Xcelerator Academy Learning Maps
Your learning: At a Glance

SIEMENS

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.

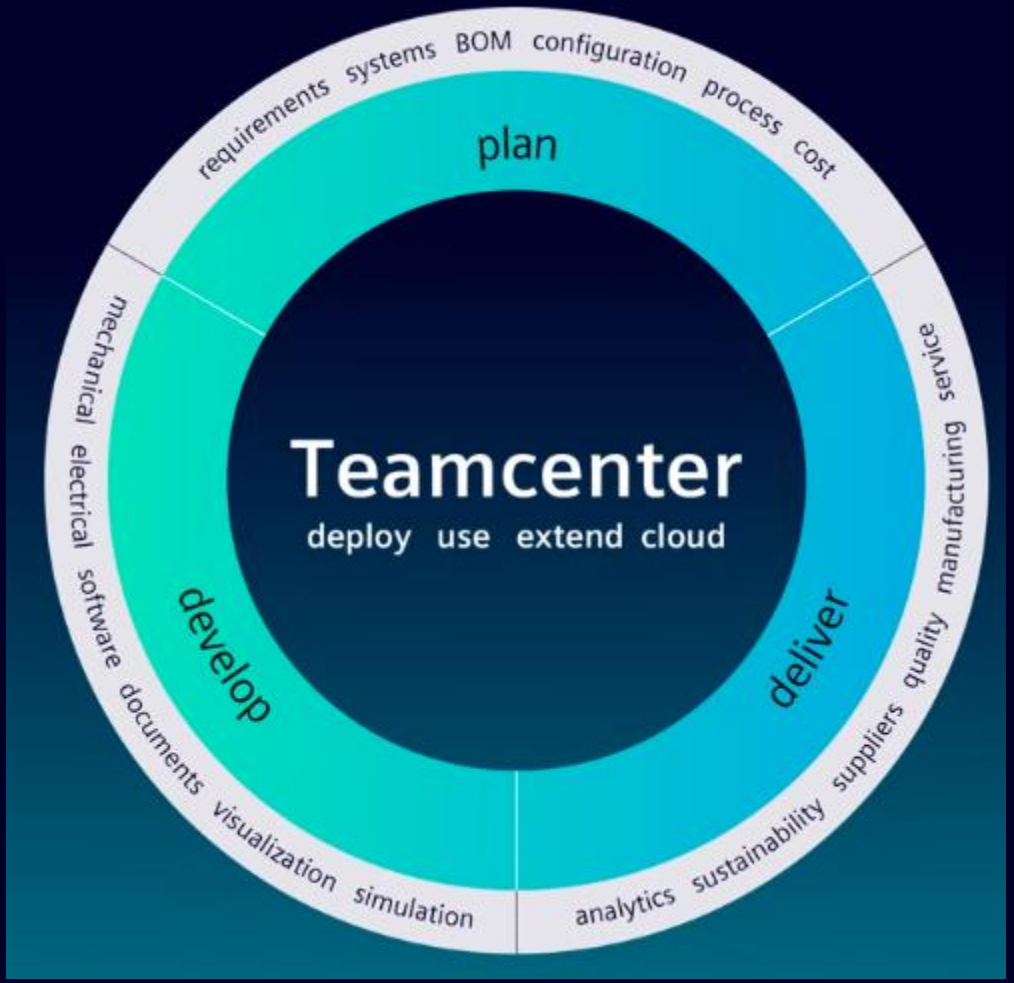
NX Learning →

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!

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 PLATFORM

Team Members	Learn the fundamentals of using the Teamcenter PLM Foundation Platform

INSTALL, CUSTOMIZE, OR ADMINSTER 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.

SIEMENS

Teamcenter Learning → At a Glance

LEARN THE PLATFORM

Team Members

*RAC *AW

Teamcenter Fundamentals

- Introduction to Teamcenter — *RAC
- Active Workspace: Managing your product data — *AW
- Managing your Release Process
- Managing Changes
- Managing your Product Structure
- Visualizing your Product Model
- Managing Product Supporting Documents — *RAC
- Scheduling projects, resources & tasks — *AW

ADD-ONS

- Managing your requirements — *AW
- Coord. the work activities of multiple teams — *AW
- Use MCAD integration with TC — *AW
- Use ECAD integration with TC — *AW

→ **Use PLM Foundation**

USE TEAMCENTER

Installers

INSTALL

Install TC using Deployment Center

- Identify Teamcenter Install Fundamentals
- Add-on to a Teamcenter Install
- Install TC using Deployment Center

ADD-ONS

- Install Active Workspace — *AW
- Config. MCAD or ECAD integration — *AW
- Config. Classification — *RAC

→ **Install Teamcenter**

Personalization

*RAC *AW

Teamcenter Basics

- Introduction to Teamcenter — *RAC
- Active Workspace: Managing your product data — *AW
- Managing your Release Process
- Manage your product structure — *AW

CUSTOMIZE

*RAC *AW

- Perform server-side customization for Teamcenter
- Perform client-side customization for Teamcenter — *AW

→ **Configure Teamcenter**

Administrators

ADMINISTER

Teamcenter Business Modeler Administration

- Identify Teamcenter data model (BMIDE) Fundamentals
- Perform advanced Teamcenter data model (BMIDE) tasks

Manage Administration Data in Teamcenter

- Perform basic Teamcenter admin. tasks — *RAC
- Perform advanced Teamcenter admin. tasks — *RAC
- Administer workflows in Teamcenter — *RAC
- Manage admin. data in Active Workspace — *AW

→ **Administer Teamcenter**

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	

*AW = for Active Workspace users only

*RAC = for Rich Client users only

SIEMENS

Become a TC / TCx Associate → At a Glance

STUDY

Get Started

- Identify starting tasks for a consumer
- Identify starting tasks for an author/ designer
- Identify starting tasks for a manager/ checker

Essentials

- Work smarter in Active Workspace
- Visualize your product model
- Manage your product structure
- Managing your Release Process

Install, administer customize

- Install using Deployment Center
- Identify Teamcenter Install Fundamentals
- Add-on to a Teamcenter Install
- Install Active Workspace
- Identify Teamcenter data model (BMIDE) Fundamentals
- Perform advanced Teamcenter data model (BMIDE) tasks
- Perform Active Workspace client administration

TAKE EXAM

Practice Exam

Associate Certification Exam

Click for detailed certification course list

ACHIEVE CERTIFICATION

Siemens Xcelerator Academy Certified

Teamcenter Certified Associate 2022

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:
Teamcenter / Teamcenter X Associate

Teamcenter / Teamcenter X Associate

Getting Started with Teamcenter Active Workspace / Teamcenter X (1 day)

Identify starting tasks for a consumer	Identify starting tasks for a manager / checker	Identify starting tasks for an author / designer
Identify basic tasks for a consumer	Identify basic tasks for a manager / checker Approve and release data for a manager / checker Initiate a workflow for a manager / checker	Identify basic tasks for an author / designer 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

Teamcenter Active Workspace / Teamcenter X Essentials (1 day)

Work smarter in Active Workspace	Manage your product structure	Visualize your product model	Manage your release process
Identify additional basic abilities in Active Workspace Identify additional search techniques to find content	Open and view product structures Create and edit product structures Analyze product structures	View visualization data	Manage workflow task assignments Preconfigured workflows

Teamcenter Installation and Configuration (16.5 days)

Install using Deployment Center	Identify Teamcenter install fundamentals	Add-on to a Teamcenter install	Install Active Workspace
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 Teamcenter data model (BMIDE)	Perform advanced Teamcenter data model (BMIDE) tasks	Perform Active Workspace client admin 1	Perform Active Workspace client admin 2
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

