SIEMENS

SIMOTION System Maintenance (US-DVMSYM1A)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4.5 Days
3 CEUs

Target Group

- Maintenance
- Engineer

Short Description

This course is intended for sustainers of Siemens motion-based systems. The goal of this course is to build foundation skills for quick diagnostics, troubleshooting, and repair of the motion system controls. Students will learn the system hardware, basic software tools, and communications to a level necessary to troubleshoot common problems and support system commissioning and operation. This course provides an introduction to the Scout programming and diagnostic environment, and basics of system configuration and programming, tuning, project backup and restoration, diagnostic tools, and other project engineering and maintenance topics.

Objectives

- Commission a SINAMICS S120 drive controller for use with SIMOTION
- Navigate a typical motion systems project and use the software tools, documentation and help system for efficient troubleshooting
- Perform project backup and restoration, and firmware migration
- Properly utilize the various types of motion system tasks, such as the background task, interrupt tasks, cyclic tasks, fault tasks and motion tasks
- Create and monitor system variables
- Interpret diagnostic codes and messages

Content

- SINAMICS Family Overview
- Commissioning and Diagnostic Tool Scout
- SINAMICS Commissioning
- Totally Integrated Automation
- Analog & Setpoint Channels and Control loops
- Closed Loop Control
- The SIMOTION System
- Starting up the SIMOTION control
- Programming in MCC and ladder and testing simple user programs
- Using IT DIAG

Recommended Prerequisites

quickSTEP Basics of AC Drives: SDT-QSBACD AND quickSTEP Basics of AC Motors: SDT-QSBACM

Note

The first 2 days (approximately) are spent on Sinamics and Scout topics, and the latter 2 ½ days are spent on SIMOTION topics. This course is 60%+ hands-on exercises which are targeted at developing skills and building experience with Siemens motion system components.

Language

English