



# TOOLING U

*confidence to compete*

Pueblo Community College is proud to be affiliated with Tooling U, the leading provider of online training for manufacturers. Tooling U believes that manufacturers survive based on the talent and expertise of their people and training is the heart of a talented workforce. Pueblo Community College and Tooling U are now combining efforts to bring you the most complete and comprehensive training available. Throughout our catalog you will find our “jump start” icon referring you to this Tooling U page. The courses on this page are a complimentary foundation for our hands on courses. For course fees and more information on these classes

please visit the Tooling U website at [www.toolingu.com](http://www.toolingu.com).

### **AC Motor Applications 240**

This class describes the common parts of AC motors as well as different types and their applications, maintenance, and troubleshooting concerns.

### **Basics of Ladder Logic 220**

This class describes the basic principles of ladder logic, identifies the symbols used to program a PLC and explains the primary logic functions those symbols create.

### **Basics of the CMM 120**

This class identifies the major types and components of the coordinate measuring machine and describes the coordinate system.

### **Basics of the CNC Machining Center 130**

This class describes the basic parts of the machining center as well as the devices used on this machine. Includes an Interactive Lab

### **Basics of the CNC Turning Center 120**

This class describes the basic parts of the turning center as well as the devices used on this machine. Includes an Interactive Lab

### **Blueprint Reading 130**

This class identifies the information communicated on a blueprint with emphasis on interpreting the part drawing. Includes an Interactive Lab

### **CAD/CAM Overview 160**

This class describes the general process of using computers to design and manufacture parts and identifies common features available in CAD/CAM software.

### **Calibration Fundamentals 210**

This class describes the calibration process and explains how measuring instruments are traced back to national and international standards. Includes an Interactive Lab

### **Cutting Fluids 210**

This class identifies the major cutting fluids and their common uses.

### **DC Motors 230**

This class focuses on DC motors, their main parts, and how they are used and maintained.

### **Electrical Units 110**

This class describes how electricity flows and explains the basic units used to measure electricity.

### **Haas Lathe: Control Panel Overview 255**

This class describes the various sections of the Haas lathe control panel as well as the steps for powering up, powering down, and homing the machine. Includes Haas CNC Simulators

### **Haas Mill: Control Panel Overview 250**

This class describes the various sections of the Haas mill control panel as well as the steps for powering up, powering down, and homing the machine. Includes Haas CNC Simulators

### **Hole Inspection 240**

This class explains different hole characteristics and describes how specific gages are used for different hole inspection applications. Includes an Interactive Lab.

### **Intro to Electric Motors 200**

This class discusses how various types of electric motors are applied throughout industry and the principles behind motor operation.

### **Intro to GD&T**

This class introduces the fundamental concepts of geometric dimensioning and tolerancing (GD&T) and describes the main types of tolerances included in the standard. Includes an Interactive Lab

### **Intro to PLCs 200**

This class introduces the parts and operations of programmable logic controllers (PLCs) and describes the functions and different programming languages you will find on most PLCs.

### Intro to Six Sigma 170

This class covers the basic concepts of Six Sigma, including data analysis, types of variation, common and special causes, the roles of Six Sigma team members, and the DMAIC method.

### Lean Manufacturing Overview 130

This class describes the basic principles of lean manufacturing and compares them to traditional manufacturing approaches. Includes an Interactive Lab

### Math: Fundamentals 100

This class explains how to add, subtract, multiply, and divide to solve a problem following the correct order of operations.

### Mechanics of CNC 110

This class describes how parts and tools move in CNC systems.

### Milling Geometry 245

This class identifies and explains the angles that impact a milling operation. Includes an Interactive Lab

### Parallel Circuit Calculations 205

This class introduces the rules and formulas for parallel circuit calculations.

### PLC Inputs and Outputs 240

This class covers different types, configurations, capacities, and current conversions for PLC I/Os.

### Quality Overview 100

This class identifies the key components of a quality organization. The relationship between processes and products are explored through different roles in a manufacturing company.

### Series Circuit Calculations 200

This class covers the formulas and rules for calculating the values of voltage, current, resistance, and power in direct-current series circuits.

### SPC Overview 210

This class describes the main concepts of statistical process control and explains how to recognize processes that are affected by special causes. Includes an Interactive Lab

### Speed and Feed Selection 300

This class identifies the various speed and feed values used with the lathe and mill and describes how to convert these variables. Includes an Interactive Lab

### Statistics 220

This class covers the main concepts of statistics and relates these concepts to shop situations.

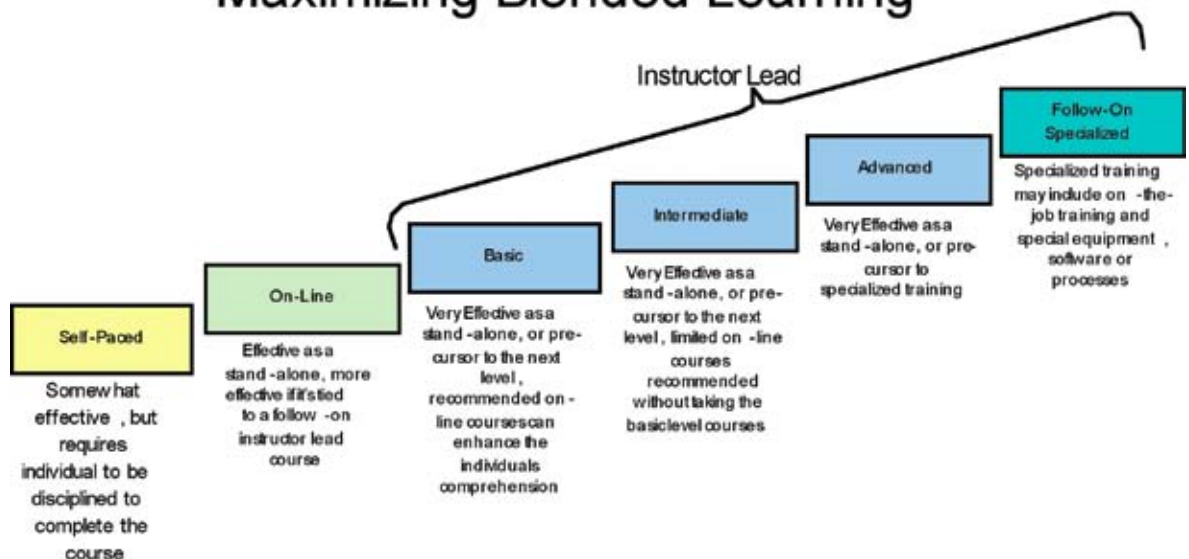
### Thread Inspection 250

This class describes common screw threads, their standards, and the common methods and devices used to inspect them. Includes an Interactive Lab

### Tool Geometry 240

This class identifies the major angles that impact the turning operation. Includes an Interactive Lab

## Maximizing Blended Learning



To provide a more comprehensive approach for training your employees, the workforce development professional have established strategic partnerships with high quality on-line training organizations such as Tooling University, Ed-2-Go, and others that when blended with instructor lead courses can significantly improve the learning outcomes. On-line courses can also serve as a pre-assessment tool to identify the skill level of your employees prior to training and assist us with the appropriate level of course they should attend. Look for the on-line course icons in this catalog for applicable recommended (but not required) pre-cursor courses.