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Applying to SCC

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Process Control Technology Certificate

■ During the past decade, the upstate region of South Carolina has seen a sharp increase in the number of industries that need an advanced manufacturing focused workforce. SCC answered this call by developing strong programs with concentrations on industrial maintenance and motion control applications.

While these programs are very successful, industry still requires individuals with a different skillset to handle specialized advanced manufacturing situations. These scenarios are concerned with automation and control of physical parameters in manufacturing systems such as pressure, flow, level, temperature, pH, humidity, mixing ratios, and chemical reactions. The Process Control Technology Program at SCC is ready to meet this need.

Students in this program will cover a variety of topics:

- Measurement techniques
- Industrial health, safety, and environmental practices
- Equipment and systems specific to process industries
- Operating procedures under normal, maintenance, and emergency conditions
- Industrial instrumentation
- Process troubleshooting
- Quality control concepts
- Composite material manufacturing processes

Many of these classes offer extensive hands-on training in lab environments so students may practice concepts learned in the classroom. These lab environments feature state-of-the-art equipment and simulations built to emulate the highest production standards and best practices.

- Process Control Technology at SCC is a three-semester program that spans an entire academic year starting in the fall and ending with a summer semester.

The program awards a **Certificate in Process Control Technology**. This certificate may be applied as credit toward a general Associate in Applied Science Degree.

Curriculum:

COL 101	College Orientation
PCT 135	Process Technology-Basic Measurements
EEM 117	AC/DC Circuits I
MAT 155	Contemporary Mathematics
PCT 131	Health, Safety, and Environment for Process Industry
EEM 162	Intro to Process Control
PCT 132	Process Technology-Operations
PCT 133	Process Technology-Equipment
PCT 134	Process Technology-Instrumentation
AMT 121	Intro to Composite Manufacturing
PCT 241	Process Technology-Systems
PCT 242	Process Technology-Quality
PCT 243	Process Technology-Troubleshooting
4 credits in General Education Courses	

Career Opportunities

Professional opportunities for PCT Technicians include:

- Process Maintenance Technician
- Process Equipment Installer
- Process Technician
- Chemical Process Operator

