

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

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### Global Reference

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Start-up and Service SINUMERIK 840D sl (NC-84SLSIP)

### Type

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Face-to-Face Learning

### Duration and Continuing Education Units (CEU)

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26 Hours over 4 Days  
2.6 CEUs

### Target Group

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- Maintenance
- Engineer

### Short Description

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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

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- 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

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- 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**

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[S7 Automation Maintenance 1: SCT-S7300S1C](#) AND [S7 Automation Maintenance 1 - Virtual: SCT-S7OIL300S1](#) AND [S7 Programming 1: SCT-S7TIAP1C](#) AND [S7 Programming 1 - Virtual: SCT-S7OILTIAP1C](#)

### **Mandatory Prerequisites**

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[840Dsl Maintenance 1 w/ Operate: SCT-SNSLM1A-OP](#)

### **Language**

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English

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