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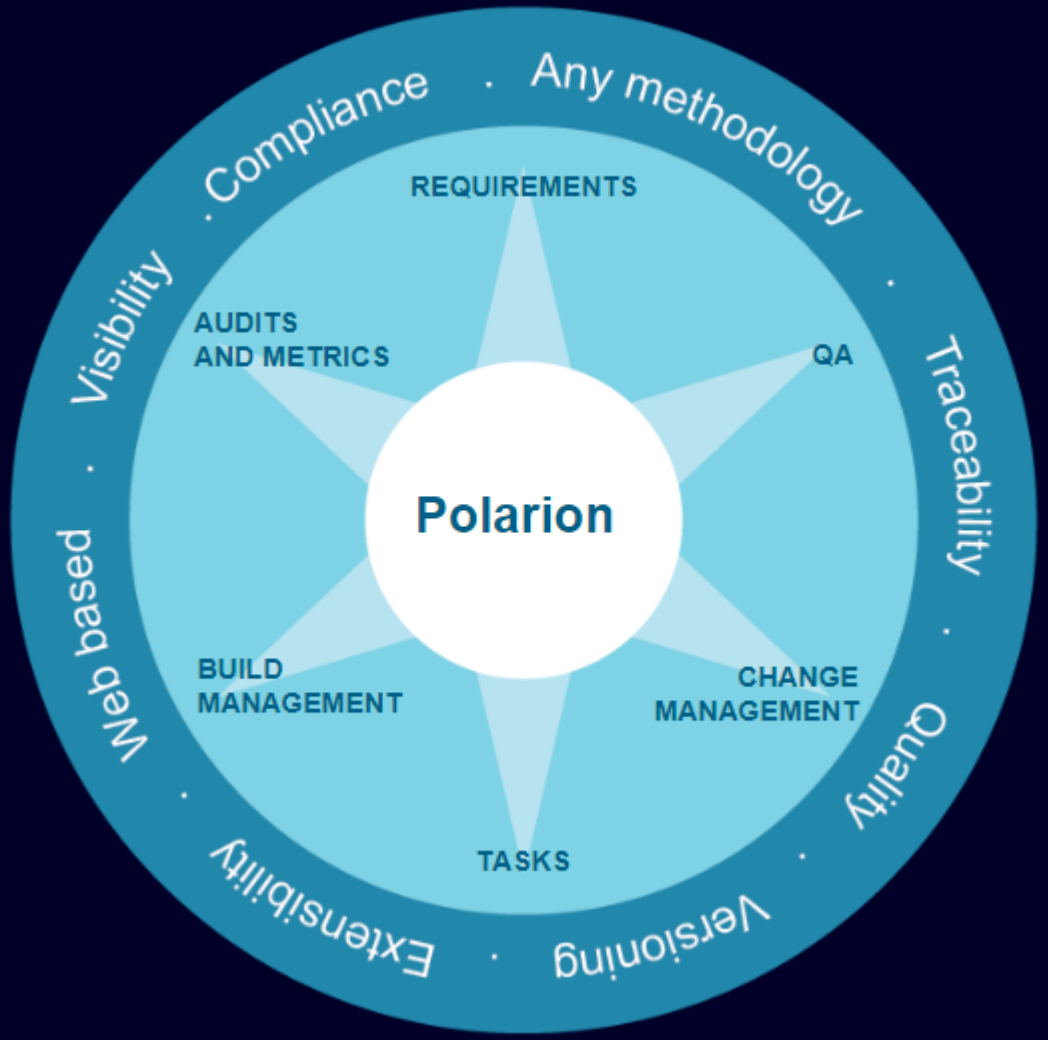
Xcelerator Academy Learning Maps
Your learning: At a Glance



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

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 → At a Glance

Polarion: Managing and controlling your project data

Requirements Manager (V-Model)

Requirements Management using V-Model

- Polarion Fundamentals
- Requirements Management using V-Model

Test Manager

Test Management

- Polarion Fundamentals
- Test Management

Polarion: Get Certified

Polarion Certification Exam

Siemens Xcelerator Academy Certified

Polarion Certified Associate 2022

Click for detailed certification course list

Polarion: Install, configure, administer and integrations

Administrator

Polarion Administration

- Polarion Fundamentals
- Polarion Administration

Polarion 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	

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: Polarion Associate Certification

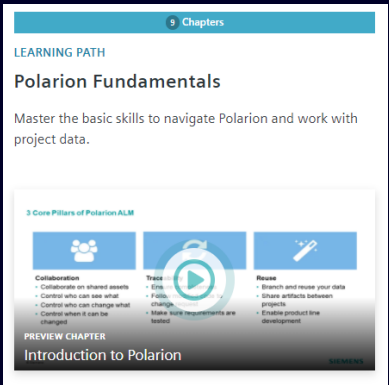
Requirements Management using V-model

or

Polarion: Managing and controlling your project data

\+ Test Management

→ 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

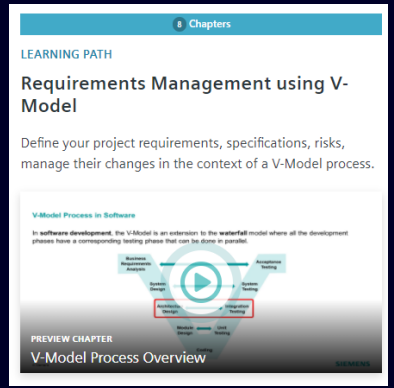
Managing your Live Docs

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

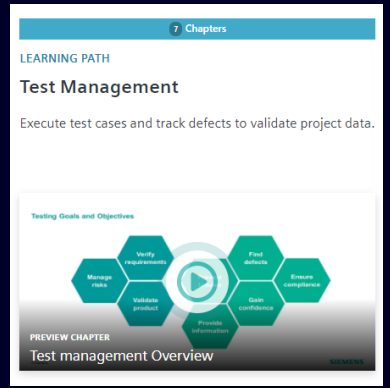
Managing Software Requirements

Managing Risks

Managing Changes

Building Software

Managing Variants



Test Management Concepts

Test Planning

Test Analysis and Design

Test Execution

Test Automation

Defect Management

SIEMENS

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 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.

SIEMENS

MindSphere Associate → At a Glance

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		

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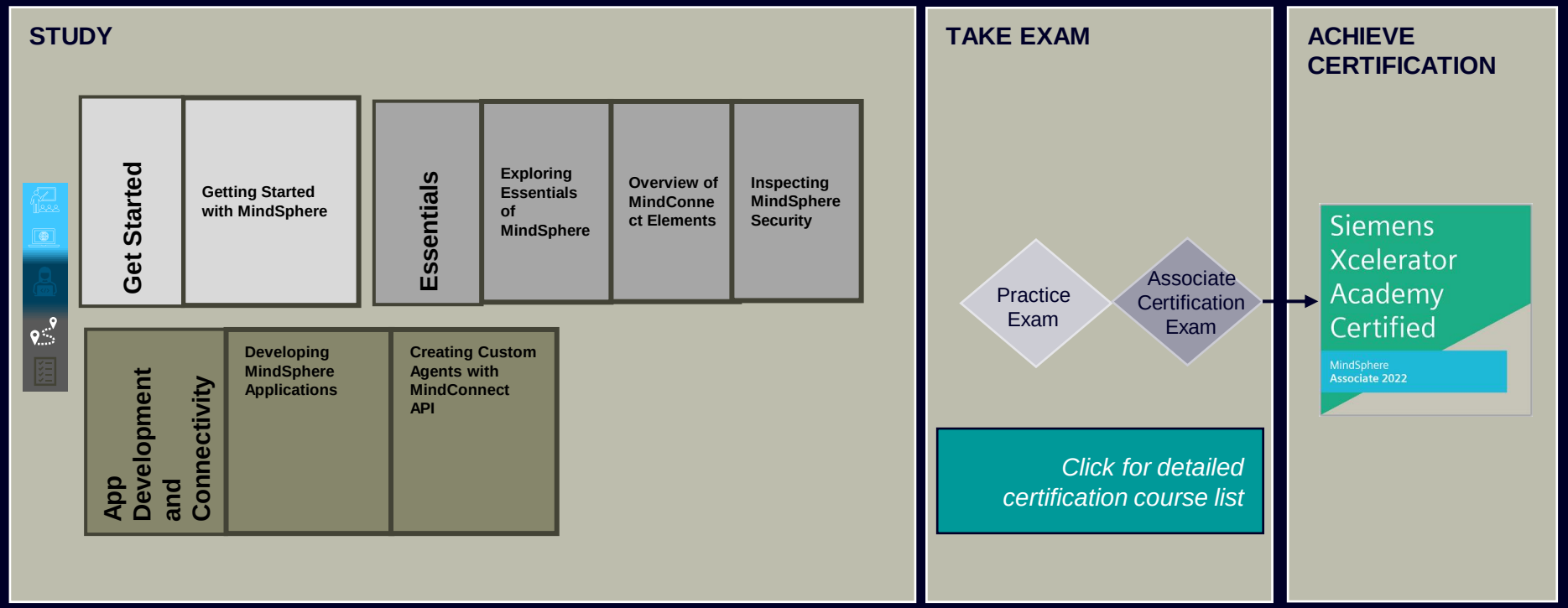
Become a MindSphere Associate → At a Glance



