

Electronics/Electrical Engineering Technology

PROCESS INSTRUMENTATION OPTION

As a process instrumentation technician, you will work with mechanisms which sense, measure, record or adjust elements which affect the control of industrial processes.

You might also be employed by a process equipment supplier. Your professional preparation will qualify you to become a specialist in building systems, utilities, and petroleum, chemical, petrochemical and related process type industries. You might work in design, maintenance or even sales.

You'll Learn

- The basics of process control instruments used in industry
- Working principles, selection and application of instruments measuring: pressure, level, flow and temperature.
- Principles of process control modes
- Control valves
- Instrumentation drawings and documents
- Alarms and interlocks
- Instrument installation methods
- Hands-on experience with instrumentation trainers

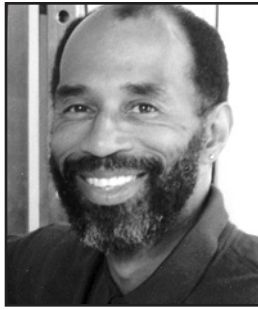
You'll Earn

- A competitive edge in the job market
- Demand for well trained instrumentation technicians is steadily increasing
- Local employment opportunities due to the numerous process-type industries in the area
- Salaries for graduates of the process instrumentation program are among the highest paid to associate degree holders
- The option to specialize in one of several process or process control areas
- The background to advance in the field as you gain more experience

You'll Succeed

- More than half of all new jobs created require education beyond high school.
- Employees with degrees have better chances for promotion.
- Associate degree holders generally earn 30 percent more than high school graduates (according to the U.S. Department of Commerce, Census Bureau).
- College credit or advanced placement may be given for relevant work experience.
- Many credits from an associate degree can be applied toward a bachelor's degree.

Get in, Get smart, Get going. . .



You can enroll in the Process Instrumentation Option of the Electronics/Electrical Engineering Technology Program as a full-time or part-time student. Day and evening courses are offered. The length of time required to complete an associate degree 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

Technical courses in the Electronics/Electrical Engineering Technology Program are heavily laboratory oriented, with 2-3 hours of hands-on experience for every 4-5 hours of classroom instruction. Because mathematical principles are used to analyze circuit performance, an interest or background in mathematics is important.

Analog Electronics I covers the fundamentals of applied electronic circuits including diodes, bipolar and field effect transistors.

Digital Electronics I and II study basic to more advanced digital logic.

Fluid Mechanics covers properties of fluids, pressure, flow and heat transfer.

Introduction to Circuit Analysis studies the analysis of current, voltage, and power in series, parallel, and series-parallel DC circuits.

Introduction to Microprocessors concentrates on programming and hardware fundamentals using a microcontroller.

Network Analysis covers AC circuits with an emphasis on applied use of fundamental theorems.

Process Instrumentation I covers the theory and working principles of instruments for measuring pressure, level, flow, temperature, instrumentation symbols and terminology.

Programmable Logic Controllers provides a hands-on learning experience to understand programming, function and installation of PLCs.

Technical Computer Applications introduces problem solving by computer methods, emphasizing solution of scientific and engineering technology related problems.

SUPPORT COURSES

Algebra & Trigonometry I, II

Calculus I

Composition

Humanities Electives (2)

Physics I

Technical Writing & Communication

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. 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.