

SIMOTION and SINAMICS S120 - Diagnostics and Service (MC-SMO-DG)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4.5 Days

3 CEUs

Target Group

- Programmers
- Commissioning Engineers
- Maintenance Technicians

Short Description

This course is intended to provide knowledge and skills related to SIMOTION systems as it pertains to commissioning, operation, configuration, maintenance, diagnostics, and troubleshooting. It is formatted as a combination of instruction and carefully structured, hands-on exercises. This course will utilize the D425-2 DP/PN motion control module and the SINAMICS servo drive controller for all exercises. The skills acquired will be portable to SIMOTION C-based and P-based controllers.

Objectives

- Locate modules, terminals, options, and features of the SIMOTION Controller and the SINAMICS S120 Drive
- Commission the SINAMICS servo controller for use with SIMOTION
- Upload, back-up, and download projects to SIMOTION and SINAMICS
- Create, document, test, and troubleshoot a SIMOTION program
- Create and monitor system variables
- Interpret diagnostic codes and messages

Content

- SIMOTION and SINAMICS construction, options, and features
- Commissioning SINAMICS and SIMOTION
- SIMOTION Execution System
- Configuring axes - Drive optimization and SCOUT configuration
- Programming in MCC, Ladder, Structured Text
- Monitoring and Troubleshooting User Programs
- Communications and HMI
- Diagnostics and Troubleshooting

- Monitoring the system with IT DIAG

Recommended Prerequisites

[quickSTEP Basics of AC Drives: SSC-QS-2020](#) AND [quickSTEP Basics of AC Motors: SSC-QS-2001](#)

Mandatory Prerequisites

[SINAMICS S120 - Parameterizing and Commissioning with STARTER: DR-S12-PM](#) OR
[SINAMICS S120 Basic Maintenance - STARTER: US-DVS12M1A](#)

Language

English

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