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: MindSphere Associate

MindSphere Associate Certification

Introduction to MindSphere (0.5 day)	MindSphere Essentials (2 day)			MindSphere App Development and Connectivity (3 days)	
Getting Started with MindSphere	Exploring Essentials of MindSphere	Overview of MindConnect Elements	Inspecting MindSphere Security	Developing MindSphere Applications	Creating Custom Agents with MindConnect API
Discovering the Industrial Internet of Things	Exploring MindSphere Fundamentals	Overview of MindConnect Elements	Introduction to MindSphere Security	Exploring Cloud Foundry	Introducing MindConnect API
Exploring the MindSphere Ecosystem	Exploring MindAccess Plans		MindConnect Security	Developing Applications for MindSphere	Getting Ready for MindConnect API
Introducing the MindSphere Portfolio	Creating the IoT Data Model for MindSphere		MindSphere System Security	Using the Asset Management Service	Creating a Custom Agent with MindConnect API
Revealing the Potential of MindSphere	Managing a MindSphere Tenant		MindSphere App Security	Using Time Series, Aggregate and Event Management APIs	Exchanging Data with MindConnect API
					Using the Diagnostic Service

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Xcelerator Academy Learning Maps
Your learning: At a Glance

MES

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APS

RD&L

Quality

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 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.

SIEMENS

Opcenter Ex Core Associate → At a Glance

LEARN THE PLATFORM

Team Members

- Introduction to Opcenter Execution Core
- Configuring the Factory Model in Opcenter Core
- Managing Resources in Opcenter EX Core
- Utilizing Features to Expand the Factory Model

MEDICAL DEVICE & DIAGNOSTICS

Team Members

- Exploring Medical Device & Diagnostics Features

INSTALL AND ADMINISTRATION

Installers

- Opcenter Execution Core Platform Administration

Install to perform system administration and troubleshooting

CUSTOMIZE

Designers / Developers

- Portal Studio Developer
- Object Design

Customize and extend the functionality

Instructor-led training | On-demand training library | Xcelerator Academy Membership | Learning Journey | Standalone Certification Exam | Optional

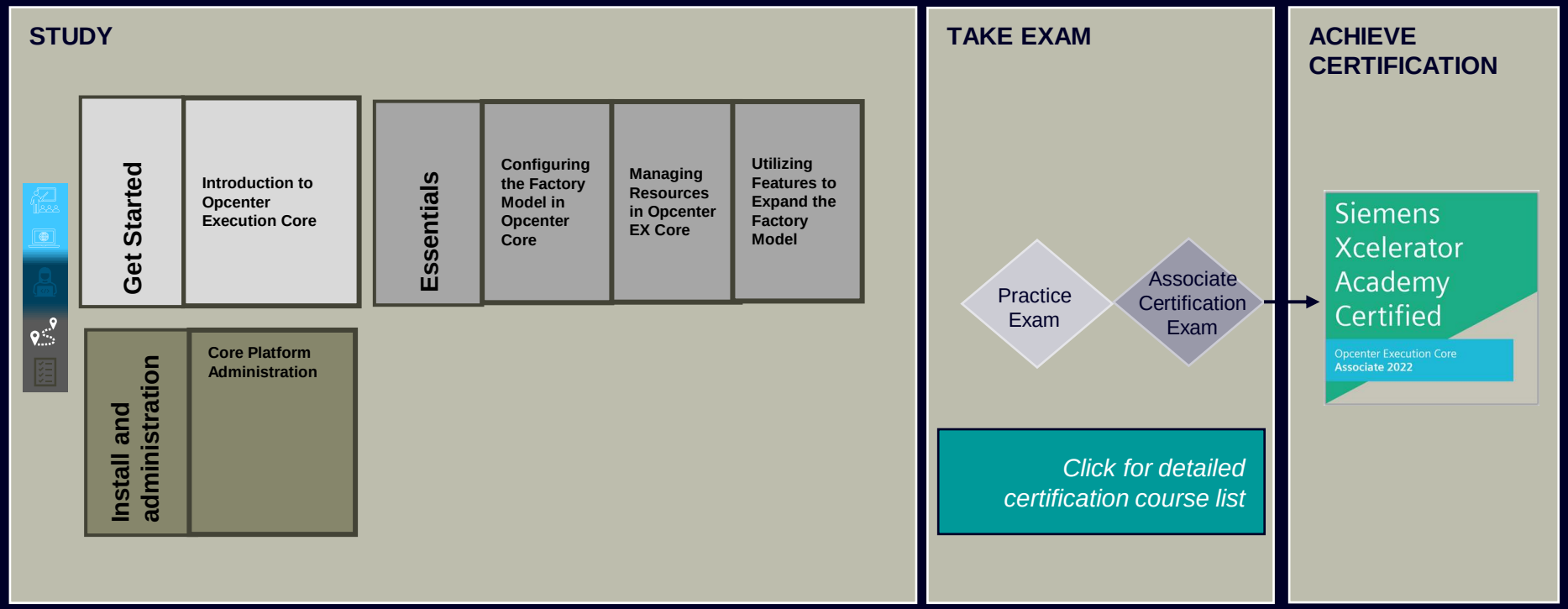
**Virtual lab environment included in offer

Add-on vLab hours available for purchase

**Virtual lab environment included in offer

SIEMENS

Become a Opcenter Ex Core Associate→ At a Glance



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: Opcenter Ex Core Associate

Opcenter Execution Core Associate Certification

Getting Started with Opcenter Execution (1 day)	Opcenter Execution Essentials (3 days)			Opcenter Execution Installation
Introduction to Opcenter Execution Core	Configuring the Factory Model in Opcenter Core	Managing Resources in Opcenter EX Core	Utilizing Features to Expand the Factory Model	Core Platform Administration
Overview of Opcenter	Creating the Factory Model	Introduction to Resource Management	Controlling Material Issue in Opcenter	Opcenter Execution Administration Platform Overview
Navigating the Portal Interface	Configuring WIP Tracking, Products and Containers	Configuring Resource Management	Configuring and Executing Electronic Procedures	Installation and Configuration
Controlling Login & Security	Modeling the Workflow	Executing Resource Transactions	Managing Documents within Opcenter Core	Software Updates & Data Migration
Exploring Portal Studio Developer	Accessing information within Opcenter	Using the Resource Audit Trail	Performing Data Collection	Best Practices and Review
	Executing Shop Floor Transactions		Configuring WIP Messaging	
			Creating a Bill of Process	

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Xcelerator Academy Learning Maps
Your learning: At a Glance

MES

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APS

RD&L

Quality

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 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**.

SIEMENS

Teamcenter Quality Associate → At a Glance

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

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

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

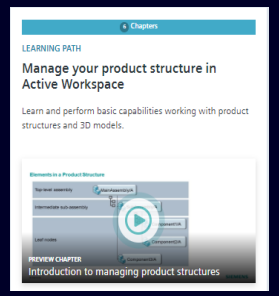
**Virtual lab environment included in offer | Add-on vLab hours available for purchase

Complete Course List: Teamcenter Quality Associate Certification

Teamcenter Quality

Pass the exam

Siemens Xcelerator Academy Certified
Teamcenter Quality Associate 2022



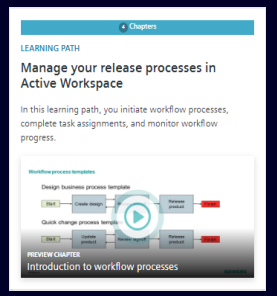
Open and view product structures

Create and edit product structures

Analyze product structures

Classify product data (including eCl@ss)

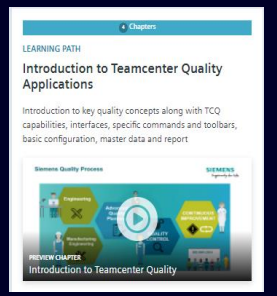
Search for classified objects



Approve and Release Data

Initiate a Workflow

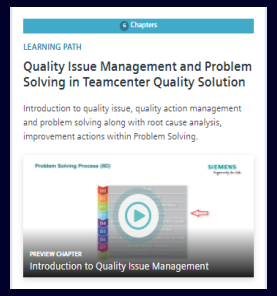
Managing Workflow Task Assignment



AWC Teamcenter Quality Fundamentals

Authoring TCQ

TCQ Reporting



Quality Issue Management Introduction to Problem Solving

Performing a root cause analysis within the Problem Solving (D4)

