

SINAMICS S Setup and Maintenance

General Information

Course Code: SCT-DVSNAM1A
Length: 4½ Days

Audience

This course is for engineering and maintenance personnel responsible for installing, maintaining and troubleshooting drive systems that use the SINAMICS S (S110, S120, S150) drive systems.

Prerequisites

- 20 AC Motor Basics & 24 AC Drive Basics

Profile

2.9 CEUs (Continuing Education Credits)

This course is intended to provide knowledge and skills related to the SINAMICS S drive 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 aimed at developing job-related knowledge and skills.

Objectives

Upon completion of this course, the student shall be able to:

- Locate modules, terminals, options, and features on the SINAMICS S series drives.
- Commission the Drive with SINAMICS STARTER
- Perform all required Drive optimizations
- Take local control of a drive using the STARTER Control Panel
- Upload, back-up, and download projects to the Drive system
- Firmware Upgrade/Downgrade
- Configure Analog, Digital, and Comm. I/O
- Configure, Trace, and Evaluate BICO connections in the drive control logic
- Configure common Drive Functions
- Evaluate drive system performance using the trace function
- Evaluate operating states, alarms and fault codes

Topics

1. Drive construction, options, and features
2. SINAMICS STARTER
3. Commissioning
4. Drive Functions
5. Diagnostics and Troubleshooting
6. Maintenance and Repair
7. Integration into an Automation System
8. Drive Control Chart (DCC)
9. Technology Functions