

SINUMERIK 840D / 840D sl

NC programming of five-axis machines

CNC training for programmers

General Information

Length:	3 days
Dates:	July 10th to July 12th
Location:	Siemens Industry, Inc. 390 Kent Avenue Elk Grove Village, IL 60007
Registration:	www.usa.siemens.com/cnctraining
Capacity:	12 students
Cost:	There is no fee for the class. Participants are responsible for their own travel and living expenses. Lunch will be provided daily during the training. Each student will be provided with a complementary SINUTRAIN for SINUMERIK Operate at the end of the class.

Description / Objective

This is an advanced-level course covering special aspects of five-axis operation and programming, and addresses high-speed cutting (HSC) topics for applications that use SINUMERIK 840D / 840D sl controls.

Each student will be provided with a complementary SINUTRAIN for SINUMERIK Operate at the end of the class.

Requirements

Knowledge of, and experience in, programming SINUMERIK 840D sl including coordinate systems FRAME concepts, tool compensations, program jumps and control structures, macro technology, and parameterization of standard cycles

Target group

Machine tool OEM and dealer personnel, who provide support and training for programming, operating, and using five-axis CNC milling machines equipped with SINUMERIK 840D / 840D sl controls.

Content

- Introduction and overview of transformations
- Five-axis transformation and five-axis machine
- 3D tool offset and relevant tool data
- Face milling, circumferential milling and high-speed cutting (HSC) issues
- Manual control for active transformation
- Online tool length offset
- Machining oblique surfaces with swiveling tools, with / without five-axis transformation
- Swiveling cycle, system frames
- Practical demonstrations and exercises using a five-axis training machine.