Introduction and monitoring of improvement actions within Problem Solving (D5/D6/D7)

Closure (D8) and Creation of an 8D report

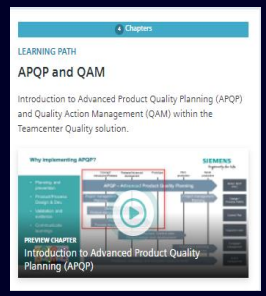
Introduction to FMEA and FMEA Structure analysis

FMEA Functional analysis

FMEA Failure analysis

FMEA risk analysis and optimization

FMEA result documentation



Introduction to APQP

APQP Check-list

APQP Quality Action Management

Introduction to Control and Inspection Plan

Create a Control Plan

Manage a Control and Inspection Plan - Advanced use cases

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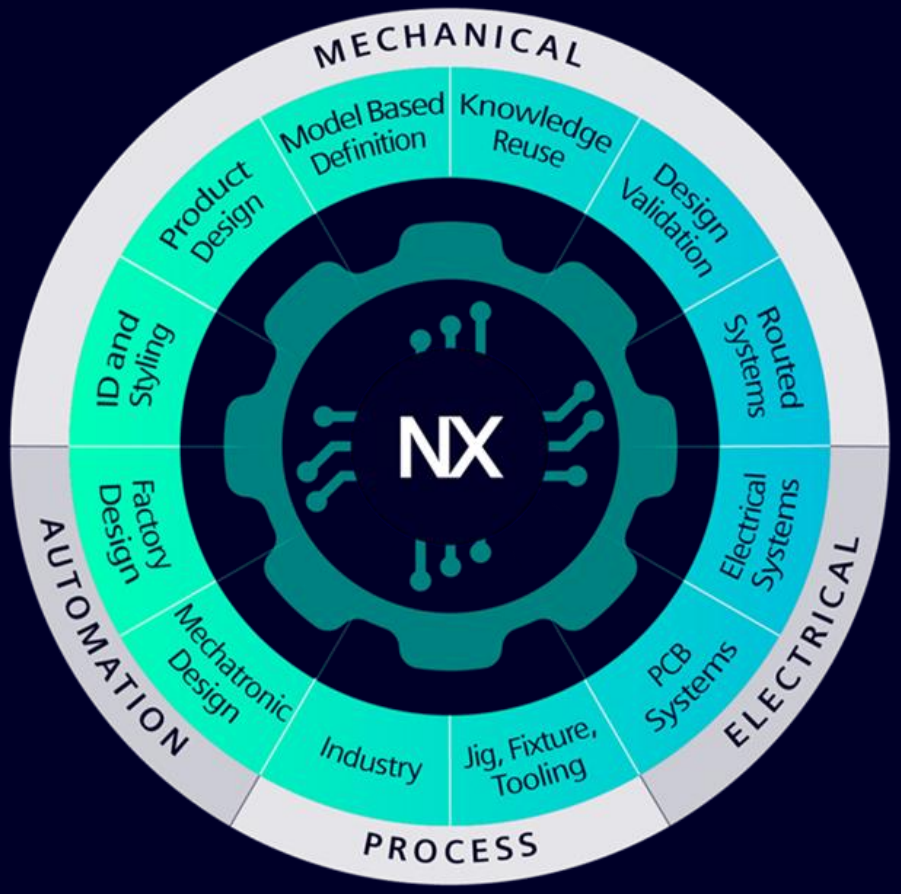
Xcelerator Academy Learning Maps
Your learning: At a Glance



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

NX Design → At a Glance

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

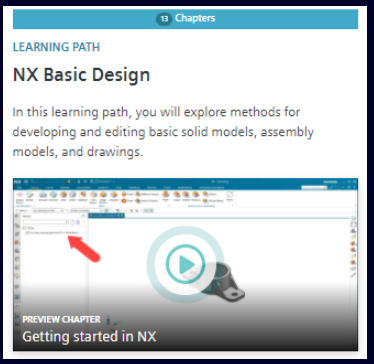
Complete Course List: NX Core Associate Certification

Designing Parts in NX + Intermediate NX Design & Assemblies

or

NX Essentials

→ Pass the exam → Siemens Xcelerator Academy Certified — NX Design Certified Associate 2022



NX user interface

Create a basic part

Organize and display part models

Create cylindrical parts using sketches

Add finishing details

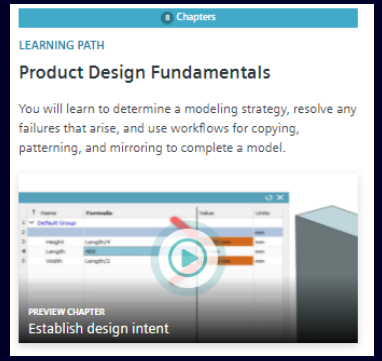
Simple changes and part interrogation

Basic part edits using synchronous

Analyze existing assemblies

Bottom-up assembly

Create a basic part drawing



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

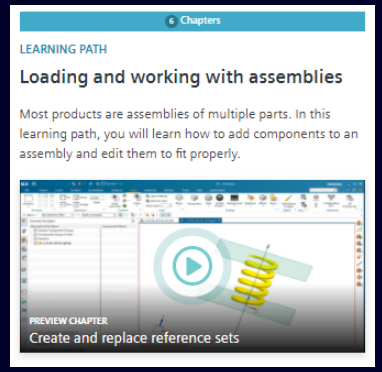
Create molded parts

Build basic parts using surfaces

Build robust models

Data translators

Edit non-parametric models



Manage assemblies

Configure an assembly

Create reusable components

View component interaction using sequencing

Top-down modeling

Link geometry between related parts

Create expression links between parts

Revise assemblies

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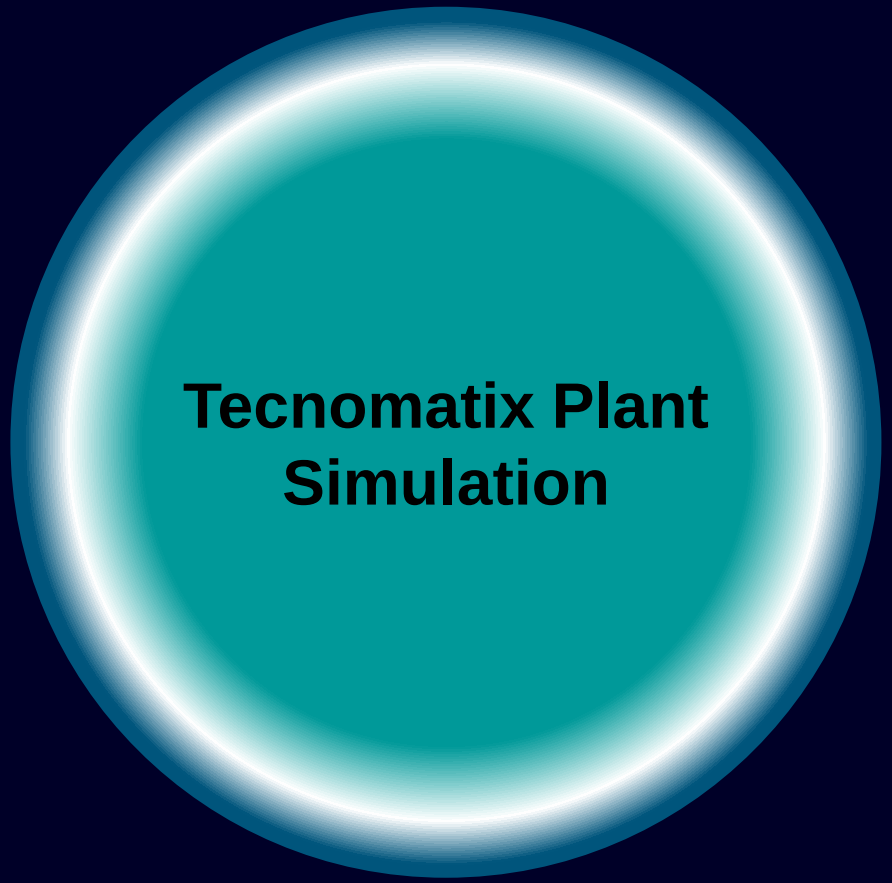
Xcelerator Academy Learning Maps
Your learning: At a Glance



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 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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Tecnomatix Plant Simulation → At a Glance

