

## SINAMICS G150 - Service and diagnostics (DR-G15-DG)

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### Short Description

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You are responsible for the reliable operation of low-voltage drives with high power ratings. In addition to the first and recommissioning, the focus of this course is on identifying faults and applying focused measures to resolve these faults.

### Objectives

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After the course you are able to commission the converter and make changes to the parameterization. In case of faults, you can reduce downtimes by analyzing the faults and their associated causes, and you can replace faulty components.

### Target Group

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Commissioning engineers  
Service personnel  
Maintenance personnel

### Content

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Overview of SINAMICS G150 / G130 / S150 converters  
Commissioning and diagnostics with:  
▪ Advanced Operator Panel AOP30  
▪ STARTER PC tool  
Design of the converter and electrical cabinet  
Electrical connection: Contactors, switches, reactors and filters  
Setpoint channel, closed-loop control and trace function  
Signal interconnection and BICO technology  
Communication through PROFIBUS  
Handling and using function diagrams and circuit diagrams  
Function of modules and options  
Diagnostics and troubleshooting, handling spare parts  
Practical exercises at converter cabinet units:  
▪ Commissioning  
▪ Diagnostics and data backup  
▪ Replacing components

### Prerequisites

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Basic knowledge of electrical engineering  
Appropriate technical training, knowledge and experience in the field of electrical engineering, as well as knowledge of the related, relevant standards, which can be used to assess the work assigned and to identify and avoid potential hazards posed by electricity.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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