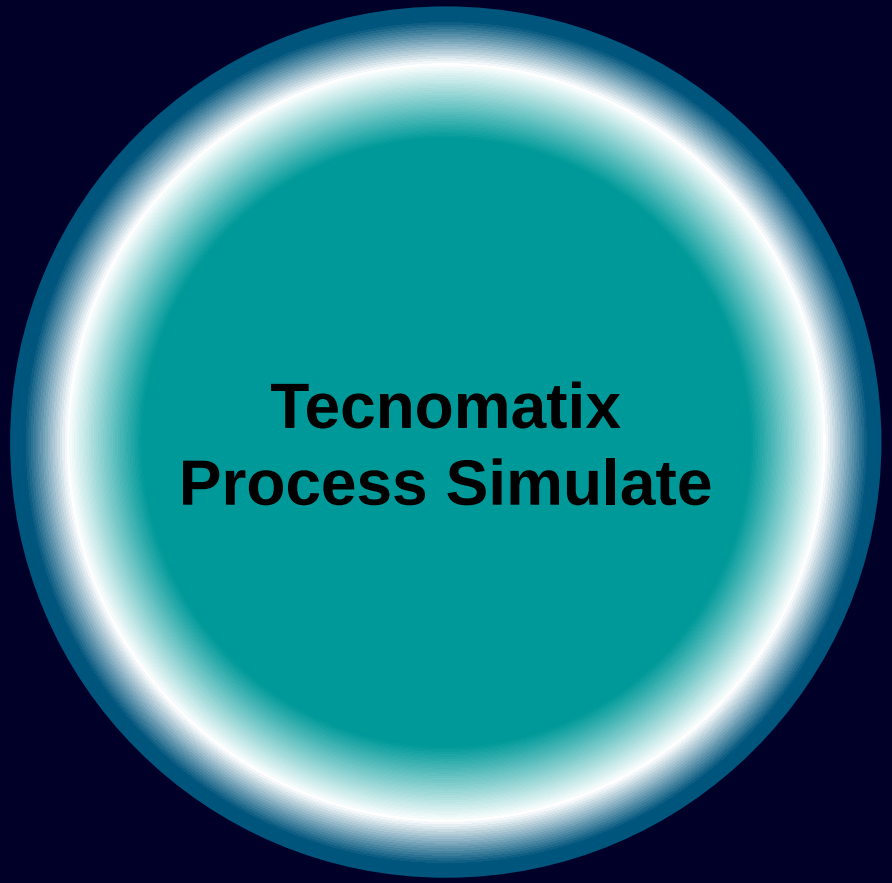
Xcelerator Academy Learning Maps
Your learning: At a Glance



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 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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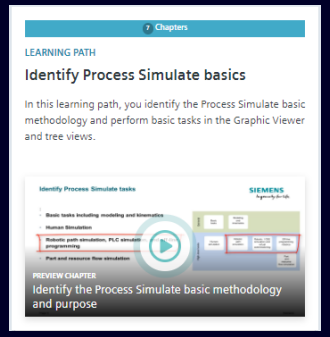
Complete Course List: Tecnomatix Process Simulate Standalone Associate Certification

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

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

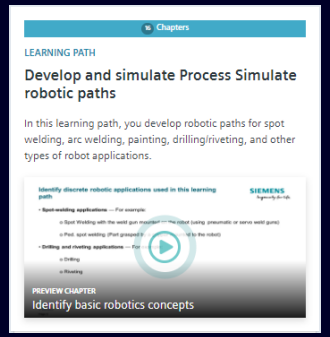
Identify basic tools in Process Simulate environment (part 1)

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

Define robotic arc welding continuous feature paths

Define robotic paint continuous feature paths

Define other robotic continuous feature paths

Test robot reach and set basic robotic path attributes

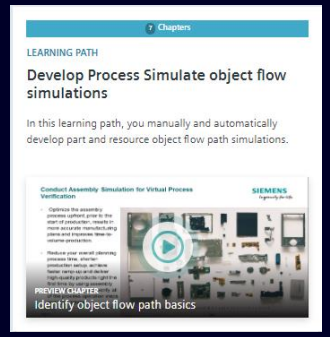
Add via locations to avoid collisions

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

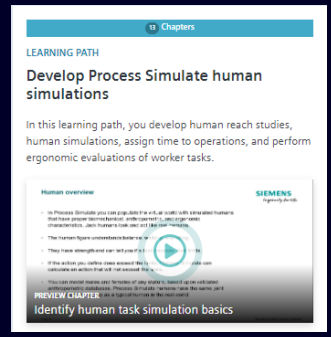
Create locations in object flow simulative operations

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)

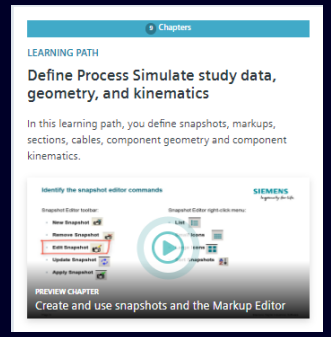
Assign a duration to human operations

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

Create sections and define cables

Import component geometry

Model geometry in Process Simulate

Define basic kinematics in Process Simulate

Define basic kinematic cranks and robotic tools

Define basic robot kinematics

Define advanced kinematics, rails, gantries, and positioners

Define advanced kinematic functions, compound equipment, and motion parameter files

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