LEARN BASIC SIMULATION ENGINEER

End user

- Introduction to simulation studies
- Perform a basic simulation study
- Extend a model to include more realistic, modular components
- Extend a model to include conveyors and workers
- Extend a model to include presentation collateral
- Extend a model to include custom logic (methods)
- Set up 3D objects

Plant Simulation Associate Certification

Click for detailed certification course list

LEARN ADVANCED SIMULATION ENGINEER

End user

- Create models using advanced modeling techniques
- Exchange data with Plant Simulation using Teamcenter, virtual commissioning, and more
- Perform advanced optimization and experimentation

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		

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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

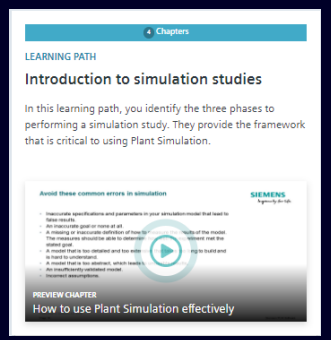
Complete Course List: Tecnomatix Plant Simulation Associate Certification

Plant Simulation Basics + Set up 3D objects

or

Tecnomatix Plant Simulation

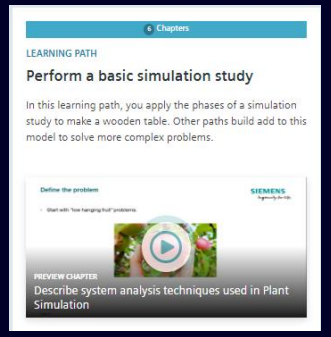
→ Pass the exam → Siemens Xcelerator Academy Certified — Plant Simulation Associate 2022



Overview of Plant Simulation

Get started with Plant Simulation

Explore the Plant Simulation graphical user interface



Define a target, analyze a simple system, and acquire data

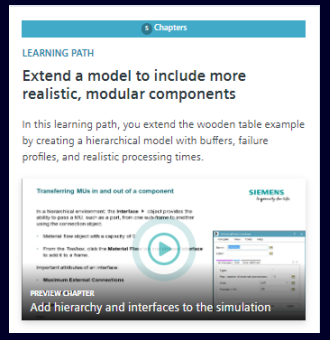
Create a simple model

Validate the throughput of a simple model

Prepare to create a new model from the previous model

Create a more detailed model to produce a better result

Implement basic objects to analyze results



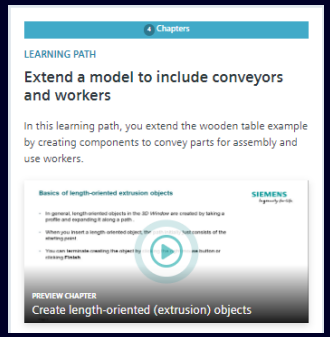
Create a hierarchical model

Identify inherited objects and attributes

Navigate and change 3D viewer visualization

Simulate machine processing time and failures with distributions

Material flow objects with a capacity greater than one

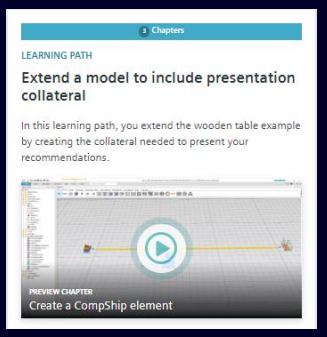


Model length-oriented objects

Setup time, assembly, and dismantle objects

Create user-defined attributes and data tables

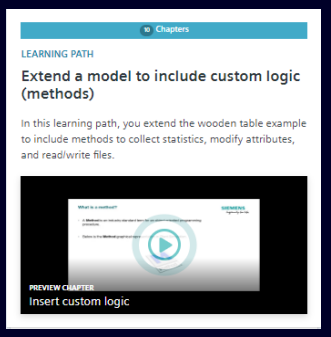
Use basic workers and work shifts



Create experiments and custom reports

Gather time, cost, and power consumption statistics

Add textured plates, point clouds, and backgrounds



Insert custom logic

Use the Method Debugger and anonymous identifiers

Run a method during a simulation

Set attribute values with methods

Access data in tables, lists, and global variables

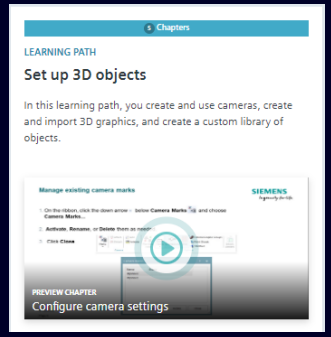
Use distribution functions, use operators, and convert data

Create conditional methods and access the contents of an object

Model transport systems and setup time

Collect statistics with methods

Save and load data into a Plant Simulation table



Setup and use cameras

Import and create a library of 3D objects

Create MU animation and animatable objects

Customize 3D objects with methods

Use advanced worker techniques

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Xcelerator Academy Learning Maps
Your learning: At a Glance

Tecnomatix Process Simulate

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 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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Tecnomatix Process Simulate → At a Glance

LEARN PROCESS SIMULATE ESSENTIALS

End user

- Identify Process Simulate basics
- Define Process Simulate study data, geometry, and kinematics
- Develop and simulate Process Simulate robotic paths
- Develop Process Simulate object flow simulations
- Develop Process Simulate human simulations

Process Simulate Associate Certification

Siemens Xcelerator Academy Certified — Process Simulate Standalone Associate 2022

Click for detailed certification course list

LEARN ABOUT OBJECT FLOW SIMULATIONS

Digital Assembly Validation Engineer

- Process Simulate basics and object flow simulation

LEARN ABOUT HUMAN REACH CHECKS, SIMULATIONS

Human Simulation Engineer or Ergonomist

- Process Simulate basics and Human simulation

LEARN ABOUT ROBOTICS REACH CHECKS, SIMULATIONS

Robot simulation Engineer

- Develop Process Simulate robotic and automation event-based simulations (CEE)
- Perform Off-line programming for robots with Process Simulate
- Perform advanced customization of Process Simulate robot specific controllers
- Setup and perform Process Simulate virtual commissioning (VC)
- Process Simulate basics and robotic path development
- Install, use, and customize Process Simulate robot specific controllers for off-line programming (OLP)

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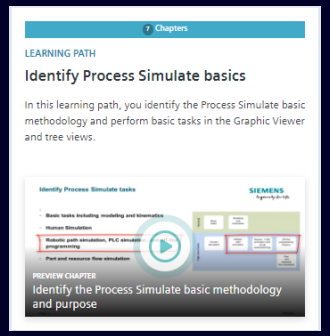
Instructor-led training	On-demand training library	Xcelerator Academy Membership
**Virtual lab environment included in offer		Add-on vLab hours available for purchase

Complete Course List: Tecnomatix Process Simulate Standalone Associate Certification

Process Simulate basics, modeling, and kinematics + Process Simulate basics and robotic path development + Develop Process Simulate object flow simulations + Develop Process Simulate human simulations → Pass the exam → Siemens Xcelerator Academy Certified – Process Simulate Standalone Associate 2022

or

Tecnomatix Process Simulate Standalone → Pass the exam → Siemens Xcelerator Academy Certified – Process Simulate Standalone Associate 2022



Identify basic concepts for PS on eMS Standalone

Identify Process Simulate basics

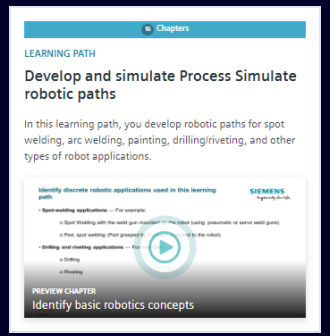
Identify basic tools in Process Simulate environment (part 1)

Identify basic tools in Process Simulate environment (part 2)

Identify the placement commands

Use kinematics to create operations

Detect collisions



Define part-in-tool robot spot welding paths

Adjust welds in spot welding paths

Define part-on-robot spot welding paths

Search for spot weld guns and use servo guns

Define robotic drilling and riveting paths

Define robotic material handling paths

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Define robotic paint continuous feature paths

Define other robotic continuous feature paths

Test robot reach and set basic robotic path attributes

Add via locations to avoid collisions

Identify other path modification and creation tools

Identify location attributes for multiple robot interlocking

Create swept volumes, interference zones, and events

Examine other robotic path modification tools and techniques

Create object flow simulative operations

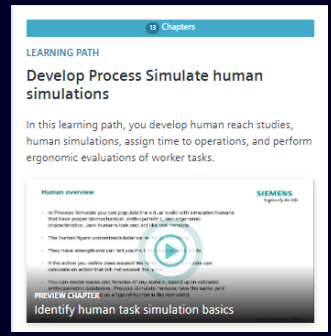
Create locations in object flow simulative operations

