

## SINAMICS S120 Cabinet Modules Service and Commissioning – vector control with StartDrive in TIA Portal / SINAMICS S120 CM 柜式模块服务与调试课程-矢量控制(基于TIA博途StartDrive) (D7233)

### Objectives

This course is for startup engineer and service personnel. It covers the special features of servicing and maintenance for SINAMICS S120 Cabinet Modules. It focuses on the structure, diagnostic functions, and component replacement for power sections in S120CM. It also explains the special features of the modular structure of different Line Modules and Motor Modules as well as the modular SINAMICS S120 cabinet system. Practical exercises by AOP30 and PC-tool StartDrive in TIA Portal are carried out on SINAMICS S120CM.

### Target Group

Programming engineer, Commissioning engineer, Project design engineer, Service personnel, Maintenance personnel

### Content

- Overview of SINAMICS drive system
- Structure and wiring of SINAMICS S120CM Hardware
  - Control unit, line infeed and motor modules
  - Motors, encoders and interfaces
- Startup and parameter assignment with AOP30
- Parameterization, data backup using Software Startdrive in the TIA Portal
- Diagnostics and troubleshooting
- Data exchange with SIMATIC S7 via PROFINET communication
- Open-loop V/f control and close-loop VECTOR control of drives, motor identification and converter optimization
- Cabinet options
- Safety Integrated and special Functions
- Practical exercises on the SINAMCS S120CM training units

### Prerequisites

General knowledge of AC drives, of converter technology and control engineering

### Type

Face-to-face training

### Duration

5 days

### Language

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