

840Dsl Maintenance 2 w/ HMI Advanced (US-SN84SM2A)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4 Days
2.6 CEUs

Target Group

- Maintenance

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 new SINUMERIK 840Dsl (Solution Line) CNC Controls. The course presumes the customer is using the PCU50.3, Windows XP-based, HMI Advanced software. Customers using the HT 8 / or HMI TCU (Thin Client Unit) are urged to contact Siemens Customer Training prior to enrolling in this class.

This course includes information regarding system hardware, system software, configuration, and commissioning procedures related to both the 840Dsl and its integrated SINAMICS S-120 servo/spindle 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 using SYMANTEC GHOST software 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 displays 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
- Back-up and restore all NC data to the control
- Perform practical start-up and servicing exercises on provided simulator units

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

Mandatory Prerequisites

[840Dsl Maintenance 1 w/ HMI Advanced: US-SN84SM1A](#)

Language

English

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