

Basics of Digitalization in Automation (DI-INTRO)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

Face-to-face: 3 Days ; Virtual: 3 Days (Schedule varies)

2 CEUs

Target Group

- Engineers
- Sales
- Commissioning Engineers

Short Description

Today's technologies are so complex that training on the software and the appropriate training equipment is almost indispensable to keep up to date. This course gives you an overview of the latest technical developments in the field of discrete automation.

Objectives

- Understand the latest technical developments in the field of discrete automation
- Know the technologies to efficiently exploit the opportunities offered by digitalization in your company
- Evaluate these ideas and solutions and make informed decisions for the future of your business

Content

- Standardization as the basis of digitalization
- Continuous Integration – methods and processes to optimize software development while improving the quality of deliverables
- Multiple users working together on a project
- Versioning and automated testing
- Engineering Automation Workflow (TIA Openness, TIA Add-Ins, SiVArc)
- Simulation at machine level (PLCSIM Advanced, SIMIT, NX MCD)
- Simulation at line and plant level (Simcenter/Amesim, Tecnomatix Process Simulate & Plant Simulation)
- Machine connectivity and integration (OPC UA, MQTT, PROFINET TSN, 5G)
- Industrial IoT & IT/OT convergence
- Cybersecurity



Language

English

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