Modify locations in object flow simulative operations

Create sequences of object flow simulative operations

Use presentation mode, event creation, and movie manager

Simulate hand tools and virtual reality



Identify the human model and human simulation options

Create basic human operations

Create human operations using Task Simulation Builder (TSB)

Create human operations using other automatic posture tools (part 1)

Create human operations using other automatic posture tools (part 2)

Create and view ergonomic reports (part 1)

Create and view ergonomic reports (part 2)

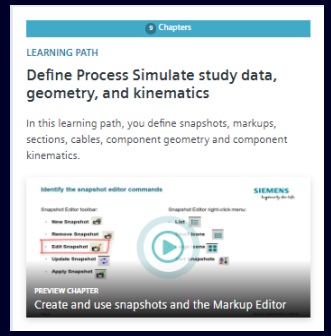
Assign a duration to human operations

Identify other Process Simulate human tools

Use traditional techniques to create human simulations (part 1)

Use traditional techniques to create human simulations (part 2)

Examine features related to body and hand motion capture



Create snapshots, markups, notes, and pictures

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Xcelerator Academy Learning Maps
Your learning: At a Glance

Tecnomatix Process Simulate on Teamcenter

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 PROCESS SIMULATE ESSENTIALS

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

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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**.

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Tecnomatix Process Simulate → At a Glance

LEARN PROCESS SIMULATE ESSENTIALS

End user

- Getting started with Process Simulate on Teamcenter
- Identify Process Simulate basics
- Define Process Simulate study data, geometry, and kinematics
- Develop and simulate Process Simulate robotic paths
- Develop Process Simulate object flow simulations
- Develop Process Simulate human simulations

Identify Teamcenter and Manufacturing Process Planner basics for Process Simulate

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

Digital Assembly Validation Engineer

- Process Simulate basics and object flow simulation

LEARN ABOUT HUMAN REACH CHECKS, SIMULATIONS

Human Simulation Engineer or Ergonomist

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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: Tecnomatix Process Simulate on Teamcenter Associate Certification

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

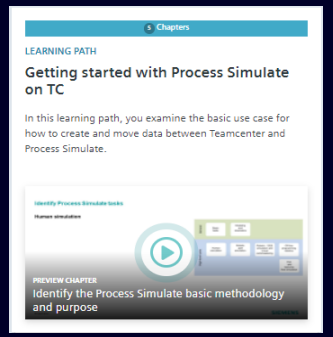
**Virtual lab environment included in offer

Add-on vLab hours available for purchase

or Getting started with Process Simulate on Teamcenter + Process Simulate basics, modeling, and kinematics + Process Simulate basics and robotic path development + Develop Process Simulate object flow simulations + Develop Process Simulate human simulations → Pass the exam → Siemens Xcelerator Academy Certified

Process Simulate for Teamcenter Associate 2022

Tecnomatix Process Simulate on Teamcenter



Identify basics for Process Simulate on Teamcenter users

Identify steps in Teamcenter Manufacturing Process Planner required for Process Simulate on Teamcenter

Identify Process Simulate basics (PS on TC)

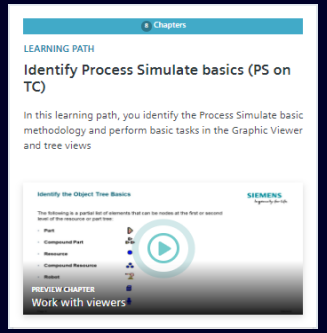
Identify the connection between Process Simulate on Teamcenter and Manufacturing Process Planner

Use the basic Teamcenter environment

Introduction to MPP and MBM

Create and use collaboration context objects

Manage and validate studies



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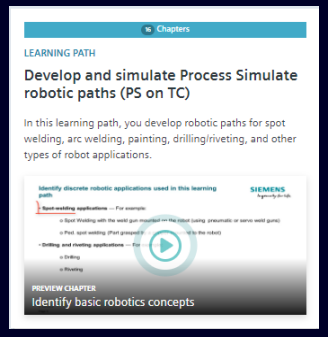

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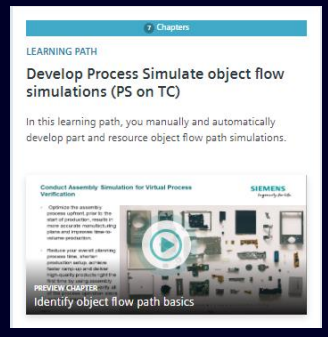

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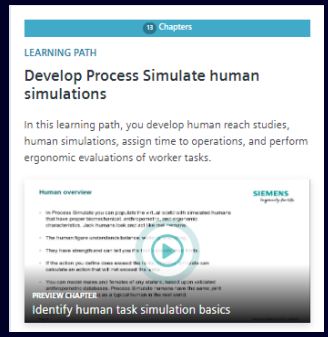

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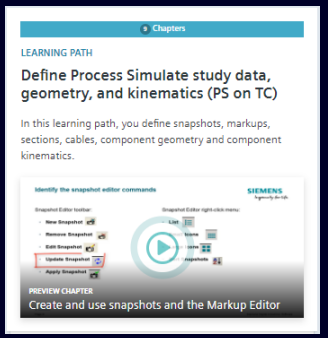

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Xcelerator Academy Learning Maps
Your learning: At a Glance

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.

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NX CAM → At a Glance

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		

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Complete Course List: NX CAM Manufacturing Engineer Associate Certification

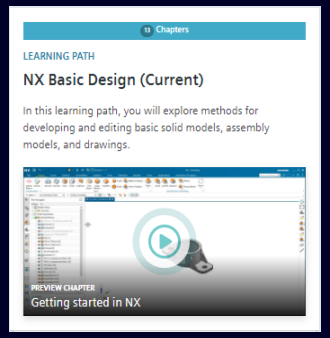
Instructor-led training	On-demand training library	Xcelerator Academy Membership
**Virtual lab environment included in offer		Add-on vLab hours available for purchase

Manufacturing Basics + Fixed and Multi-axis Machining

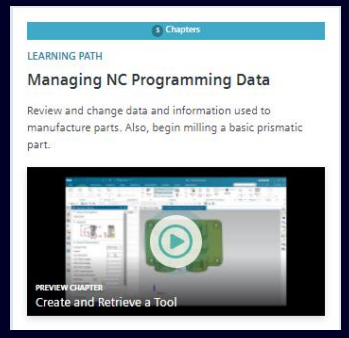
or

NX CAM Manufacturing Engineer

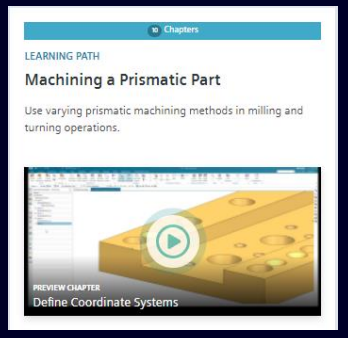
→ Pass the exam → Siemens Xcelerator Academy Certified — NX CAM Manufacturing Engineer Associate 2022



- 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 building
- Create a basic part drawing
- Using legacy sketch with NX 2007

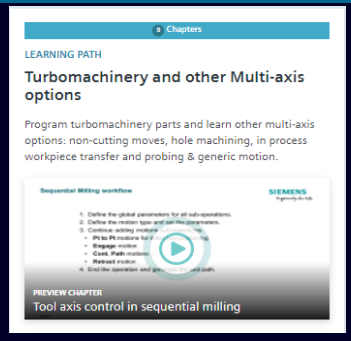


- Study Manufacturing process and create manufacturing setup
- Create and structure an NC program
- Examine a manufacturing part
- Create and structure NC documents



- Cavity Milling
- Use Coordinate Systems in Manufacturing
- Visualize Tool Paths
- Non Cutting Moves
- Planar Milling
- Hole Making
- Fixed Axis Contouring
- Additional Prismatic Operation Types
- Using Additional Machining Functionality

- Plunge milling and z-level milling
- Fixed-axis contouring
- 4 and 5-axis machining and 5-axis Z-level
- Variable Axis Contour Milling
- Profiling walls with a variable axis



- Turbomachinery Milling
- Sequential Milling
- Associative Machining Geometry
- Hole Machining
- In process Workpiece transfer
- Probing and Generic Motion
- Projects

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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 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**.

