



TURN SHORT-TERM TRAINING
INTO A LONG-TIME CAREER

Fast-Track Machine/Tool

[MANUFACTURING]

Quickly become a vital part of the manufacturing industry by enrolling in our fast-track machine/tool program. Virtually all manufactured products depend on precision machining. Our graduates apply their knowledge and skills to plan, manufacture, assemble, test and repair parts as well as machines. If you have strong math skills and like a challenge, this career is for you!

LEARNING AT WASHBURN TECH

You will learn to read technical information on blueprints along with sketching, angles, tapers, gearing and precision measuring. You also will receive 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 one semester, while high school and half-day students can finish in two semesters. Upon completion, you will earn a 23-credit-hour technical certificate and a NIMS certificate.

JOB AND SALARY OUTLOOK

Labor experts predict jobs to 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 wage for a machinist in the state is \$19.76 an hour or \$41,093 annually, according to the Kansas Department of Labor. The average salary is \$20.38 an hour or \$42,380 annually.

ENTRY REQUIREMENTS

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

Fast-Track Machine/Tool

COURSE DESCRIPTIONS

SAFETY/OSHA-10

Focuses on job/site safety and precautions for job/site hazards; determine the uses of personal protective equipment; identify the safety equipment and procedures related to safe work practices

PRINT READING

Identification of basic lines, views and abbreviations used in blueprints; determine dimensions of features of simple parts

MACHINING I

Conduct job hazard analysis for conventional mills and lathes, develop math skills for machine tool operation

MACHINING TOOL PROCESSES

Analyze blueprints to layout parts and materials and select hand tools and machine shop mechanical hardware for specific applications

LATHE/MILL/GRIND I

Analyze blueprints to layout parts and materials and select hand tools and common machine shop mechanical hardware for specific applications

MACHINING II

Perform basic trigonometric functions and perform other procedures such as I.D. boring/facing operations and planning a sequence for machining operations

QUALITY CONTROL & INSPECTION

Explore the science of dimensional metrology and its application

WORKPLACE ETHICS

Study human relations and professional development in today's workplace

METALLURGY

Focus on the metallurgical terms and definitions in an effort to understand the behavior and service of metals in industry

BENCH WORK

Learn and practice bench work skills such as filing, drilling, tapping, deburring and layout for projects

CNC OPERATIONS

Become acquainted with the history of Numerical Control (NC) and Computer Numerical Control (CNC) machines; introduction to a CNC machine used in the precision machining trades; gain practical experience in the application of G codes and M codes



APPLICATION CHECKLIST



**MEET WITH
ADMISSIONS**



**TAKE
ACCUPLACER***



**SUBMIT
TRANSCRIPT(S)**



**PAY
ENROLLMENT FEE
(ADULT ONLY)**

2022-2023 PROGRAM COSTS (Estimated)

	HIGH SCHOOL	ADULT
Enrollment fee	\$0	\$50
Tuition	*\$304	\$3,496
All other fees	\$269	\$936
TOTAL	\$573	\$4,482

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

ADDITIONAL CHARGES**(Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	\$834	\$834

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 at the 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