

## SINAMICS S120 Diagnostics and Service / SINAMICS S120 诊断与维护课程 (D7219)

### Objectives

- Unplanned stoppages of production machines can cost a lot of money. In this course, you learn the proper way to handle a SINAMICS S120 drive system when a fault occurs. You will be able to rectify faults more quickly, and make minor adaptations to the parameter assignment. That will save time and money.
- The practical exercises are conducted on a booksize SINAMICS S120 converter system with synchronous and asynchronous motors.

### Target Group

maintenance personnel

### Content

- Principles and overview of the SINAMICS S120
- Motors and encoders for the SINAMICS S120
- Diagnostics by visual check and use of LED displays and multimeters
- Using the memory card: Structure and data backup
- Setting up an online connection between PC and SINAMICS S120 via PROFIBUS and Ethernet
- Data backup using the STARTER commissioning tool
- Structure of a STARTER project: Drive objects, components and DRIVE-CLiQ topology
- Test mode with STARTER: Operator panel, measuring functions, self-optimization
- Recording signals with the trace function, long-term trace, triggers on bit patterns
- Procedures for replacing control units, power modules and motors
- Motor defects: Diagnostic possibilities on site
- Encoder defects: Diagnostics, replacement and adjustment
- Basic positioner: Changing traversing blocks and signals
- Function and mode of operation of the safety functions integrated in the drive
- Replacement of components with safety functions activated
- Overview of parameters for service purposes
- Analysis of enabling signals and alarms
- Practical exercises using training devices

### Prerequisites

Basic knowledge of electrical engineering

### Type

Face-to-face training

### Duration

5 days

### Language

zh

### Fee

6,800 CNY