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Additive Manufacturing Designer→ At a Glance

LEARN THE ESSENTIALS

Additive Manufacturing Designer

- Introduction to Additive Manufacturing
- Component Design for Additive Manufacturing
- Polygon Modeling and Reverse Engineering

Use Additive Manufacturing Designer!

Additive Mfg. Designer Associate Certification

Siemens Xcelerator Academy Certified
Additive Manufacturing Designer Associate 2022

Click for detailed certification course list

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 DEPOSITON OPERATIONS

Multi-axis Deposition Mfg. Engineer

- Managing NC Programming Data
- Multi-axis Additive Manufacturing

Support additive manufacturing on various deposition machines

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

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

Course List: Additive Manufacturing Designer Associate Certification

Additive Manufacturing

Introduction to Additive Manufacturing Processes

Additive Manufacturing in NX

Additive Manufacturing and the Product Development Lifecycle

Additive Manufacturing Tradeoffs and Strategy

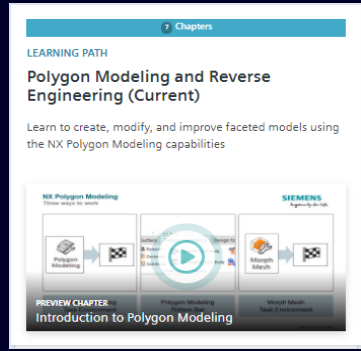
Introduction to Component Design for Additive Manufacture

Useful Modeling Techniques for Additive Manufacturing

Designing with Lattices

Designing with Scanned Geometry

Generative Design and Topology Optimization



Introduction to Polygon Modeling – 1953

Using the Polygon Modeling Task Environment – 1953

Using the Polygon Modeling Ribbon Bar – 1953

Using the Polygon Modeling Morph Mesh Task Environment – 1953

Reverse Engineering - 1953

Pass the exam → Siemens Xcelerator Academy Certified – Additive Manufacturing Designer Associate 2022

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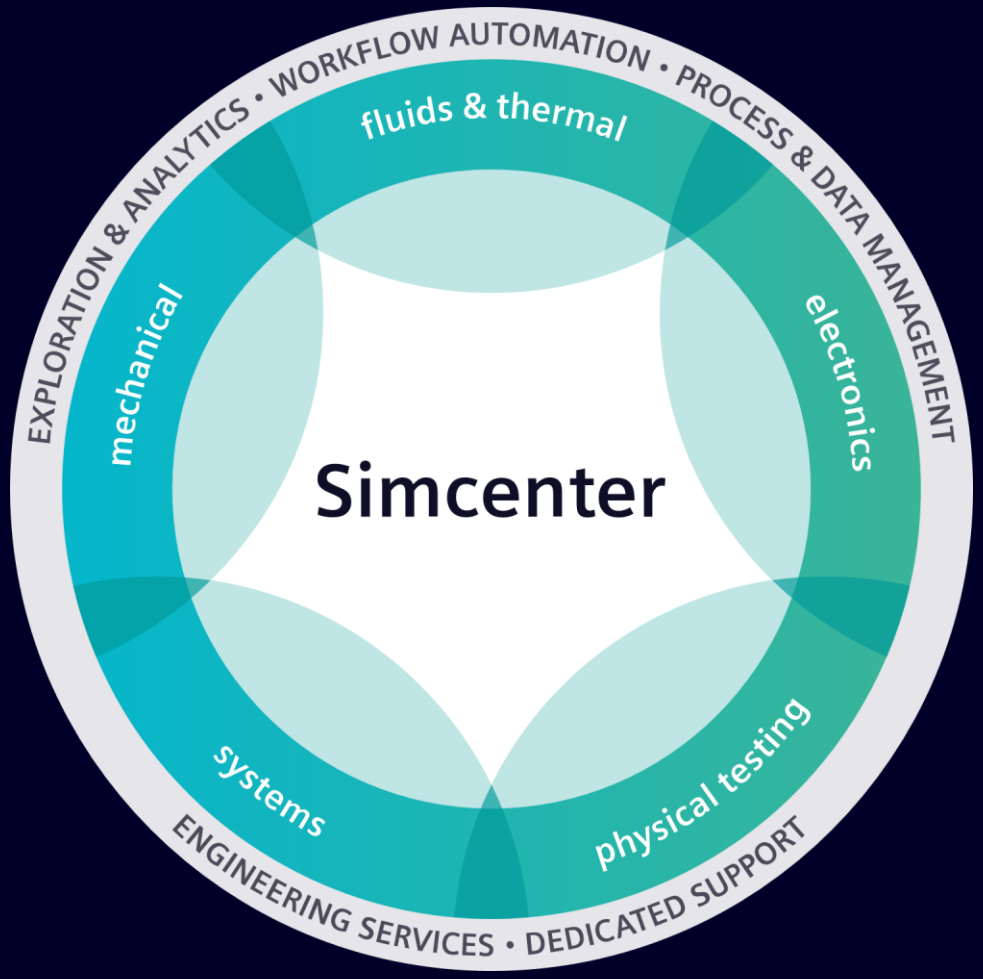
Xcelerator Academy Learning Maps
Your learning: At a Glance



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	

SIEMENS

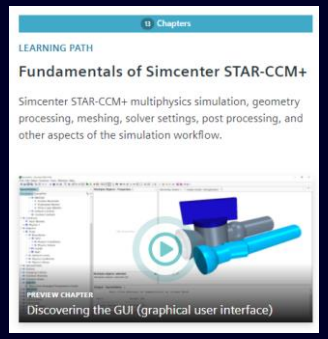
Instructor-led training	On-demand training library	Xcelerator Academy Membership
**Virtual lab environment included in offer		Add-on vLab hours available for purchase

Complete Course List: Simcenter 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+ → Pass the exam → Siemens Xcelerator Academy Certified – Simcenter Star-CCM+Certified Associate 2022

