

## 840Dsl Maintenance 1 w/ Operate (US-SNSLM1A-OP)

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### Type

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Instructor-led Learning

### Duration and Continuing Education Units (CEU)

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4 Days  
2.6 CEUs

### Target Group

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- Maintenance

### Short Description

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This course is designed for electrical/electronic end-user maintenance personnel for machine tools using the SINUMERIK 840Dsl (Solution Line) controls. This course presumes the customer is using an HMI with either the PCU 50 or TCU (Thin Client Unit) hardware, and the SINUMERIK Operate software.

This course emphasizes the maintenance aspects of this version of the SINUMERIK 840D. An overview of the soft key menus of the control is provided, including the basic principles of operating the control. Demonstrations are given on how to competently manage maintenance functions, and for back-up/restore functions of the NC, PLC and PROFIBUS Drive series start-up archive files. The class format is a mixture of lecture and hands-on exercises. SINUMERIK 840Dsl simulators are utilized to allow the student to build proficiency in control navigation and managing different forms of data. This course does NOT cover the SIMATIC S7 PLC programming language.

### Objectives

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- Identify the major SINAMICS S120 hardware and indicators in an 840 system
- Configure a Multi project complete with Component and Plant Hierarchy
- Program, document, test and troubleshoot a structured STEP7 program
- Program using the multiple address and coding types
- Use symbolic addressing
- Use core application instructions, functions, and blocks
- Program using the processed analog values
- Generate data blocks
- Install PROFIBUS DP connectors onto PROFIBUS cables and test the cables for correct installation
- Establish communication to an HMI

### Content

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- Data back-up and restoration
- Diagnostic functions
- Hardware Overview

### Recommended Prerequisites

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[Introduction to SIMATIC PLCs & Languages with Diagnostics: US-S7BADIA](#)

## Language

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English

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