

SINAMICS S Setup and Maintenance - STARTDRIVE (US-DVSNAM1B)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4 Days
2.4 CEUs

Target Group

- Engineer
- Maintenance

Short Description

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.

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

- Locate modules, terminals, options, and features on the SINAMICS S series drives
- Configure Analog, Digital, and Comm. I/O
- Configure, Trace, and Evaluate BICO connections in the drive control logic
- Use Device Trace to monitor signals
- Perform required Drive optimizations - servo
- Perform required Drive optimizations - vector
- Configure the Setpoint channel
- Evaluate and configure operating states, alarms and fault codes
- Activate and Configure the Basic Positioned
- Set the Basic Positioned Home Position
- Traverse the axis with a traversing program
- Configure and test S7 communications between an S7 PLC CPU and S120 Drive via PROFIBUS
- Connect with the Drive via STARTDRIVE
- Commission the Drive with STARTDRIVE for Servo Motors
- Create an offline project in SINAMICS STARTDRIVE
- Take local control of a drive using the STARTDRIVE Control Panel
- Use STARTDRIVE tools to troubleshoot and correct Topology errors
- Commission the Drive with STARTDRIVE for Induction Motors

Content

- S120 Fundamentals and Overview
- S120 Control Units and Additional System Components

- Line and Motor Modules
- Control Word, Setpoint, and Device Trace
- S120 Topology
- Chassis and Cabinet Power Units
- Closed Loop Control - servo
- Closed Loop Control - vector
- Setpoint Channel
- Diagnostics
- Basic Positioner
- S120 Communication
- Further Drive Functions
- SINAMICS STARTTDRIVE
- STARTDRIVE connection to target device

Language

English

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