

Siemens Certificate + EMCO Industrial Training modules



EMCO – a full-range supplier of machines:

- Concept machines for industrial training
- Conventional machines
- CNC machines



SINUMERIK Operate Including ShopMill & ShopTurn

Industry oriented training including*

- 6-seat license for SinuTrain from SIEMENS
- Full curriculum. **Free of charge.**
- Up to 3 levels “Train-the-Trainer” programming training, 3 days each. **Free of charge.**
- Level 1 and 2 training can be held at school location, nationwide. **Free of charge.**
- Level 1 and 2 can be certified at school location, nationwide. **Free of charge.**
- Siemens certified trainers are qualified to train and certify students. **Free of charge.**
- Siemens NX CAD-CAM training and certification upon request.

*) some conditions apply

Key factors for a successful industry oriented training

L.E.A.P.—Lifelong Educational Advantage Program course curriculum

[Comprehensive Instructor Training and Certification]

CNC turning courses		CNC milling courses		
Turning Level I: ShopTurn	Turning Level II: programGUIDE	Milling Level I: ShopMill	Milling Level II: programGUIDE	Milling Level III: 5-axis Programming
<p>This introductory turning course consists of 13 in-depth educational modules that include hands-on application sections to reinforce classroom-learned skills and grow operational understanding.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> Confidence in the basics of operations for all operating modes such as JOG, MDS, parameter, program manager, and automatic. Basic understanding of ShopTurn programming for applications such as drilling, turning, contouring, and milling. Competence in setting up automatic mode functions, program correction and hand wheel operations. 	<p>Building upon the course material learned in Turning Level I, Level II will instill students with the skills needed to effectively program a range of turning operations using programGUIDE, the Siemens graphical CNC editor. The course consists of 7 in-depth modules that cover major turning commands.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> Students will learn G-code programming with functions such as loops, jumps, and repetitions with the help of programGUIDE. Drilling and contour-turning skills will be enhanced, as well as learning the commands of mirroring, shifting, rotating, and scaling of contours. Automatic and Manual Reposition and program Restart functions. Learn the options of the automatic operating mode to overstore technological parameters. Parameters include: auxiliary functions, axis feed, spindle speed, and programmable instructions. 	<p>Students will gain a solid foundation in this introductory milling course. The course is comprised of 12 in-depth educational modules that include hands-on application sections to reinforce classroom-learned skills and grow operational understanding of milling.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> Confidence in the basics of operations for all operating modes such as JOG, MDS, parameter, program manager, and automatic. Basic understanding of ShopMill programming for applications such as drilling, contouring, and milling. Competence in setting up automatic mode functions, program correction and hand wheel operations. 	<p>Building upon the course material learned in Milling Level I, Level II will instill students with the skills needed to effectively program a range of milling operations using programGUIDE, the Siemens graphical CNC editor. This course consists of 7 in-depth modules that cover major milling commands.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> Students will learn G-code programming with functions such as loops, jumps, and repetitions with the help of programGUIDE. Drilling and contour-milling skills will be enhanced, as well as learning the commands of mirroring, shifting, rotating, and scaling of contours. Learn the options of the automatic operating mode to overstore technological parameters, Automatic and Manual Reposition and program Restart functions. Parameters include: auxiliary functions, axis feed, spindle speed, and programmable instructions. 	<p>Building upon course material previously learned in Milling Level I and Level II, Level III will instill students with the skills needed to effectively perform shopfloor 5-axis programming with Cycle800 leveraging 5-axis machining technologies. The course consists of 9 in-depth modules that cover 5-axis milling setup and programming operations.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> Students will learn 5-axis setup techniques including Align Edge and Align Plane and setup of 5-axis parts in jog mode. Programming 5-axis (3+2) parts programming directly on the control. 5-axis part program creation through ShopMill. Simulation of the created part for verification purposes. Review of the same part methodized in G-code with programGuide. Running the created part program in auto while demonstrating key features.

