SIEMENS

840Dsl Maintenance 2 w/ Operate (US-SNSLM2A-OP)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4 Days
2.6 CEUs

Target Group

- Maintenance
- Engineer

Short Description

This advanced maintenance course is designed for electrical/electronic end user maintenance personnel and supporting manufacturing/production engineers who wish to know more about the SINUMERIK 840Dsl (Solution Line) CNC Controls. This course presumes the customer is using an HMI with either the PCU 50 or TCU (Thin Client Unit) hardware, and the SINUMERIK Operated software.

This course includes information regarding system hardware, system software, configuration, and commissioning procedures related to both the 840Dsl and its integrated SINAMICS S-120 drive system. Course format is a mixture of lecture and hands-on exercises. SINUMERIK 840Dsl simulators are utilized to allow the student to build proficiency with the hardware and software systems. A review of the procedures for complete system backup and restoration will also be conducted.

Objectives

- Back-up and restore all NC data to the control
- Back-up and restore all PLC data to the control
- Back-up and restore all PROFIBUS drive data to the control
- Access and interpret control status display for troubleshooting purposes
- Analyze system messages, alarm messages, and LED indications to identify failures
- Set and/or adjust machine data in the control
- Optimize a closed loop position control system
- Perform practical start-up and servicing exercises on provided simulator units
- Set or modify machine data to optimize control functions
- Add/edit alarm or message text

Content

- Machine data
- Drive configuration and fundamentals of optimization
- Adaptation of control functions using machine data and/or interface signals
- Start-up of compensations, synchronous actions, and axial coupling
- PLC Interface
- Axis position control
- Spindle control

- NC Auxiliary functions
- Diagnosis of servo problems
- HMI System software and related tools
- SINAMICS Control Unit and related tools

Recommended Prerequisites

S7 Automation Maintenance 1: US-S7300S1C AND S7 Programming 1: US-S7TIAP1C

Mandatory Prerequisites

840Dsl Maintenance 1 w/ Operate: US-SNSLM1A-OP

Language

English