

## Automation Engineer Technology Certificate

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The 31-hour Automation Engineer Technology Certificate will provide students with the basic skills required by business and industry to start a career as an industrial/automation manufacturing technician.

(Major Code 3200; CIP Code 15.0406)

Automation Engineer Technology Program web page (<http://www.jccc.edu/academics/credit/automation-engineer-technology/>)

### Program Outcomes

Johnson County Community College (JCCC) is committed to offering high-quality affordable programs that focus on developing knowledge and skills conducive to life-long learning. Both the General Education Student Learning Outcomes (<https://www.jccc.edu/about/leadership-governance/administration/institutional-effectiveness-branch/outcomes-assessment/learning-outcomes.html>) and Institutional Learning Outcomes (<https://www.jccc.edu/about/leadership-governance/administration/institutional-effectiveness-branch/outcomes-assessment/institutional-learning-outcomes.html>) convey JCCC's approach to programmatic outcomes. Additionally, students who successfully complete the Automation Engineer Technology program from JCCC will be able to:

- Demonstrate the safety procedures when working in an industrial setting.
- Demonstrate the safety procedures when working with hydraulic and pneumatic systems.
- Demonstrate the safety procedures when working with programmable logic controllers.
- Demonstrate the safety procedures when working with electrical systems.
- Obtain employment related to the career field.

### Certificate Requirements

#### First Semester

Code	Title	Hours
AET 110	Industrial Maintenance	3
AET 111	AC/DC Circuits	4
AET 120	Industrial Fluid Power	3
AET 122	Industrial Code	3
MATH 130	Technical Mathematics I* (or higher)	3
<b>Total Hours</b>		<b>16</b>

#### Second Semester

Code	Title	Hours
AET 160	Programmable Logic Controllers I*	3
AET 185	LAN Cabling and Installation	3
AET 255	Motor Controls and Variable Frequency Drives*	3
COMS 120 or COMS 121	Interpersonal Communication <sup>+</sup> Public Speaking	3
CMGT 100	Industrial Safety/OSHA-30	3
<b>Total Hours</b>		<b>15</b>

**Total Program Hours: 31**

\* This course has registration requirements.

+ COMS 121 is the recommended course.