

# CERTIFICATE OF ACHIEVEMENT IN INDUSTRIAL AUTOMATION

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This certificate prepares students for advanced level employment in the fields of industrial automation and industrial maintenance. Students are required to complete the industrial maintenance program or have equivalent experience before advancing to the industrial automation program. Students completing this program will acquire employment skills in the areas of instrumentation, process control, electrical wiring and troubleshooting, motor controls, variable frequency drives, programmable logic controllers, human machine interfaces, and industrial networks.

## Program Outcomes

- Safely demonstrate technical skills required for employment in automation and manufacturing industries.
- Develop and apply problem solving skills to design and maintain automated systems.
- Function effectively in a technical capacity as an individual and as a team member, demonstrating a commitment to professionalism, quality, timeliness, and safety.

## Career Opportunities

Upon successful completion of this certificate, students will be prepared for employment in the following occupations: Industrial maintenance technician, industrial automation technician, instrumentation technician, electronics technician, field service representative, technical sales representative.

Code	Title	Units
REQUIRED CERTIFICATE COURSES		30
ITEC 174	Programmable Logic Controllers for Industrial Automation	3
ITEC 176	Advanced Programmable Logic Controllers for Industrial Automation	3
ITEC 182	Methods of Automatic Control	4
ITEC 184	Instrumentation	4
ITEC 283	Industrial Motion Control	4
ITEC 285	Industrial Networks	4
ITEC 286	Human-Machine Interfacing	4
ITEC 287	Industrial Automation Capstone Project	4
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TOTAL		30

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.