

# Machinist Training Certificate

*Well trained machinists are in demand in the job market. The Machinist Training Certificate Program will provide you with the technical job skills required to obtain an entry level skilled position in a machine shop or similar manufacturing environment. Classroom and hands-on instruction in our modern machine shop facility will prepare you to start on the job with the skills you need. The certificate can be earned by successfully completing 29 credit hours through full- or part-time study, in the day or the evening.*

## **You'll Learn**

- Job set up and shop safety
- Blueprint reading, basic drafting and computer-aided drafting (CAD)
- Precision measurement and layout
- Lathe and milling machine operation
- Precision grinding
- Computer numerical control machining

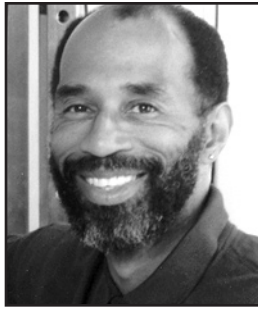
## **You'll Earn**

- A competitive edge in the job market
- The skills to advance in the manufacturing field
- A good foundation on which to further your education
- A stepping stone to apprenticeship programs sponsored by employers
- Employment opportunities in machine shops, maintenance departments and manufacturing facilities

## **You'll Succeed**

- Employees with certificates have better chances for promotion.
- College credit or advanced placement may be given for relevant work experience.
- More than half of all new jobs created require education beyond high school.
- Some credits from your certificate program can be applied toward an associate degree.

# Get in, Get smart, Get going. . .



You can enroll in the Machinist Training Certificate Program on either a full-time or part-time basis. The length of time required to complete your certificate depends on the number of courses you take each semester. Some students may need refresher courses at the basic or pre-tech level; others may receive transfer credit or credit for work experience.

Delaware Tech operates on a semester system with new sessions beginning in late August and mid-January, plus summer sessions beginning at the end of May and in mid-June. You can start taking courses any semester or summer session; however, all technical courses may not be offered every session. Counselors and advisors are available to help you schedule your courses.

## TECHNICAL COURSES

**Math for the Behavioral Sciences** presents an arithmetic review of practical mathematics including ratios and proportions, percentages, basic algebra and statistics, and word problem applications.

**Modern Manufacturing Techniques** includes a discussion of hand tools, precision measuring tools, identification and use of materials and equipment, and hands-on training emphasizing safety.

**Computer Applications** provides an understanding of the use of a wide range of software.

**Graphics with CAD** develops basic drafting skills with special emphasis on computer-aided equipment. Design problems and study activities help students conceptualize and communicate graphically.

**Machine Shop Practicum I** gives students the opportunity to use typical shop machines to build and inspect actual parts. Proper uses of typical measuring and inspection devices will also be demonstrated.

**Advanced Manufacturing Techniques** includes specialized machining processes and additional manufacturing processes topics. Also includes introduction to welding processes.

**Computer Numerical Control Machining** is intended for first time users of CNC equipment. Programming, set-up, and operation of CNC machine tools will be emphasized.

**Geometric Dimensioning & Tolerancing** includes tolerancing, datums, symbols, terms and locations, interpretation of drawings, and relation of these interpretations to the manufacturing floor.

**Machine Shop Practicum II** gives students the opportunity to use typical machines to build and inspect actual parts. Proper uses of advanced measuring devices and basic metallurgical concepts such as heat treating and properties of ferrous and non-ferrous metals are included.

## TO APPLY FOR ADMISSION

1. Obtain an admission application by calling (302) 888-5288. Admission applications are also available online at [www.dtcc.edu/prospective](http://www.dtcc.edu/prospective). Complete and return the application to the Stanton Campus with a \$10 fee.
2. Request that your high school and/or college transcripts be sent to the Admissions Office.
3. Arrange to take the Computerized Placement Test (CPT) *unless you have already completed college-level Math and English courses with a "C" grade or better*. The CPT is administered by the Admissions Office (302) 454-3954 and is used to determine appropriate course placement.
4. Meet with a Delaware Tech counselor to discuss your CPT results and select your course schedule.
5. Remember to apply and register early for the best selection of courses.