

Robotic Service Training

Course Duration

The duration is 5 days
Frequency of course offering 2 times per year.

Course Description

An intensive training program covering schematic level theory, disassembly and reassembly, as well as electrical troubleshooting on a Fanuc robot and controller and Lincoln Electric power source.

This course is intended for persons who must perform electrical and mechanical maintenance and troubleshooting as well as performing preventative maintenance.

Prerequisites

Students should have previous training with electrical/electronics, previous training/or experience in related field involving mechanical disassembly, repair and assembly.

Daily Schedule

Day 1

- Registration and Welcome
- Robotic Safety Considerations
- Basic Programming Lab
- Motion Fundamentals
- Program Editing
- Weld Programming
- Preventative Maintenance
- Using a Memory Card to Download/Upload Programs

Day 2

- Tool Frame Setup
- Setup and Operation of Torchmate Option
- Power Wave® Setup
- Operator Stand / Safety Equipment Setup and Operation
- Home Program
- Zero Program

Day 3

- Overview of Robot Controller and Mechanical Arm Unit
- Block Diagram-Level Theory of Operation
- Schematic-Level Theory of Operation
- Disassemble and Detail of Robot Controller
- Fault Assessment / Troubleshooting

Day 4

- Mastering / Calibration of Robot Arm
- Full Controller Memory Backup and Restore
- Installing Software
- Replacing Motors and Encoders



Day 5

- Auxiliary Axis
- Local Stop Circuit
- Review

Course Fee:
\$1,500.00

2010 Course Dates:

Apr 12 - Apr 16

Oct 11 - Oct 15

Any Questions?

Contact our Automation Service School
Coordinator at: (888) 935-3878

