

## Automation & Control Technician Skill List

Graduates of the Academy of Advanced Manufacturing will be certified by Rockwell Automation to be capable of successful execution of the following:

- Interpreting wiring diagrams used in an Industrial Automation and Control System (IACS)
- Describing, understanding, and troubleshooting the various factory floor electro-mechanical components in an IACS such as fuses, relays, contactors, digital and analog inputs and outputs and common instrumentation devices.
- Operate, support and troubleshoot small- and medium-scope Programmable Logic Controllers, and supporting projects associated with those controllers
- Troubleshooting ladder-logic based Programmable Logic Controllers
- Designing, programming, and troubleshooting plant floor Human Machine Interfaces (HMI)
- Tracing operational data from plant floor electro-mechanical devices to the controller, HMI within an IACS
- Starting-up, maintaining, and troubleshooting low voltage variable frequency drives
- Troubleshooting layer 1 and layer 2 networking components within an industrial Ethernet environment.