



**SIEMENS**

*Ingenuity for life*

**L.E.A.P.**

Lifelong Educational Advantage Program

[usa.siemens.com/cnc-leap](http://usa.siemens.com/cnc-leap)

# Foundation for success

## Help your students LEAP ahead

The Siemens Lifelong Educational Advantage Program (L.E.A.P.) gives your graduates a career-enabling, basic-to-advanced, machine tool knowledge foundation.

### Industry-leading technology

The SINUMERIK CNC technology platform from Siemens has long dominated the world's high-end CNC manufacturing tiers. Today, SINUMERIK CNCs are increasingly preferred by employers wanting a competitive advantage—the combination of game-changing machine tool performance with the ability to train employees from basic-to-advanced machining on the same CNC platform.

- One control platform for basic-to-advanced CNC instruction
- The platform most used by high-tech manufacturing
- Backed by the world's leading motion control company
- Nationwide service, support and training



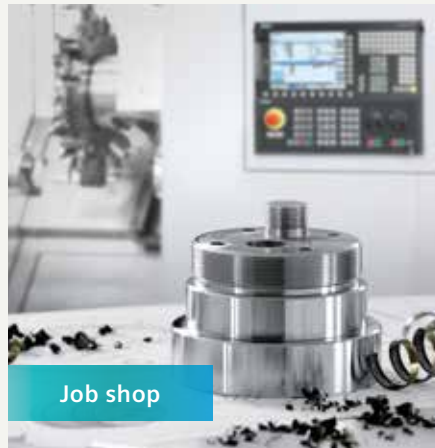
### Grow with leading technology partners...

Together with leading machine tool builders, we can help you better prepare your students for successful machine tool careers.



## Key high-tech manufacturing industries

Siemens is the global leader in CNC and machine tool automation with an unmatched installed base across all higher tiers of manufacturing.



Job shop



Aerospace



Automotive



Medical



Electronics

### Prepare students for careers, not just jobs

American manufacturing needs technical school graduates that are better prepared to ascend to high-performance positions: Graduates equipped with a more readily transferable knowledge base. Graduates that can progress more successfully into advanced CNC positions. Graduates that have been trained on the one CNC technology platform that singularly supports basic-to-advanced machining.

- STEM jobs are growing at 1.7 times the rate of non-STEM jobs\*
- Employers need career-ready graduates, not just candidates for basic parts cutting
- Siemens CNC instruction best supports this basic-to-advanced career path
- Siemens offers the instructional content and support your program needs

\*Source: U. S. Department of Education, STEM (Science, Technology, Engineering, and Math)

# Basic-to-advanced CNC Certification

Give your program a competitive edge

Only one CNC technology platform supports comprehensive, basic-to-advanced CNC instruction, giving students the game-changing capabilities employers need.

## Comprehensive understanding

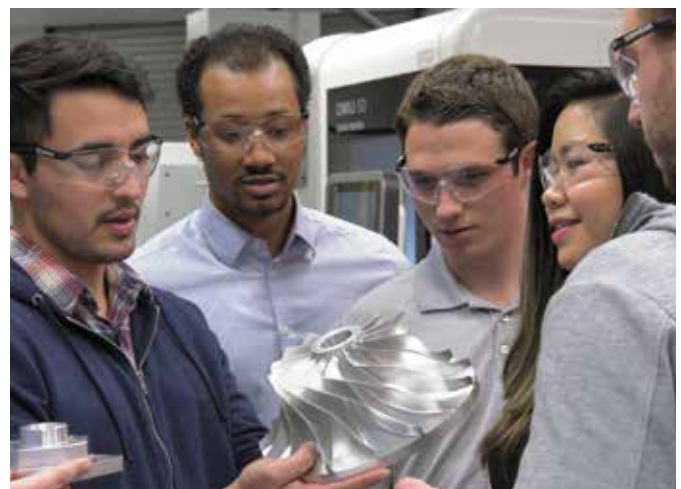
The SINUMERIK CNC technology platform features a universal interface for rapid knowledge progression across our basic-to-advanced control packages.

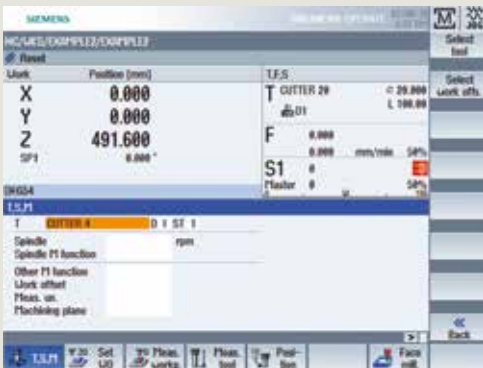
As your students learn to program and operate the SINUMERIK 828D job shop control, they become equally familiar with the SINUMERIK 840D. The SINUMERIK 840D is preferred throughout the world for its capabilities in high-end and mixed-technology machining.

