SIEMENS

CNC - SINUMERIK Power Line 840Dpl Maintenance 2 w/HMI Advanced

General Information

Course Code: SCT-SN84DM2A Length: 4 Days

Audience

This course is for maintenance personnel of CNC machines that utilize the SINUMERIK 840D / 810D controls, using the MMC-103 or PCU-50 Operator Interfaces. Personnel using the MMC-100.2 or HT-6 Operator Interfaces are urged to contact Siemens Customer Training prior to enrolling in this class.

Prerequisites

• 840Dpl Maintenance 1 w/HMI Advanced

Profile

2.6 CEUs (Continuing Education Credits)

This course provides a complete overview of the system hardware, software and configuration of the SINUMERIK 840D CNC, and it and apos - s integrated SIMODRIVE 611D Digital Servo drive system. The course includes information regarding the hardware, configuration, and commissioning procedures for utilization of the SIMODRIVE 611D.

Class format is predominately hands-on exercises. Students use SINUMERIK 840D training simulators to build proficiency with the keypad, softkeys, and machine control panels. Students will also be exposed to procedures for complete system backup using Symantec GHOST software.

This course DOES NOT cover the SIMATIC S7 PLC language. Students who must troubleshoot the PLC user program should attend the SIMATIC S7 Maintenance I course.

Objectives

Upon completion of this course, the student shall be able to:

- Back-up and restore all data to the MMC-103 / PCU-50, using Symantec GHOST software.
- Access and interpret the controls status displays for troubleshooting purposes.
- Analyze system messages, alarm messages, and LED indications to identify failures.
- Set and/or adjust specific machine data in the control.
- Optimize a closed loop position control system.

Topics

- 1. Initialization of the control
- 2. Initialization of the digital servo system
- 3. System data back-up and restoration
- 4. PLC User program back-up
- 5. Interface signals and status display function
- 6. Axis position control
- 7. Spindle control
- 8. Identifying OEM generated alarms and operator messages
- 9. NC Auxiliary functions
- 10. Identification and setting of 611-D module and motor data in the 840D
- 11. Diagnosis of servo problems in the 840D