing - Planar Additive

Maximizing Your Build Success with AM Build Optimizer

Additive Manufacturing Process Simulation

Learn how to simulate programs for powder bed additive machines

LEARN DEPOSITION OPERATIONS

Multi-axis Deposition Mfg. Engineer

Managing NC Programming Data

Multi-axis Additive Manufacturing

Support additive manufacturing on various deposition machines

Additive Mfg. Designer Associate Certification

Siemens Xcelerator Academy Certified

Additive Manufacturing Designer Associate 2022

Click for detailed certification course list

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

Course List: Additive Manufacturing Designer Associate Certification



5 Chapters

LEARNING PATH

Introduction to Additive Manufacturing

Overview of the processes and strategies associated with additive manufacturing in the context of the product development lifecycle.

Additive Manufacturing Processes



PREVIEW CHAPTER

Intro to Additive Manufacturing Processes

7 Chapters

LEARNING PATH

Component Design for Additive Manufacturing

This learning path will develop skills within NX design specifically for the design of components for additive manufacturing.

Component Design Concepts in NX



PREVIEW CHAPTER

Introduction to Component Design for Additive Manufacturing


7 Chapters

LEARNING PATH

Polygon Modeling and Reverse Engineering (Current)

Learn to create, modify, and improve faceted models using the NX Polygon Modeling capabilities

NX Polygon Modeling

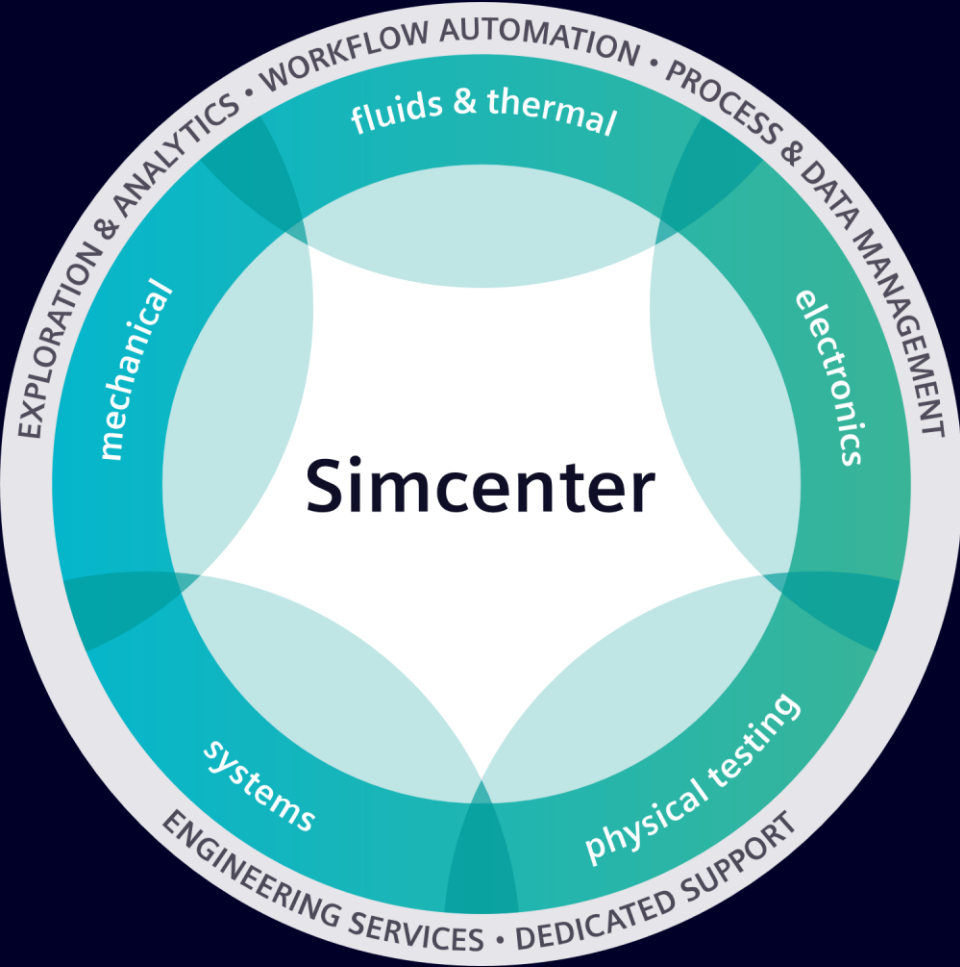


PREVIEW CHAPTER

Introduction to Polygon Modeling

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**.



