

## SINAMICS S120 Basic Maintenance - STARTER (US-DVS12M1A)

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### Type

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Instructor-led Learning

### Duration and Continuing Education Units (CEU)

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2.5 Days  
1.6 CEUs

### Target Group

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- Maintenance

### Short Description

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This course is intended to provide knowledge and skills related to the SINAMICS S drive as it pertains to operation, 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

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- Trace voltage waveform from Input rectifier to Motor output
- Utilize S120 Architecture to troubleshoot Hardware Modules
- Troubleshoot the Power Electronics
- Establish communication with STARTER
- Upload, Archive, and Restore S120 Configuration via STARTER
- Perform an Online Configuration via STARTER
- Control Drive via STARTER Control Panel
- Trace Signals within the S120 configuration utilizing BICO technology
- Troubleshoot Drive failure to respond to a Command Source
- Troubleshoot Drive failure to respond to a Setpoint Channel Source
- Use the Diagnostic Fault and Warning Buffer to troubleshoot the system
- Troubleshoot Regulation (speed or torque) problems
- Install or Replace a Motor
- Install or Replace a Power Module
- Install or Replace a Control Unit
- Replace a Cooling Fan
- Obtain technical support online or via hotline

### Content

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- Safety, PPE, and ESD
- Perform Hardware Module Diagnostics
- Utilize STARTER software to Upload, Archive and Restore S120 Project
- Troubleshoot a SINAMICS drive system using STARTER application diagnostics
- Evaluate Drive System Performance
- Replace Defective Hardware
- Obtain technical support

## Recommended Prerequisites

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[quickSTEP Basics of AC Drives: SDT-QSBACD](#)

## Language

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English

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