TRAINING

SINUMERIK ONE commissioning with TIA S7

Exclusive training for machine tool control engineers Upon completion of the course, participants will be able to commission a machine tool equipped with SINUMERIK ONE V6.15 using the TIA S7 toolbox, SINAMICS S120 Booksize drives, SIMOTICS motors and PLC periphery.

Requirements

- Participants are required to bring their own laptops with TIA S7 V17 already installed and updated to the current release.
- Experience in creating and editing of PLC programs via TIA S7 V17
- Experience with SINUMERIK 840D sl using S7 Classic (V5.x) is helpful, but not mandatory.

Class specifics

Participants will learn how to configure and commission SINUMERIK ONE V6.15 with the TIA S7 V17. Practical exercises with Siemens test units will be a major part of this training course. Participants will learn to independently configure, test and commission specific installation configurations through personal instruction and hands-on practical exercises. Upon completion, participants will be very familiar with SINUMERIK ONE.

Target group

Commissioning engineers for machine tools equipped with SINUMERIK ONE V6.15 using TIA S7 V17.

Content

- SINUMERIK ONE system overview
- System documentation
- Updating NC software
- Clearing PLC / NC memory
- Configuring channels / axes
- PLC toolbox for TIA S7 V17
- Basic PLC logic, OB100, OB1
- Machine Control Panel setup
- NC / PLC interface
- M-codes
- PLC alarms
- Drive commissioning
- Auto Servo Tuning
- Trace, circularity test
- User variables
- Synchronous actions
- Gantry / master slave
- GET / PUT data transfer NC-Var
- Aysnchronous cycles
- Easyscreen
- Introduction to tool carrier and TRAORI

Course details

Length	4 days (start: Monday 1:00 pm; end: Friday 12:00 pm)
Location	Siemens Industry, Inc., 390 Kent Avenue, Elk Grove Village, IL 60007
Registration	Contact your Siemens Account Manager
Capacity	6 participants (dependent upon local regulations)
Cost	**There is no fee for the workshop.** Participants are responsible for their own travel, living expenses and meals.

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