

SINAMICS 6RA80 DCM Setup and Maintenance

General Information

Course Code SCT-DVDCMM1A
Global Code DR-DCM-REP
Length 4 Days
CEUs 2.6

Audience

This course is for engineering and maintenance personnel responsible for installing, maintaining, and troubleshooting drive systems that utilize the 6RA80 SINAMICS DC MASTER or DCM Control Module.

Prerequisites

Soft Requirements:

- MS Windows Expertise
- Prior knowledge of DC Drives

Profile

This course is intended to provide knowledge and skills related to the 6RA80 SINAMICS DC MASTER or DCM Control Module 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 DC MASTER Converter.
- Perform commissioning using the BOP20 and AOP30 operator panels and SINAMICS STARTER.
- Perform all required Drive optimizations.
- 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. DCM Drive construction, options, and features
2. SINAMICS STARTER
3. Commissioning
4. DCM Drive Functions
5. Diagnostics and Troubleshooting
6. Maintenance and Repair
7. Integration into an Automation System
8. Peer to Peer Interfaces
9. Drive Control Chart (DCC)