

# CNC Machining

Level I Feb. 2020

240  
Hours

Admissions & Registration Center, 225 S. Pleasantburg Drive, Greenville, SC 29607 [www.gvltec.edu/EDCT/programs/](http://www.gvltec.edu/EDCT/programs/)

## CNC Machine Operator Program

A Computerized Numerical Control (CNC) Operator runs a CNC machine to cut metal and plastic parts to specific dimensions. CNC operators are very involved with the quality production of parts to meet customer specifications across many facets of the manufacturing industry. This 240-hour blended program consists of four modules designed to provide concepts, skills, and the knowledge base needed for an entry-level job as a CNC Operator.

### Prerequisites

The following prerequisites and assessments are required for entrance into the CNC Operator Machining Program.

- 18 years of age
- High school diploma or GED
- WIN Ready to Work certification level Silver or higher required
- Manual Machine - General Shop Basics (MTT525)

NOTE: Additional entrance requirements may apply based on funding source.

### Module 1

#### CNC Math (48 hours)

This module is a review of applied mathematical applications used in industrial/manufacturing shops focusing on CNC machining operations. Topics include: basic arithmetic, algebra, geometry, and trigonometry.

### Module 2

#### CNC Operator Basics (48 hours)

Safety Awareness, Quality Assurance, Production & Processes, Basic Measuring Tools, Print Reading/ Geometrical Dimensioning & Tolerancing (Manufacturing/ Mechanical Drawings). This module focuses on the skill sets for a CNC machining operator and include general shop safety; hazardous work environment awareness, interpreting industry prints and working drawings, and Geometric Tolerancing to ASME Y14.5- 2009 standards.

### Module 3

#### Intro to HAAS CNC Lathe and CNC Mill Operations (54 hours)

Includes an introduction to the machining programming, operation, and tooling. Students will receive hands-on training as part of this module.

### Module 4

#### CNC Online Training Environment HAAS CNC Machines (90 hours)

This online training reinforces and supplements the lectures, demonstrations, and hands-on training from the CNC Operator Level I course, with a focus on increasing control panel training contact time; learning with virtual controls and 3D Machines; editing, loading, running and saving CNC programs; and setting tool and work offsets. Touch probes, stock material removal, canned cycles, control alarms, Mill CNC Programming Level 1 and

Fees/Schedule

#### Level I - MTT501

Tuesdays & Thursdays  
Feb. 18 - June 11, 2020

Available times: 8 a.m. - 12:30 p.m.  
5-9:30 p.m.

Cost: \$2,649 (plus books)  
Prices and dates are subject to change.

For more information visit  
[www.gvltec.edu/edct/industrial\\_manufacturing/](http://www.gvltec.edu/edct/industrial_manufacturing/) or  
call (864) 250-8800.

#### WIN Ready to Work Testing

Offered the 2nd and 4th Wednesday of each month at 8:30 a.m.

Report to the Placement Testing Center, Room 210, in the GTC Admissions & Registration Center of McAlister Square.

For more information  
call (864) 250-8000