



# INTRODUCTION TO AUTOMATION - (QUICKSKILLS) CERTIFICATE - MCA6

- Test, analyze and troubleshoot industrial applications using a microprocessor-based system.

This certification is for students who have at least one year of experience as a maintenance technician or a returning student who has obtained a certificate in Mechatronics Technology I. This certificate will prepare the students for industrial robotics and programmable logic controllers used in automation.

## Requirements

Courses	Course Title	Credit Hours
<b>Required Course Information</b>		
AMT 105	Robotics and Automated Control I	3
AMT 205	Robotics and Automated Control II	3
EEM 241	Microprocessor I	3
EEM 251	Programmable Controllers	3
Subtotal		12
<b>Total Hours</b>		<b>12</b>

## Application and Advising

If you are ready to start your education, there are a few simple steps involved in enrolling at Piedmont Technical College.

Get Started Today (<https://www.ptc.edu/admissions/new-students/>)

## Program Notes

This certification is for students who have at least one year of experience as a maintenance technician or a returning student who has obtained a certificate in Mechatronics Technology I.

Courses may be taken on the Greenwood Campus, Newberry Campus, or Center for Advanced Manufacturing Campus in Laurens.

## Program Student Learning Outcomes

### Purpose Statement

This certificate introduces students to automation technology including robotics, microprocessors and PLC's. Students who complete this certificate may continue their studies in mechatronics. This certificate is especially designed for returning students who have completed the Mechatronics 1 Certificate or for new students with at least one year of maintenance experience.

### Student Program Learning Outcomes

- Operate and make corrective actions to an industrial robot.
- Operate and adjust robots and automated systems equipment.
- Demonstrate the ability to use a PLC and PLC software to maintain an automated industrial system.