



# Instrumentation Technology

CERTIFICATE / BACHELOR APPLIED SCIENCE



Entrance into the Instrumentation Technology Program requires successful completion of the 48-week Electrical Systems Technology Program or instructor approval. Instrumentation builds upon the knowledge learned in the first year, leading students to an understanding of how physical processes work in a practical and meaningful way. Students learn to combine physical and electrical/electronic processes into electro-mechanical control systems to improve productivity, efficiency and quality. Familiarity with data transmission and communications skills utilizing “smart” devices such as PLCs and DCS are also covered. Graduates in this field will be on the cutting edge of technology using personal computers as intelligent controllers with peripheral hardware and required software to interface with the industrial environment. These technicians receive salary considerations that are among the highest scales available in any of the technology trades.

## About Instrumentation Technology

Instrumentation technicians work in the heart of industrial automation, specifically in the measurement and automatic control of hydraulic, pneumatic, electronic, electrical and mechanical processes used in industrial operations. Instrumentation has become an increasingly important tool in the new world of industrial automation.

Instrumentation technology graduates have the entry-level skills necessary to enter the workplace as electrical and instrumentation technicians in mining, petro-chemical, pharmaceutical, food, paper, manufacturing and nuclear industries.

## Areas of Study

- Physical principles of flow, level, pressure and temperature processes
- Measurement technology for each process
- Fundamentals of process control (the methodology of using measurements, through a feedback control loop to automate industrial processes)

## Distinctive Features

- Fast-paced, 48-week program
- 80 percent of our graduates are hired within three months of graduation
- Associate of Applied Science in Electrical Systems Technology
- Certificate of Achievement in Electrical Systems Technology
- Certificate of Achievement in Instrumentation Technology
- MTC Scholarships available
- The Post-Associate Instrumentation Certificate is a core technology in the Bachelor of Applied Science