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

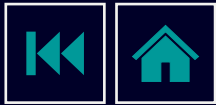
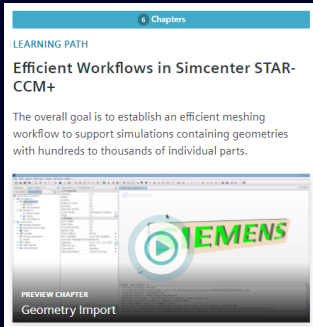
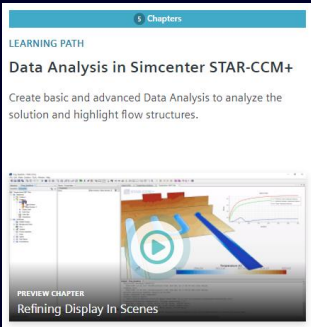
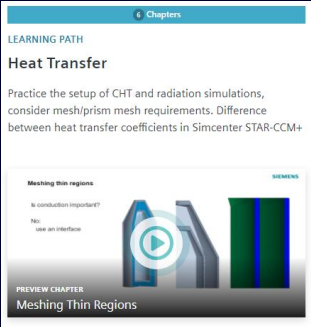
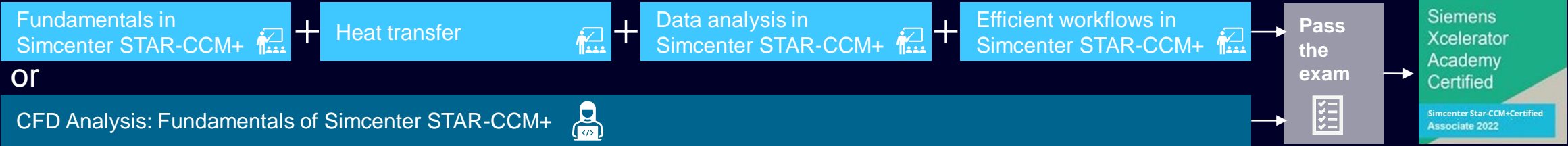
Design Space Exploration

Efficient workflows in Simcenter STAR-CCM+

Automate processes in Simcenter STAR-CCM+!

