

SINAMICS G130/G150 Setup and Maintenance

General Information

Course Code: SCT-DVSNGM1A
Length: 4½ Days

Audience

This course is for engineering and maintenance personnel responsible for installing, maintaining, and troubleshooting drive systems that utilize the SINAMICS G130/G150 Drive.

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 G130/G150 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 of the SINAMICS G130/G150.
- Commission the Drive with AOP30 and SINAMICS STARTER
- Perform all required Drive optimizations
- Take local control of a drive using the AOP30 and the STARTER Control Panel
- Upload, back-up, and download projects to the Drive system
- Firmware Upgrade/Downgrade
- Compare and analyze parameter files
- 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