

## SINAMICS DCM - Parameterizing and Commissioning (DR-DCM-PM)

---

### Objectives

---

SINAMICS DCM converters in conjunction with SIMOTICS DC motors are used for sophisticated and demanding applications in drive technology.

A focused procedure when commissioning saves time and avoids critical faults. Correct commissioning supports reliable operation of the complete plant or system.

After the course you are able to reliably and efficiently commission the DC converters and adapt parameter settings to address the various applications. You can optimize the controller settings and in the case of faults, use diagnostic resources.

### Target Group

---

Commissioning/configuration engineers  
Service personnel

### Content

---

Design and function of the SINAMICS DCM converter:

- Control module CUD, interfaces
- Power unit, excitation circuit

Commissioning and parameterization with

- STARTER PC program
- Operator panels: BOP20 and AOP30

Using the memory card: Structure and data backup

Procedure when commissioning, checking functions

Optimizing the closed-loop current and speed control, automatic optimization

Function diagrams: Setpoint channel, inputs and outputs, free function blocks

Information on Drive Control Chart DCC

Drive interface to PROFIBUS / PROFINET

Expanding the system using Terminal Modules and Sensor Modules via DRIVE-CLiQ

Parallel connection and peer-to-peer coupling

Operating states, alarms and fault messages

Service functions: Trace, measuring functions, diagnostics memory

Practical exercises on training equipment with SINAMICS DCM, AOP30, STARTER

### Prerequisites

---

Basic knowledge of electrical engineering

### Type

---

Online-Training

### Duration

---

5 days

### Language

---

en