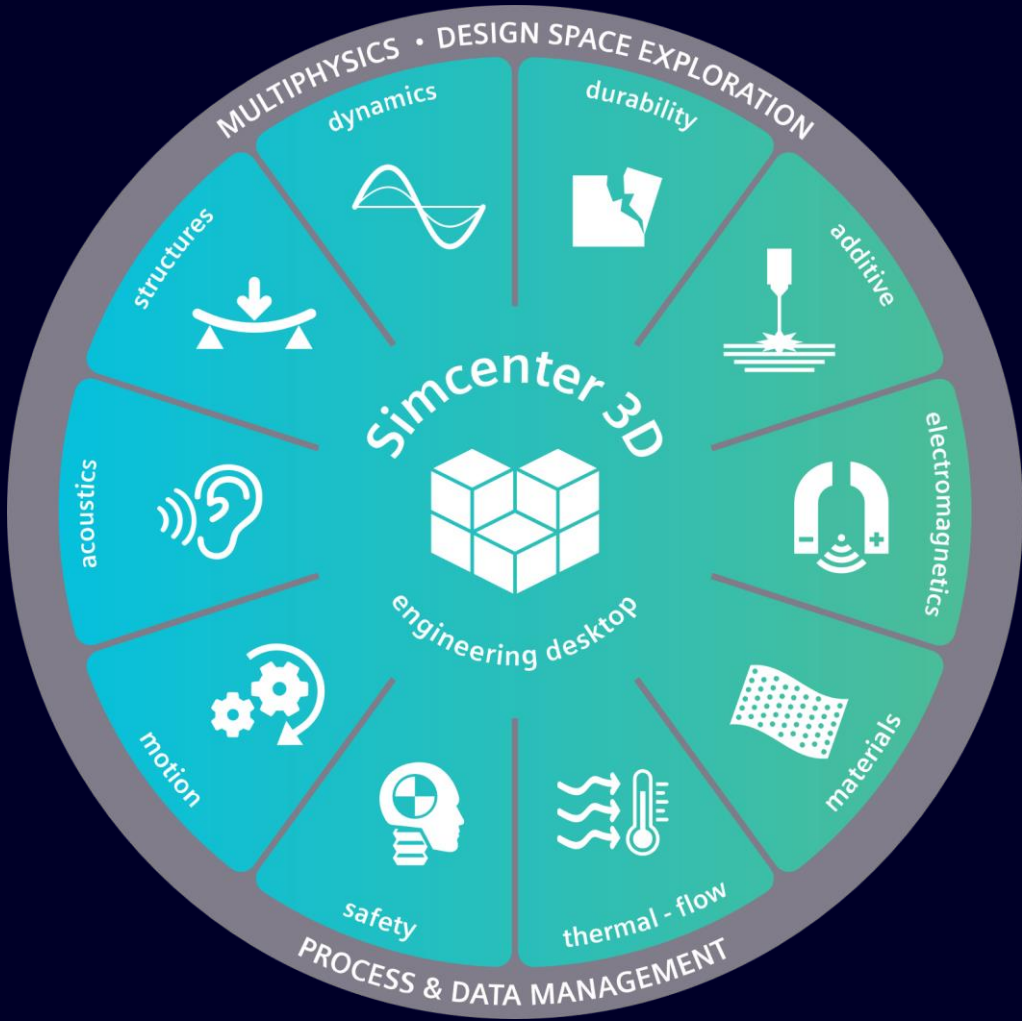
Instructor-led training	On-demand training library	Xcelerator Academy Membership	Learning Journey	Standalone Certification Exam
**Virtual lab environment included in offer		Add-on vLab hours available for purchase	**Virtual lab environment included in offer	

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



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

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!

Simcenter 3D Certification Exam

Siemens Xcelerator Academy Certified

Capital Logic 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

 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 3D Associate



5 Chapters

LEARNING PATH

Fundamentals of using Pre/Post

Learn how to analyze a model and work with analysis data in Simcenter 3D.

- Simcenter 3D Engineering Desktop
- Simulation Modeling
- Multi-discipline Integration
- Openness and scalability
- Communication with the enterprise
- Knowledge capture and automation

PREVIEW CHAPTER
What Can You Do with Pre/Post?

9 Chapters

LEARNING PATH

Preparing the Model for Analysis

Learn how to prepare a model for analysis by working with geometry, meshes, connections, assemblies, loads, and boundary conditions.

PREVIEW CHAPTER
Loading a Model into Simcenter 3D

4 Chapters

LEARNING PATH

Solving the Model

Learn how to solve a model with the Simcenter Nastran solver using structural analysis types.

PREVIEW CHAPTER
Using Solutions and Subcases

6 Chapters

LEARNING PATH

Reviewing Analysis Results

Learn how to display analysis results using post views, graphs, and reports.

