

Workshop for Educators - Variable Frequency Drives (SCT-WSSCED1A)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

3 Days
2 CEUs

Target Group

- Other

Short Description

These workshops are exclusively for educators interested in developing teaching skills on Siemens variable frequency drives technologies. Teaching staff from public, not for profit schools including Technical High Schools, Community Colleges, Technical Schools, Universities and Trade Schools are welcome to apply and register. G120 equipment will be used for hands-on exercises.

Siemens Workshops for Educators are a series of educational events designed to help school teaching staff to build skills in leading edge industrial technologies. Each workshop hosted by Siemens is targeted at a specific automation technology and teaching experience level. Most workshops are open to all audiences and are structured to take students new to Siemens through the core elements of building and troubleshooting a Siemens automation or drives project.

Objectives

- Commission a G120 Drive keypad and the STARTER application
- Troubleshoot and diagnose a G120 drive
- Connect to the drive using available communication interfaces
- Download and upload projects to the drive system
- Archive and restore a project
- Use Starter to operate the G120
- Configure Analog and Digital I/O
- Take control of a drive using conventional I/O
- Configure and take control of a drive using the Operator Panels
- Interpret Fault and alarm codes
- Evaluate control and status words
- Configure DC, dynamic, and compound braking
- Configure communications I/O
- Compare parameter files

Content

- SINAMICS G120 Construction and Options
- Parameter Basics and Quick Commissioning
- Introduction to Starter
- Drive Navigator Startup and Control Panel
- Analog I/O Configuration

- Digital I/O Configuration
- SINAMICS G120 Diagnostics and troubleshooting
- Maintenance and Repair
- Advanced Quick Commissioning including vector and torque control
- Drive Functions
- Operator Panel Keypads
- G120 Safety Functions

Language

English

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