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# **MACHINING FT / DT**



CNC Machining technology is a growing field with a wide range of challenging educational, learning, and work opportunities.

**CNC Machining is used  
for jewelry making**

# MACHINING FT / DT

## GENERAL KNOWLEDGE

**Course Length**  
935 Hours

**Who Can Enroll**  
Adults

**Schedule**  
Monday - Friday  
8:50 AM - 11:35AM  
and/or 12:15 PM -  
3:00 PM

**Full Time**  
\$8,830.00

**Books & Fees**  
\$300.00

**Equipment &  
Clearances**  
\$321.00

**Total**  
\$9,451.00

**Average  
Pennsylvania  
Salary**  
\$21.28 Hour

Tuition, fees, career majors, courses and hours are subject to change without notice.



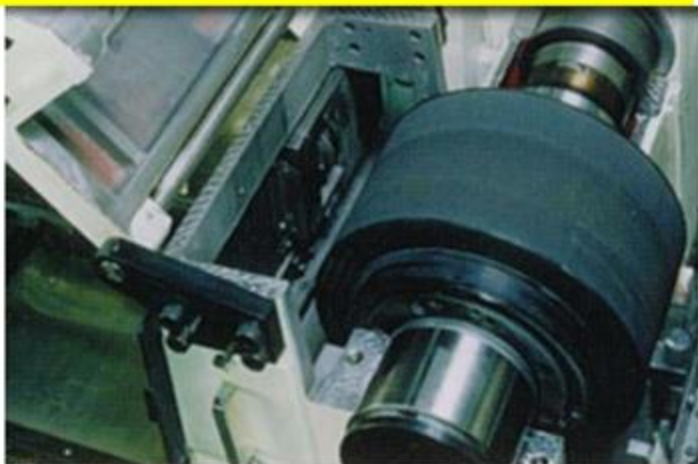
Machining techniques are often divided into four categories, and may be used together to produce a single product. Drilling is one of the most basic types of machining. Turning is another form of machining used to shape metal. Milling uses metal bits to cut material out of the surface or face of an object. Grinding is a simple process which involves using a stone-grinding wheel to shape or polish metal.

### HELPFUL ATTRIBUTES & ABILITIES

- Know your Feeds and Speeds
- Mathematical Skills
- Attention to Detail
- Fixture and Tooling
- Problem Solver
- Be Teachable

# MACHINING FT / DT COURSE HIGHLIGHTS

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WACTC has a long and storied history of success. The CNC Machining program was developed to meet the demands of local businessmen who continuously have a need for talented craftsman. Their expertise was instrumental in creating the final product.

## **COURSE HIGHLIGHTS**

Hands-on experience with CNC Lathes, Grinders and Vertical Milling Machines \* Blueprint Reading \* Computerized and Manual Machining \* Machine Shop Math \* G -Code and CAM Programming \* Machine Tool Safety \* Steel, Aluminum, Brass and Plastic Machining

## **WHAT IS MACHINING**

Machining is a process such as abrading, cutting, drilling, forming, grinding, and/or shaping of a piece of metal or other material performed by machine tools such as lathes, power saws, and presses.

## **THE WACTC WAY**

We consider our approach to shop environment and machine tool technology a model for the modern machine workshop. It's a clean, well-lit and spacious shop environment, ideal for training.

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## FREQUENTLY ASKED QUESTIONS



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### Q. How long is the course?

WACTC has two options for you. Our daytime program runs for one scholastic year and starts in late August this year. You will attend Monday through Friday from roughly 9:00 AM to 3:00 PM or a total of 935 hours of instruction

### Q. How much does it cost?

WACTC is a non-profit institution, so we really try to keep our costs down. The fulltime daytime option is \$9,451.00 . Financial aid may be available to those who qualify. We have financial experts on staff to assist you in the process.

### Q. Are there job opportunities for me when I'm finished?

The BLS predicted a 10% growth in employment for machinists in general from 2014-2024 due to improvements in technology. The BLS expects ample job opportunities for entry-level machinists since the number of machinists entering the field is projected to be lower than the number of openings. A CNC machinist creates a range of mass-produced items such as tools or machine parts by operating computerized equipment. With the manufacturing boom in our community the Machining graduate finds themselves in high demand.



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## FACTS & FIGURES

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### COURSE OBJECTIVE:

Students will obtain education and skills that emphasize CNC computerized training in order to place students in modern, high-tech positions. The manual lathe and milling and grinding will also be addressed.

### COURSE DESCRIPTION:

This program provides students with the skills needed for entry into the Machining field through basic, hands-on machining practice on lathes, milling machines and grinders. Topics include set-up, tool selection and methods used on various materials such as steel, aluminum and brass. Computer-part programming and machine operation are also included in the training.

### COURSE TOPICS:

Computerized Machining | Manual Machining | OSHA | Programming Software

### SPECIALIZED SHOP EQUIPMENT:

Computerized Lathes | Computerized Mills | Mastercam Parts Programming Software