

SIMOTION and SINAMICS S120 - Diagnostics and Service (MC-SMO-DG)

Short Description

You are responsible for the reliable operation of the SIMOTION automation system and the SINAMCS S120 drive system. In this course, you learn the proper way to handle systems when a fault occurs. Based on prepared projects, you analyse signal interconnection and programming. Using projects with deliberate faults and errors, you identify and resolve faults.

Objectives

After the course, you can more quickly resolve faults and in a focused fashion. You can adapt the control program when changes are made to the machine.

Target Group

Service engineers
Maintenance personnel

Content

Overview of the modules and components:
SIMOTION automation system
SINAMICS S120 drive system
Working with PC programs:
SIMOTION SCOUT engineering software
SINAMICS STARTER commissioning tool
Structure and configuration of a SIMOTION project:
Axes, components and topology
Drive objects and technology objects
Establishing an online connection via PROFIBUS, PROFINET and Ethernet
Diagnostics with SIMOTION SCOUT and SIMOTION IT web browser
Analysis of enabling signals and signal interconnections
Recording signals with measuring functions and trace
Handling Safety Integrated when service is required
Procedure when replacing modules, motors and encoders
Introduction into programming when making adaptations in the case of service
Integration of SIMOTION SCOUT into the TIA Portal
Practical exercises on training equipment with SIMOTION D, SINAMICS S120, SIMATIC ET200S and SIMATIC Comfort Panels

Prerequisites

A good understanding of basic electrical principles such as voltage, current, resistance, inductance and power.
A basic ability to use an MS Windows PC, keyboard and mouse to open and close programs, locate files, drag, drop, copy and paste objects /text.
Basic knowledge of SIMATIC S7 in accordance with the TIA-SERV1 or ST-SERV1 courses.

Type

Face-to-face training

Duration

5 days

Language

en

Fee

2,570 GBP