

## SINAMICS G120 Setup and Maintenance (SCT-DV120M1A)

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### Global Reference

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SINAMICS G120 - Parameterizing and Commissioning (DR-G12-PM)

### Type

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Face-to-Face Learning

### Duration and Continuing Education Units (CEU)

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26 Hours over 4 Days  
2.6 CEUs

### Target Group

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- Maintenance
- Engineer

### Short Description

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This course is intended to provide knowledge and skills related to the SINAMICS G120 as it pertains to hardware identification, commissioning, operation, configuration, maintenance, diagnostics, and troubleshooting. Interconnections with the G120 – Computer – PLC will be utilized in the session. 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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- Locate modules, terminals, options
- Commission with Operator Panels (BOP-2, IOP, SINAMICS Starter)
- Perform Drive/Application optimizations
- Operate Drive remotely or locally – utilization of BOP-2, IOP and Starter control panel
- Data backup, Save, Upload/Download projects
- Troubleshoot Power Electronics
- 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
- Create Project/ Connect to Drive via TIA Portal
- Configure/Commission/Diagnose utilizing Start Drive
- Operate Drive via networking (PLC)
- Troubleshoot Drive via LED's Operator Panels, Starter, StartDrive

### Content

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- Overview of Hardware components/function
- Operator Panels (BOP-2, IOP)
- SINAMICS Starter

- Data Backup
- Repair and Maintenance
- BICO Technology
- Diagnostics
- Control Modes and Tuning
- Extended Functions/Features
- TIA Portal
- StartDrive
- Networking with PLC

## **Recommended Prerequisites**

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[Basics of AC Drives: STR-IA-002-2020B](#)

## **Language**

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English

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