SIEMENS

Machine Simulation in Kinematics (WS-DR)

Short Description

Machine Simulation in Kinematics is a practical, one-day workshop focused on the digitalization and simulation of kinematic systems such as cartesian portals, delta pickers and industrial robots. You will discover how the Siemens Xcelerator approach helps optimize your entire system – from digital twins and motion simulation to data-driven efficiency improvements. Simulation and virtual commissioning help reduce engineering effort, project risks and commissioning time.

Objectives

After completing this workshop, you will be able to:

- Understand the benefits of integrated kinematics and simulation-based optimization
- Apply virtual commissioning to validate kinematic behavior early in the engineering phase
- Use simulation to analyze motion behavior, interactions and system dynamics
- Implement robot applications in a standardized and manufacturer-independent way
- Accelerate engineering workflows using reusable software libraries

Content

The workshop combines a short theoretical introduction with extensive hands-on exercises and covers the following topics:

- Introduction to machine and kinematic simulation
- Benefits of integrated kinematics within the Siemens automation environment
- Simulation-based optimization and virtual commissioning
- Hands-on work with the Software toolbox for Handling & Robotics – SIMATIC Robot Control Suite
- Use of the SIMATIC Robot Integrator and its libraries
- Simulation and validation using the SIMATIC Robot Simulator
- Manufacturer-independent and uniform standardized programming of industrial robots
- Virtual testing of kinematic systems, from design to validation

Note

For 1 workshop, you pay **220 euros (excl. VAT)**.
If you combine **2 workshops of a full day**, you pay **370 euros (excl. VAT)** for both.
A saving of no less than **70 euros**!

Type

Face-to-face training

Duration

1 day

Language

en, fr, nl

Fee

220 EUR