

Industrial Robotics

Course Information

Developers: Automation Engineer Technology State Curriculum Committee

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KBOR Facilitators: Rita Johnson/ Shirley Antes/ April Henry/ Lisa Beck

Business & Industry Liaison: Steve Reed – KASA Companies, Ronald Owings – Spirit Aerosystems and Mike Hart – Spirit Aerosystems

Credit Hours: 3

Description:

This course examines types, applications and troubleshooting of industrial robots and subsystems. Included in this course is the programming of industrial robotic control software.

Competencies

1. Demonstrate the safety procedures when working with industrial robotic systems
2. Describe the various types and applications of industrial robots
3. Describe the various types and functions of robotic subsystems
4. Select the proper wiring and terminations of robotic hardware
5. Describe the various types of robotic software programs
6. Demonstrate how to program a representative sample of robotic systems
7. Demonstrate the process of industrial robotic system troubleshooting