

# SIEMENS

*Ingenuity for life*

## Commissioning

SINUMERIK 840D sl training for machine tool control engineers

840D sl commissioning with TIA S7

### General information

**Length:** 4½ days

**Location:**

Siemens Industry, Inc.  
390 Kent Avenue  
Elk Grove Village, IL 60007

**Registration:**

Contact your Siemens Account Manager

**Capacity:** 6 students

**Cost:**

**There is no fee for the workshop.**

Participants are responsible for their own travel and living expenses.

Daily lunch will be provided during the training.

**Description/objective** Upon completion of the course, the participant will be able to commission a machine tool equipped with SINUMERIK 840D sl V4.8 using the TIA S7 toolbox including SINAMICS S120 Booksize drives, SIMOTICS motors and a PLC program.

**Requirements** Creating and editing of PLC programs via TIA S7 V15, participants are required to bring their own laptops with TIA S7 V15 already installed, experience with 840D sl using S7 Classic (V5.x) is helpful, but not mandatory.

**Class specifics** Participants will learn how to configure and commission the SINUMERIK 840D sl V4.8 with the TIA S7 V15. Practical exercises with Siemens test units concerning configuring and commissioning will be a major part of this training course. At the end of the course, participants will be extremely familiar with the SINUMERIK 840D sl. Participants will learn to independently configure, test and commission specific installation configurations through personal instruction and hands-on practical exercises.

**Target group** Commissioning engineers for machines tool equipped with SINUMERIK 840D sl V4.8 using TIA S7 V15

### Content

- SINUMERIK 840D sl system overview
- DocOnCD
- Updating NC-software
- Clearing PLC/NC memory
- Configuring channels / axes
- PLC toolbox for TIA S7 V15
- Basic PLC logic, OB100, OB1 and Machine Control Panel setup
- NC/PLC interface
- M-codes
- PLC alarms
- Drive commissioning
- Auto Servo Turning
- Trace, circularity test
- User variables
- Synchronous actions
- Gantry/master slave
- GET/PUT data transfer, NC-Var
- Asynchronous cycles
- Easyscreen
- Intro to tool carrier and TRAORI