

SIEMENS SINAMICS S120 PARAMETERIZING AND COMMISSIONING IN THE TIA PORTAL

COURSE SPECIFICATIONS

Course Code: DR-S12-PMT

Course Length: 5 Days

COURSE OBJECTIVES

- You are responsible for the commissioning of SINAMICS S120 drive systems using the commissioning software Startdrive in TIA Portal.
- Modern converter systems offer a variety of functions and setting possibilities. By a purposeful procedure you can save time and avoid faults.
- In this course you will learn the procedure at commissioning step by step. You can handle parameter setting and data saving with the software Startdrive in the TIA Portal. By a correct parameter setting you support the reliable operation of the entire plant.
- After the course you can put the converter system SINAMICS S120 efficiently into operation. You can adapt the parameters of the closed loop controller to the respective application and use the diagnostic tools in case of a fault.

LEARNING OUTLINE

1. Design and functional principle of the converter system SINAMICS S120
 - a. Control unit, line infeed and motor modules
 - b. Motors, encoders and interfaces
2. Parameterization, data backup and diagnostics using Software Startdrive in the TIA Portal
 - a. Online connection via PROFINET and Ethernet
 - b. Project structure: drive objects and drive components
 - c. Topology of the DRIVE CliQ Interface
3. Function charts: setpoint channel, Input and output signals
4. Control signals and internal signal interconnection using BiCo technology
5. Optimization of the closed loop control using automatic procedures
6. Functional principle of the operating modes Servo and Vector
7. Analysis of the operating status using enable signals, warnings and alarms

8. Monitoring of signals using the trace function
9. Introduction to positioning
10. Data exchange with SIMATIC S7 via PROFINET using PROFIdrive Standard Telegram
11. Practical exercises at training kits with SINAMICS S120 in frame size booksize with Servomotor and induction motor

CERTIFICATION

Successful participants will receive an **international Siemens certificate**. Siemens LTD is accredited by **merSETA** to fulfil the functions as contemplated in SAQA regulation 13 for the standards and qualification as detailed in the statement of accreditation.

MERSETA TRAINING PROVIDER

Onetrust Training Solutions has received full accreditation as a **merSETA Training Provider**. (Certification number: 17-QA/ACC/2313/21.) We are in the process of extending our scope of accreditation for most of our individual training courses and skills programmes.

CONTACT DETAILS

Further enquiries may be directed to:

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