



# Machine Tool Operation

## 33-credit Technical Diploma

[www.wctc.edu/machine-tool](http://www.wctc.edu/machine-tool)

*If you have an aptitude for math, are interested in building things, working with machinery and equipment, and are mechanically inclined, a career as a machine tool operator may be right for you.*

### About This Program

Machinists, or machine tool operators, produce parts to precise specifications, generally from setup to operation. In this program, acquire skills for the safe operation of engine lathes, vertical milling machines and surface grinders. Learn to operate computer numerical control (CNC) machines, interpret engineering drawings and use applied mathematics.

### What Makes This Program Unique

- Develop skills in WCTC's state-of-the-art Terry Lutz Integrated Manufacturing Center.
- Program has produced Skills USA state and national award winners.
- Work on cross-functional projects with students from other areas of manufacturing.
- Advance your career by applying credits earned in this technical diploma to the Tool and Die Making technical diploma.

### Career Salaries

\$31,000 – \$41,000 annually

*Salary range estimates based on wages for related occupations in Waukesha County as reported by Economic Modeling Specialists International (EMSI). Individual wages may vary based on experience, industry, location and specific job requirements.*

### Potential Careers

- CNC Operator
- Tool Room Machinist
- Machine Tool Operator



PROGRAM CODE 31-420-1

### CORE COURSES:

	<i>Credits</i>
420-126 Machine Tool Theory	1
420-127 Machine Tool Theory 2	1
420-130 Industrial Blueprint Reading 1	2
420-186 CNC Machining Ctr Programming	2
420-317 CNC Turning Center Operation2	
420-316 CNC Machining Center Operation	2
420-320 Machine Tool Operation 1	4
420-321 Machine Tool Operation 2	4
420-323 Machine Tool Operation 3	4
420-324 Machine Tool Operation 4	4
420-387 CNC Turning Ctr Programming2	
439-181 SolidWorks for Tool Design 1	2

### GENERAL STUDIES:

804-107 College Mathematics	3
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