



Certificate A

16-29 Credit Hours

- AC/DC Circuits
- Industrial Fluid Power
- OSHA 10
- Math
- Employability Skills/Interpersonal Communication

Certificate B

30-44 Credit Hours

- Certificate A Requirements
- Programmable Logic Controllers (PLC)
- Fundamentals of Motor Control/Electrical Control Systems I

Certificate C

45-59 Credit Hours

- Certificate B Requirements
- Industrial Robotics
- Actuator & Sensor Systems/Industrial Process Control

A.A.S.

60-68 Credit Hours

- Certificate C Requirements
- Minimum of 15 Credit Hours of General Education

Required Courses within Program

Common Courses **13 credits:**

<i>AC/DC Circuits</i>	<i>4 credits</i>
<i>Industrial Fluid Power</i>	<i>3 credits</i>
<i>Programmable Logic Controllers (PLC)</i>	<i>3 credits</i>
<i>Industrial Robotics</i>	<i>3 credits</i>

Support Courses* **11-15 credits:**

<i>OSHA 10 or 30</i>	<i>1-3 credits</i>
<i>Math</i>	<i>3 credits</i>
<i>Employability Skills/ Interpersonal Communication</i>	<i>2-3 credits</i>
<i>Fundamentals of Motor Control/ Electrical Control Systems I</i>	<i>2-3 credits</i>
<i>Actuator & Sensor Systems/ Industrial Process Control</i>	<i>3 credits</i>

Notes

Specifics pertaining to Automation Engineer Technology programs:

1. Educational Competencies align with ISA requirements.
2. While not a requirement for employment, A.A.S. graduates will be prepared to take and pass the Control Systems Technician (CST) exam through the International Society of Automation (ISA).
3. Level C certificates that do not include any general education courses and lead to the A.A.S. degree cannot be greater than 53 credit hours to maintain the 68 credit hour maximum for the A.A.S. degree.

Course list sequence has no implication on course scheduling by colleges.

Institutions may add additional competencies based on local demand.

Competencies identified within the Common Courses and/or Support Courses represent opportunities for articulation with K-12.

**Institutions may utilize existing like course titles for Support Courses that adhere to the agreed upon course lengths.*