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

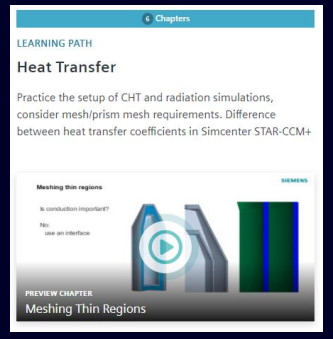
Analyzing data

Advanced analysis

Moving with reference frames

Effective simulations

Planning the simulation workflow effectively



Heat Transfer Introduction

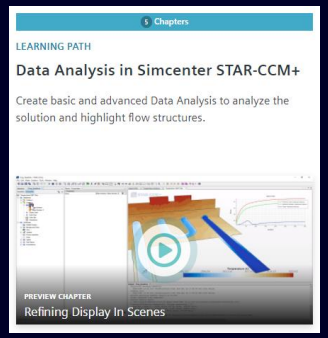
Workflow Heat Transfer

Solar Radiation

Advanced Heat Transfer

Heat Transfer Coefficients

Thermal Radiation



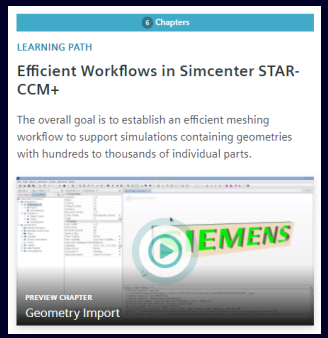
Fundamental plotting

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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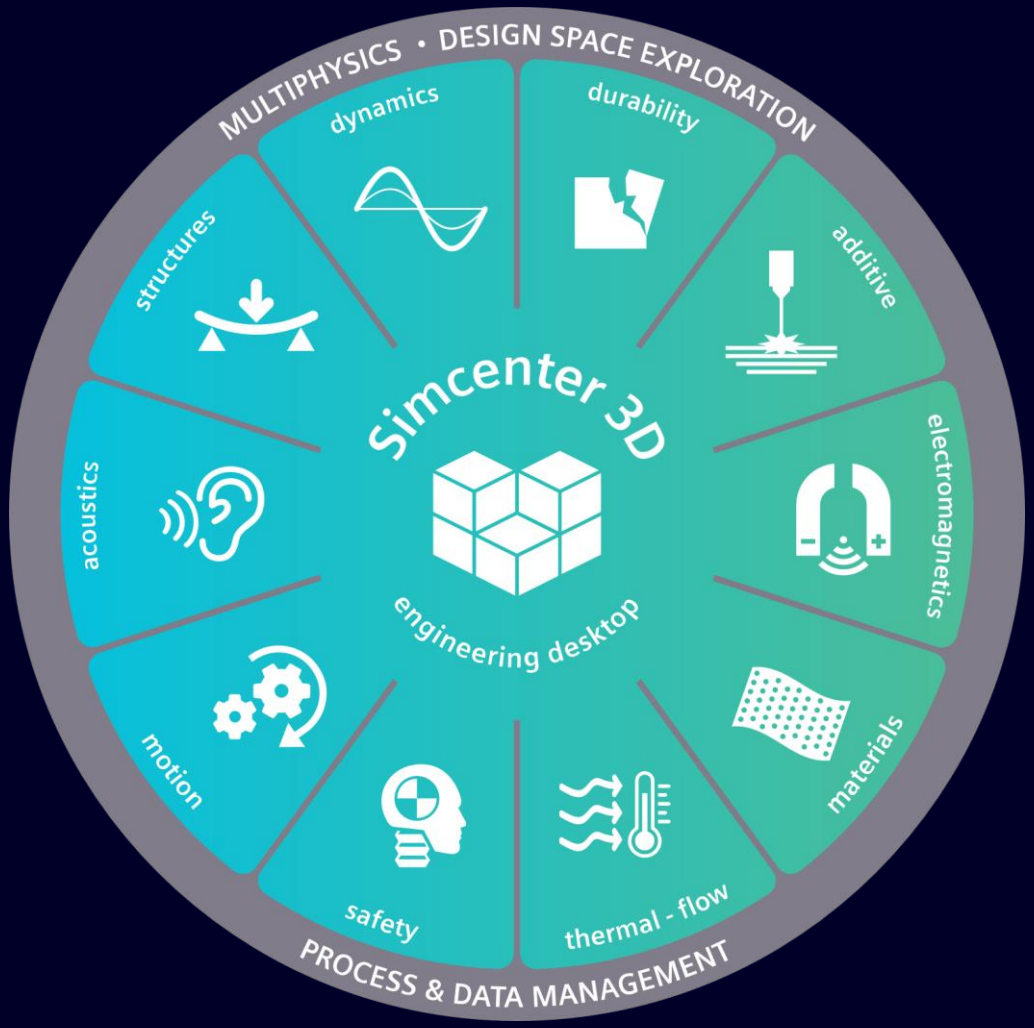
Xcelerator Academy Learning Maps
Your learning: At a Glance



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.

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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	

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Complete Course List: Simcenter 3D Associate

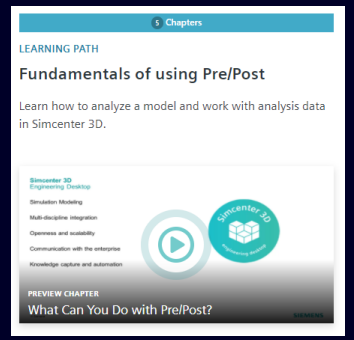
Instructor-led training	On-demand training library	Xcelerator Academy Membership
**Virtual lab environment included in offer		Add-on vLab hours available for purchase

Simcenter 3D Pre/Post + Pre/Post Processes and Solutions

or

Simcenter 3D Pre/Post

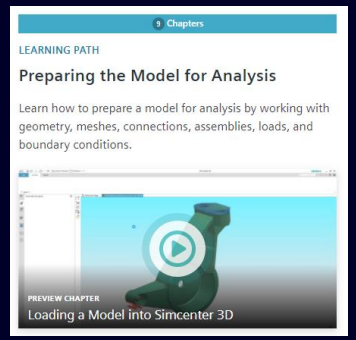
→ Pass the exam → Siemens Xcelerator Academy Certified — Simcenter 3D Certified Associate 2022



Analyze a model in Simcenter 3D

Simcenter 3D files

Simcenter 3D Pre/Post user interface



Prepare geometry

Mesh a model

Model connections

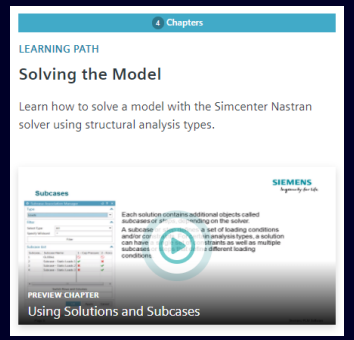
Model assemblies

Apply boundary conditions

Define variable conditions and properties

Model symmetry

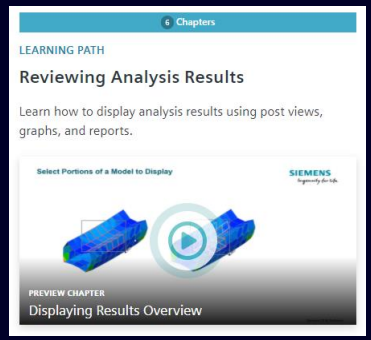
Check the model and resolve problems



Set up a structural analysis

Run a structural analysis

Run a nonlinear analysis



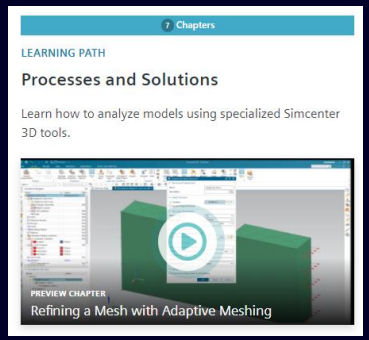
Display results

Manipulate results data

Graph results

Save and restore views

Generate results



Improve mesh quality

Run a superelement analysis

Run a thermal analysis

Optimize model design

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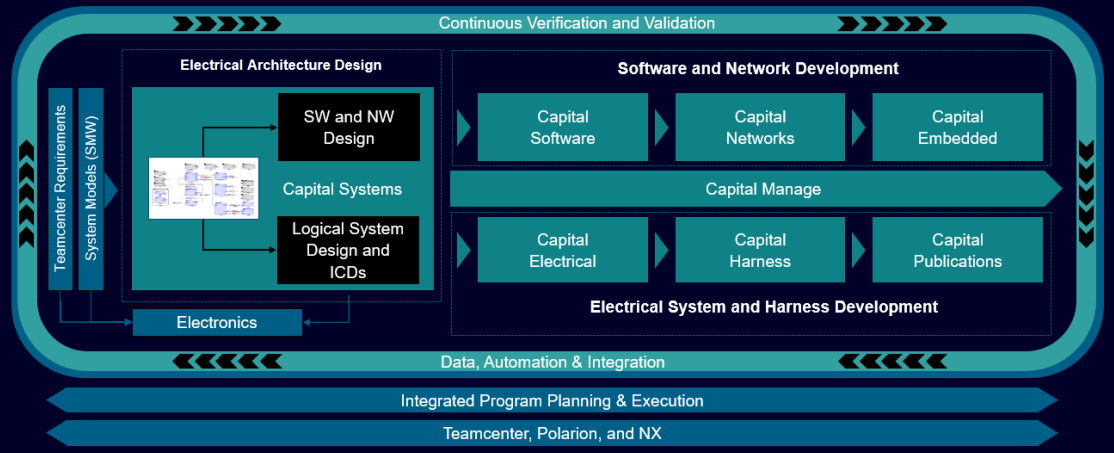
Xcelerator Academy Learning Maps
Your learning: At a Glance



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 CONNECTIVIY 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**.

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Capital Logic Designer → At a Glance

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		

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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

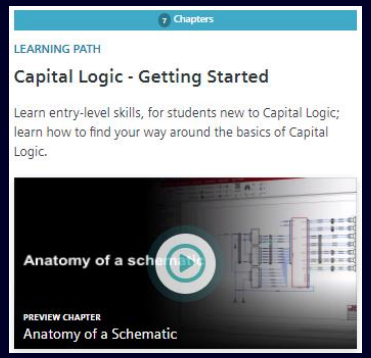
Course List: Capital Logic Designer Associate Certification

Capital Logic Designer - Interactive

or

Connectivity (Foundation)

→ Pass the exam →



Capital Logic – Introduction

Capital Logic – Getting Started

Capital Logic – Basics

Capital Logic – Creating Multiple Device Connector Net and Wire Instances

Capital Logic – Pin Management

Capital Logic – Diagram Editing

Capital Logic – Complexity

Capital Logic – Advanced Wiring

Capital Logic – Library Parts

Capital Logic – Main Lab

Capital Logic – Concurrency

Capital Logic – Configuration Management

Report Builder – Create Custom Reports, Inspectors and Diagram Tables

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