SIEMENS

SINAMICS S120 - Diagnostics and Service in the TIA Portal (DR-S12-DGT)

Présentation

In this course you learn to determine the cause of faults and resolve them using the PC-tool Startdrive in the TIA Portal. You can also perform changes of the parameterization.

Objectifs

You are responsible for reliable operation of the SINAMICS S120 drive system. If faults occur, then these should be resolved in the shortest possible time and operation resumed.
In this course, you will learn how to correctly and safely handle SINAMICS S120 drives when a fault occurs. Based on various scenarios, you will practice suitable measures such as data backup, replacing components and recommissioning.
After the course, you can determine the cause of faults and resolve them faster. When changes are made to the plant or system, you are also in a position to adapt the parameterization.

Groupes cibles

Service personnel
Maintenance personnel

Programme / Contenu

Design and principle of operation of the SINAMICS S120 converter system:
- Control module, infeed and power units
- Motor, encoder and DRIVE-CLiQ interfaces

Data backup and diagnostics using:
- PC-tool Startdrive in the TIA Portal
- BOP operator panel and web server

Determining the signal flow in the setpoint channel
Internal interconnections to PROFIBUS and PROFINET
Procedure when troubleshooting and recommissioning
- Checking the operating state and enable signals
- Analysis of alarms and fault messages
- Read-out of the diagnostics memory
- Tracing signals using the trace function
- Test operation using the control panel and measurement functions

Typical power unit, motor, encoder and cable faults
Procedure when replacing:
- Control module, power unit, motor and encoder
- Components with safety functions Safety Integrated

Practical exercises on training equipment with SINAMICS S120 in the booksize format

Remarque

Additional information regarding diagnostics at chassis and cabinet units is provided in course DR-S12-CHA.

Included in the course price: Free access to the digital learning platform SITRAIN access – starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on SINAMICS Converters as well as other topics. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

Type

Formation en salle

Durée

5 Jours

Langue

en

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