PREVIEW CHAPTER
Displaying Results Overview

7 Chapters

LEARNING PATH

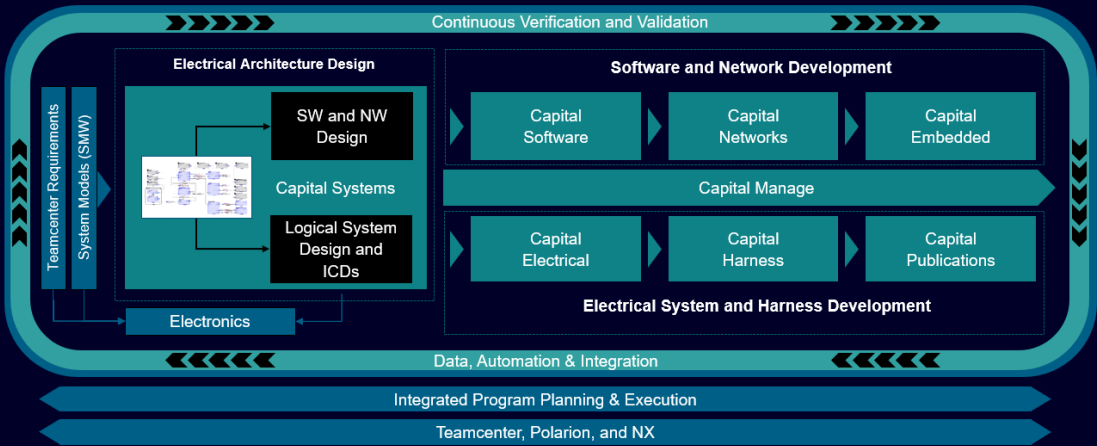
Processes and Solutions

Learn how to analyze models using specialized Simcenter 3D tools.

PREVIEW CHAPTER
Refining a Mesh with Adaptive Meshing

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 CAPITAL LOGIC DESIGNER ESSENTIALS

Schematic & Wiring Designers

New users are given the basic skills required to create a systems design and a wiring diagram, followed with advanced functionality to create a more complex design.

LEARN ADVANCED CONNECTIVITY FUNCTIONALITY

Schematic or Wiring Designer, or Administrator

Extended learning for all designers, engineers & others, working with schematics and wiring diagrams, using Capital Logic and supporting applications..

LEARN ELECTRICAL OPTIMIZATION & VERIFICATION

Schematic & Wiring Designers

Learn how to use simulation and analysis tools to validate electrical design connectivity along with electrical load analysis.

LEARN TOPOLOGY DESIGN

Topology Designer

Engineers working with Capital Topology learn how to create a topological view and associate wiring designs to it, for wire routing scenarios using rules..

GET CERTIFIED

Capital Logic Designer Associate Certification

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



SIEMENS


LEARN THE ESSENTIALS

Schematic & Wiring End user

Capital Logic Designer - Getting Started

Capital Logic Designer - Advanced

Capital Logic Designer Associate Certification



Siemens Xcelerator Academy Certified

Capital Logic Associate 2022

Click for detailed certification course list

Use Capital Logic Designer!

LEARN EXTENDED CAPITAL LOGIC DESIGNER MCAD INTEGRATION AND SETUP CAPABILITIES

Schematic & Wiring Designers or Admin

MCAD with Electrical Distribution

Styling for Electrical Distribution

Queries & Query Editor

Integrate and support accurate & consistent design creation!

LEARN ELECTRICAL OPTIMIZATION & VERIFICATION

Systems & Wiring Designers

Capital Analysis

Capital Load Analyzer

Validate electrical design!

LEARN TOPOLOGY DESIGN

Topology Designer

Capital Topology

Capital Topology & Capital Integrator MCAD Integration

Core Applications – Electrical Distribution

Utilize Topological views for routing scenarios!

 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	

Course List: Capital Logic Designer Associate Certification




7 Chapters

LEARNING PATH

Capital Logic - Getting Started

Learn entry-level skills, for students new to Capital Logic; learn how to find your way around the basics of Capital Logic.



Anatomy of a schematic

PREVIEW CHAPTER

Anatomy of a Schematic

9 Chapters

LEARNING PATH

Capital Logic - Advanced

Learn how to create design configuration, use more advanced wiring functionality, assign library parts, & test your knowledge by creating a more complex design.



Options

PREVIEW CHAPTER

Options