



MAKE THE TOOLS THAT
KEEP AMERICA RUNNING

Machine/Tool Technology

[MANUFACTURING]



A career as a machine tool technician is for students who enjoy using their hands to make something work. Our graduates apply their knowledge and skill to plan, manufacture, assemble, test and repair parts as well as mechanisms and machines. If you are a good problem-solver and like a challenge, this career is for you.

LEARNING AT WASHBURN TECH

In this program, you will learn to read technical information on blueprints along with sketching, angles, tapers, gearing and precision measuring. Instruction also includes hands-on training in the operation of machine tools, such as the engine lathe, milling machine, surface grinder, drill press, computerized numerical control milling machine and computerized numerical control lathe. Attending full-day, you can complete the program in two semesters, while high school and half-day students can finish in four semesters. Students have the option of completing 48-credit-hour Cert C or a 23-credit-hour Cert A. Cert C completers may be eligible to complete an associate or more advanced degrees at Washburn University.

JOB AND SALARY OUTLOOK

Labor experts predict jobs will open in this field as baby boomers retire. Job candidates who can operate multiple machines have the

best opportunities for employment and advancement. The average entry-level salary for a machinist is \$16.35 an hour or \$34,000 annually, according to the Kansas Department of Labor. The average is \$21.83 an hour or \$45,400 annually.

ENTRY REQUIREMENTS

Students are required to score a minimum of 4 in both reading and math on the Accuplacer exam. Other assessments or college coursework can be accepted in place of Accuplacer. See a recruiter for details. Students also must complete an application and submit an official copy of all transcripts.

CERTIFICATIONS

- + NIMS
- + OSHA-10



Build your best self.

TALK TO AN ADMISSIONS COUNSELOR TODAY!

785.670.2200

CAREERS AS A MACHINIST »

- + auto machinist
- + die maker
- + CNC machinist
- + gear machinist
- + jig bore tool maker
- + factory maintenance
- + manual lathe machinist
- + metal die finisher

COURSE DESCRIPTIONS

SAFETY/OSHA-10*

Focuses on job/site safety and precautions

PRINT READING*

Identification of basics used in blueprints

MACHINING I*

Conduct job hazard analysis for conventional mills/lathes

MACHINING TOOL PROCESSES*

Analyze blueprints to layout parts and materials

LATHE/MILL/GRIND*

Analyze blueprints to layout parts and materials

MACHINING II*

Perform basic trigonometric functions

QUALITY CONTROL & INSPECTION*

Explore the science of dimensional metrology

WORKPLACE ETHICS*

Study human relations in today's workplace

METALLURGY*

Covers metallurgical terms and definitions

BENCH WORK*

Learn and practice bench work skills

CNC OPERATIONS*

Covers the history of Computer Numerical Control (CNC)

LATHE/MILL/GRIND II

Set up and operate lathes, milling machines & grinders

PRINT READING/MATH II

Build on basic print reading course

LATHE/MILL/GRIND III

Build on earlier coursework

BENCH/SAW/DRILL

Expand on earlier course

PRINT READING/MATH III

Expand on earlier course

LATHE/MILL/GRIND IV

Expand on earlier course

PRINT READING/MATH IV

Expand on earlier course; learn I.D. boring

WORKPLACE SKILLS II

Prepare for exit assessment by using Key Train software

APPLICATION CHECKLIST



**MEET WITH
ADMISSIONS**



**TAKE
ACCUPLACER***



**SUBMIT
TRANSCRIPT(S)**



**PAY
ENROLLMENT
FEE
(ADULT ONLY)**

2023-2024 PROGRAM COSTS - CERT A (Estimated)

| | HIGH SCHOOL | ADULT |
|----------------|--------------|----------------|
| Enrollment fee | \$0 | \$50 |
| Tuition | *\$304 | \$3,496 |
| All other fees | \$276 | \$943 |
| TOTAL | \$580 | \$4,489 |

*Tiered courses are paid by Excel in CTE. Non-tiered courses are paid by the student.

ADDITIONAL CHARGES** (Estimated)

| | HIGH SCHOOL | ADULT |
|-------------|-------------|-------|
| Tools/Books | \$637 | \$637 |

2023-2024 PROGRAM COSTS - CERT C (Estimated)

| | HIGH SCHOOL | ADULT |
|----------------|----------------|----------------|
| Enrollment fee | \$0 | \$50 |
| Tuition | *\$1,064 | \$7,296 |
| All other fees | \$411 | \$1,718 |
| TOTAL | \$1,475 | \$9,064 |

*Tiered courses are paid by Excel in CTE. Non-tiered courses are paid by the student.

ADDITIONAL CHARGES** (Estimated)

| | HIGH SCHOOL | ADULT |
|-------------|-------------|-------|
| Tools/Books | \$637 | \$637 |

COST NOTE

**A list of required tools/books is on a separate sheet of paper and on our website, WashburnTech.edu. Students also will need to purchase supplies such as (but not limited to) pens/pencils, notebooks/paper, three-ring binder, etc. Students may purchase them from a vendor of their choice.

MORE INFO »

For more programs, enrollment and course schedule information, please contact Admissions. Financial Aid is available to those who qualify.

CALL 785.670.2200

TO TALK W/ ADMISSIONS COUNSELOR

*indicates Cert A courses only