

AC Drives with MM4 Maintenance (DR-MM4)

Objectives

This course is designed for Engineers and maintenance technicians who are not exposed to digitally controlled AC drive technology and further needs to work with Siemens make AC Drive MM4.

Target Group

Users, Commissioning / Service / Maintenance Engineers

Content

- Need of Variable Frequency Drive
- Types of Motor, Basics of AC Motor, speed variation of AC motors, reversal & braking
- Detailed Block diagram of AC Drive
- Inverter principle, PWM technique and power switching devices
- Specifications, range, features and hardware details of Micromaster MM4xx
- Block diagram of the product, terminal details
- Parameter structure and quick commissioning procedure
- BICO technology, working with programmable binary and analog inputs and outputs
- Control and status word
- Using BOP, AOP
- Set point channel
- Signal flow - Various control modes for MM4xx and principle of vector control
- Using various Data sets - CDS, DDS
- Different types of Braking methods
- Special functions - Automatic restart, Flying restart, Vdc max / min controller
- Using Free Function Blocks
- Drive Monitor and STARTER demonstration and practice
- Communication capabilities of MM4xx
- Fault diagnostics
- Replacement of different boards of Fx / Gx series
- Periodic maintenance steps
- Cold testing of AC drive
- Forming of Capacitors
- Hands on practice

Prerequisites

Engineers in Electrical / Electronic Engineering with Power Electronics Background

Type

Face-to-face training

Duration

5 days

Language

en