

INT 254: Robot Maintenance and Troubleshooting

This course introduces the principle concepts in troubleshooting and maintenance of robots. Topics include recognizing and describing major robot components. Students will learn to diagnose robot mechanical problems to the component level; to replace mechanical components and perform adjustments; to troubleshoot class 1,2, and 3 faults; to manipulate I/O for the robot; and periodic and preventive maintenance. Students will learn how to safely power up robots for complete shutdown and how to manipulate robots using the teach pendant. Upon completion students will be able to describe the various robot classifications and characteristics, explain system operations of simple robots, and maintain robotic systems.

Credits: 3

Lab Hours: 1

Lecture Hours: 2

Program: Industrial Maintenance Technology