FAST-TRACK MACHINE/TOOL TECHNOLOGY

Quickly become a vital part of the manufacturing industry by enrolling in our Fast-Track Machine/Tool program. Virtually all manufactured products depend on the precision machining industry at some point during their production. A career as a machine tool technician will make you an important part of that process. Our graduates apply their knowledge and skill to plan, manufacture, assemble, test and repair parts as well as mechanisms and 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. This program is offered at various times throughout the year including a summer session.

Job and Salary Outlook
The U.S. Department of Labor expects jobs to open in this field as baby boomers retire. Job candidates who have high-tech training and can operate multiple machines have the best opportunities for employment. In 2013, the average entry-level salary for a machinist was $17.40 an hour or $36,183 annually, according to the Kansas Department of Labor. The average salary was $21.70 an hour or $45,126 annually.

Entry Requirements
Students are required to meet the minimum score on ACT WorkKeys. A score of 4 in both Reading and Math is required. Other assessments or college coursework can be accepted in place of WorkKeys. Please see a recruiter for details. Students must complete an application and submit an official copy of all transcripts.

For more program, enrollment, and course schedule information please contact Admissions. Financial Aid is available to those who qualify.
Washburn Institute of Technology • 5724 SW Huntoon St. • Topeka, Kan. 66604
785.228.6315 or 877.588.7140 • WashburnTech.edu

CERTIFICATIONS:
OSHA-10
NIMS
Course Descriptions

**Safety/OSHA 10:** focus 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; identify fire prevention and protection techniques

**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 and perform preventive maintenance and housekeeping on conventional mills and lathes

**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 applications

**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

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**CHECKLIST**

- [ ] Meet with recruiter
- [x] *Take ACT WorkKeys*
- [ ] Submit transcript(s)
- [ ] Pay enrollment fee
- [ ] Tools/Books Estimate* ($216)

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**TOTAL 2015-2016 PROGRAM COSTS (Estimated) - HIGH SCHOOL**

- **Enrollment fee** $20
- **Tuition** FREE
- **All other fees** $506
- **TOTAL** $526

**ADDITIONAL ESTIMATED CHARGES**

- **Tools/Books Estimate** $216

**TOTAL 2015-2016 PROGRAM COSTS (Estimated) - ADULT**

- **Enrollment fee** $50
- **Tuition** $2,392
- **All other fees** $506
- **TOTAL** $2,948

**ADDITIONAL ESTIMATED CHARGES**

- **Tools/Books Estimate** $216

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*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.*

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Washburn University prohibits discrimination on the basis of race, color, sex, religion, age, national origin, ancestry, disability, marital or parental status, sexual orientation/gender identity, genetic information, or other non-merit reasons, in University programs and activities, admissions, educational programs or activities, and employment, as required by applicable laws and regulations. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pamela Foster, Equal Opportunity Director, Washburn University, 1700 SW College Ave, Topeka, Kansas 66621, 785.670.1509, eodirector@washburn.edu