

# MACHINE TOOL OPERATOR, CERTIFICATE - MT07

The Machine Tool Operator certificate is designed for those students who would like to learn basic machining skills without being enrolled in a full-time degree program. The certificate consists of all the machine tool courses given in the first two semesters of the diploma program. All the classes can be used for credit toward a diploma or associate degree.

## Requirements

Courses	Course Title	Credit Hours
<b>Required Course Information</b>		
MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 123	Machine Tool Theory II	3
MTT 124	Machine Tool Practice II	4
MTT 143	Precision Measurements	2
MTT 250	Principles of CNC	3
CPT 169	Industrial Computer Applications	3
Subtotal		25
Total Hours		25

## Graduation Plan

### Fall Start

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 143	Precision Measurements	2
Hours		12
<b>Spring Semester</b>		
CPT 169	Industrial Computer Applications	3
MTT 123	Machine Tool Theory II	3
MTT 124	Machine Tool Practice II	4
MTT 250	Principles of CNC	3
Hours		13
Total Hours		25

### Spring Start

Course	Title	Hours
<b>First Year</b>		
<b>Spring Semester</b>		
CPT 169	Industrial Computer Applications	3
MTT 123	Machine Tool Theory II	3

MTT 124	Machine Tool Practice II	4
MTT 250	Principles of CNC	3
Hours		13
<b>Summer Semester</b>		
MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 143	Precision Measurements	2
Hours		12
Total Hours		25

## Application and Advising

If you are ready to start your education, there are a few simple steps involved in enrolling at Piedmont Technical College.

Get Started Today (<https://www.ptc.edu/admissions/new-students/>)

## Advising Information

The following information provides a guide for advisors who are helping students enroll in this program.

## Program Notes

To help students maximize financial aid opportunities as well as help ensure that students take their courses in the appropriate sequence, it is recommended that students entering Machine Tool Technology be admitted to the associate degree program, rather than certificate or diploma programs. The Machine Tool Operator Certificate can be earned and awarded when it is completed. Be aware that not all MTT courses are offered each semester, so the best practice is to advise students to take the courses as outlined in the semester-by-semester graduation plan below.

## Notes About Individual Classes

If student needs a MTT class that is not offered, contact Don Lytch (at the Lex Walters Campus in Greenwood) or Phillip Calhoun (at the Center for Advanced Manufacturing in Laurens)

MTT courses are offered during days and evenings.

The Machine Tool student should be prepared to purchase \$350 worth of hand-tools necessary for project work. A good calculator with sine, cosine and tangent functions, along with fractional/decimal equivalent is recommended (TI-36X Solar by Texas Instruments). Safety glasses are required.

## Program Student Learning Outcomes

### Purpose Statement

The Machine Tool Operator Certificate is designed for those students who would like to learn basic machining skills without being enrolled in the full-time degree program. The Certificate consists of all the machine tool courses given in the first two semesters of the diploma program. All the classes can be used for credit toward a diploma or associate degree.



### **Program Student Learning Outcomes**

1. Apply theoretical knowledge gained in class to complete metal working projects to blueprint requirements.
2. Setup and safely operate all machine tools required for project completion.
3. Apply the proper use of measuring tools for the completion of projects within stated limits.
4. Maintain the personal discipline to complete projects on time.
5. Use technology in machine shop related to on the job requirements.
6. Use applicable tooling correctly during various machining operations.