



Vincennes University

Indiana Center for Advanced Technology (ICAT)
Vincennes, Indiana

Right Skills Now-CNC Machining

An Accelerated Training Program for Veterans and Civilians. Starts August 17, 2020

Goals:

1. To provide high quality training on state-of-the-art equipment to help bridge the Advanced Manufacturing "skills gap".
2. To provide well-rounded entry level skilled CNC Machinists to an industry that is in desperate need.
3. To provide opportunities for students to earn industry recognized *NIMS credentials.
4. To prepare Veterans and Civilian adult learners for gainful employment as CNC Machinists.
5. To prepare students for life-long learning in a CNC machining career.

*NIMS is the acronym for the National Institute for Metalworking Skills

Description:

The Vincennes University Right Skills Now-CNC Machining program is designed to prepare Veterans and civilian adult learners to become well-rounded entry level CNC machinists with upward mobility potential. The curriculum is a combination of machining theory and extensive hands-on training. The duration of the training is 15 weeks or approximately 600 hours. College credit is not awarded for this program, rather it is designed as an accelerated program of study around industry recognized NIMS credentials based on skills needed for a career in CNC machining and manufacturing. Depending on the performance of the student in the class, the staff of the VU HTEC will recommend the graduates in one of three entry level categories: 1-CNC Machinist, 2-CNC Setup and Operator, or 3-CNC Operator.

Eligibility:

This program is designed for Veteran and Civilian adult learners. Recent high school graduates are first referred to Vincennes University's two-year Precision Machining Technology program. Entrance requirements include a high school diploma or a GED successful completion of a VU HTEC Mechanical Aptitude test.

Credentials:

Required NIMS Industry Recognized Credentials:

(Earning these credentials IS expected for successful completion of course.)

1. NIMS Measurement, Materials & Safety
2. NIMS Job Planning, Benchwork & Layout
3. NIMS CNC Mill Operator
4. NIMS CNC Lathe Operator
5. NIMS Milling: Programming, Setup and Operations Level 1
6. NIMS Turning: Programming, Setup and Operations Level 1

Optional Industry Recognized Credentials:

Earning these credentials IS NOT required for successful completion of course, but if time and circumstances allow, may be attempted in order to tailor the training to the needs of their employer, or future employer.

1. NIMS Milling: Programming, Setup and Operations Level 2
2. NIMS Turning: Programming, Setup and Operations Level 2
3. Mastercam Mill Design and Toolpaths
4. Mastercam Lathe Design and Toolpaths

Facility:

The Vincennes University HTEC is **approved by the Veterans Administration** for training.

VU will provide all of the training at the Haas Technical Education Center (HTEC) CNC Training Center which is located in Lebanon, Indiana at the Gene Haas Training and Education Center. The HTEC lab contains 13 full size Haas CNC machines along with 12 Haas control simulators, and 15 seats of Mastercam CAD/CAM software and miscellaneous manual machines. In addition to the CNC machines and manual machines, the center has a variety of precision measuring tools to train students in the use and care of metrology equipment.

**Partners:**

The Vincennes University HTEC Gene Haas Training Center is dedicated to providing the highest quality training available for Haas CNC machines and related technologies. The center leverages the support of its many manufacturing partners to provide training on the latest technology available. The list of partners includes: Haas Automation, Renishaw, Mitutoyo, Clodfelter Engineering, Sandvik, Mastercam, Quality Mill Supply, Zeiss, Immerse2Learn, SGS Tools, Techniks, Wallover, RegoFix, Lista, Fifth-Axis, Calculated Industries, and others. The VU HTEC is also in partnership with Veterans Administration counselors, the Indiana National Guard employment specialists, and the WorkOne in order to help recruit and place students.

Tuition and Fees:

The cost of the program is \$9012.00 (estimated). This includes all tuition, lab fees, textbooks, materials, hardware, software, and NIMS testing. Toolbox and tools \$1550.

Weekly Schedule:

8:00am – 9:00am	Study Period/ Immerse2Learn
9:00am – Noon	Lecture 1.0 hour/Lab 2.0 hours
Noon-12:30pm	Lunch (1/2 hour)
12:30 – 4:30pm	CNC Lab 4.5 hours
8.5 hours per day	

Implementation:

The Right Skills Now-CNC Machining program is offered three times per year with starting dates in early May, September, and September. Class size is limited to 12 students per class to maintain the highest quality of training.

Recruitment:

Students will be recruited through industry partner companies, the VA, the Indiana National Guard, WorkOne in Indiana, and its counterpart one-stop employment centers in other states, along with multimedia contact. Ideally, companies will be involved in the candidate selection process from the beginning.

Placement:

Vincennes University will use its own resources along with the resources of its partners, to help trainees to gain full time employment. Ideally, companies will be involved in the candidate selection process up front, and will hire immediately upon graduation.

For more information
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