- One interface teaches both basic and advanced CNC
- Game-changing performance sets your graduates apart
- Education empowered by industry-leading research and development
- Over \$4.86 billion invested in R&D in 2015
- Over 56,000 patents held in 2015

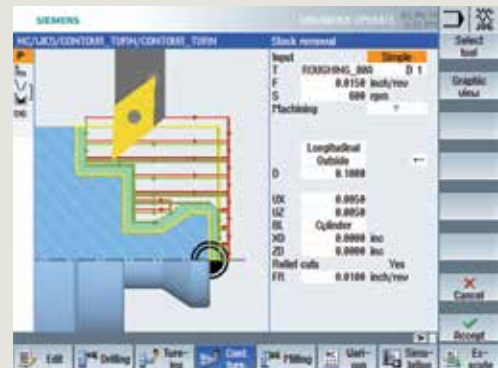
Close ties between industry and education have been a long-standing tradition at Siemens.

Our program bridges the tech school lab and the R&D lab, to bring game-changing machine tool solutions to educators and manufacturers alike.

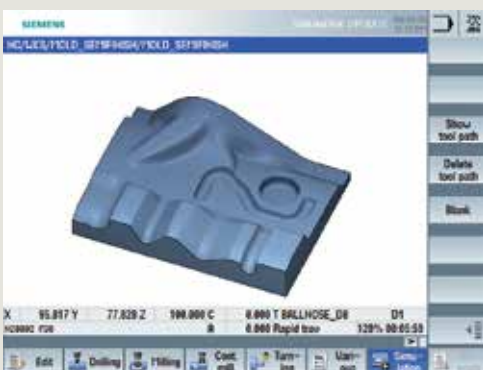




Universal HMI



Conversational programming



Visual verification



Shopfloor programming

**Put higher performance in your students' hands**

Siemens SINUMERIK CNC empowers more high-end machining applications than any other CNC technology platform in the world. Shown above are a few examples of the game-changing machine tool performance capabilities only Siemens CNC enables.

These are capabilities that can be easily taught to your students and whose knowledge they can readily offer to employers.

# High-performance education

## Boost the career-readiness of your students

Provide a comprehensive knowledge of basic-to-advanced CNC with our easily integrated Lifelong Educational Advantage Program (L.E.A.P.)

### The preferred platform

Now your students can learn basic-to-advanced machine tool control, using the manufacturing world's most preferred high-performance CNC platform. Our modular instruction program is easy to integrate and teach starting with SinuTrain, our PC-based training system.

SinuTrain turns a PC screen into an exact representation of the SINUMERIK Operate interface as featured across our platform of basic-to-advanced controls. In fact, the numeric kernel (NC) that drives SinuTrain is the same NC that drives our SINUMERIK 828D and 840D controls. Use of the actual interface will enable both your instructors and your students to quickly learn how to program and operate the full range of Siemens CNCs—and they can achieve this comprehensive level of knowledge with or without your investing in a machine, because our courses can all be taught right on a PC.

### Develop your students to the level today's leading manufacturers demand

Siemens provides robust training courses in the two major machine tool disciplines: Milling and Turning. Each of the course disciplines is divided into Levels that provide a pre-requisite approach for basic-to-advanced learning. Siemens provides the school with a complete installation of SinuTrain, our PC-based simulation software, to enhance the hands-on learning experience.

Each course level is provided as a complete curriculum with a combination of classroom and hands-on training modules designed to maximize student understanding and engagement throughout the course.

Successful completion of each level of training and subsequent testing can provide students with up to five Certificates to help them begin their careers in CNC machining.

The SinuTrain PC-based training system uses the SINUMERIK Operate CNC interface featured on our SINUMERIK 828D and 840D controls.

- Comprehensive basic-through-advanced CNC learning
- Modular content is customized to your curriculum
- Free instructor training, certification and support
- Hardware simulators
- Machine tool partners



Courses in milling and turning teach your students how to program, setup and operate a range of CNC machines that are driven by the controls.



**Get started today**

Getting started with Siemens is simple. Upon enrollment in the Siemens Cooperates with Education (SCE) program, we will conduct your site assessment to determine the tailored L.E.A.P. program that best meets your needs. We can provide assistance with the installation of the SinuTrain software package, and establish the schedule for instructor training and certification. Our basic-to-advanced course-level curriculum is designed to help your school achieve its goals. Ongoing support will be provided as needed.



## Learn more about the Siemens CNC L.E.A.P. program:

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