



FANUC LEVEL 1

INTRODUCTION TO FANUC ROBOTS

INTENDED AUDIENCE

Apprentices, journeymen, ECTs, supervisors, and engineers with limited or no experience with FANUC robots and who have not worked with the robot on a regular basis.

COURSE DESCRIPTION

This course is designed to ensure students with limited or no experience with FANUC robots learn to safely work in automated environments with industrial robots.

In-depth, hands-on exercises will be used to teach students the skills necessary for safe basic robot operation, correct mode selection, teach pendant navigation, program touch-up, and recovery.

Core robotic concepts such as coordinate systems, tool center point verification, program selection, and test cycling will be practiced to build core skills. Each lesson will build a set of skills, culminating in a final project that will incorporate all skills learned during the class.

2026 LEVEL 1 CLASS SCHEDULE

| Start Date | End Date | Location | Seats Open | Duration | Language |
|------------|----------|---------------|------------|----------|----------|
| 6-01 | 6-05 | Michigan, USA | 0 | 5 Days | English |
| 7-20 | 7-24 | Michigan, USA | 6 | 5 Days | English |
| 8-10 | 8-14 | Michigan, USA | 8 | 5 Days | English |
| 10-05 | 10-09 | Michigan, USA | 8 | 5 Days | English |
| 11-30 | 12-04 | Michigan, USA | 8 | 5 Days | English |

Course applies to: R-J3, R-J3i, R-J3iB, R-30iA, R-30iB and R-30iB. Plus robot controllers.



STUDENTS WILL LEARN TO

- Recover from common faults and locate the alarm screen to display detailed fault information.
- Use correct coordinate systems for efficient jogging and touch-up of programmed positions.
- Safely test cycle programs in step and continuous modes.
- Navigate the teach pendant to operate, cycle, recover, or program the robot.
- Identify the function of program instructions encountered in the plant.
- Work with pre-defined programs that need to be touched up; programs will then be tested at lower speeds and optimized in preparation for automatic mode.
- Select and cycle both programs and macros, as well as understand program flow when macros are cycled.
- Understand why programs stop when waiting on signals.
- Determine the correct course of action when signals are not in the correct state, so that damage to equipment does not occur.
- Apply root cause troubleshooting and recovery methods to minimize positional and program changes, and to eliminate unnecessary downtime when touch-up to program positional data is not warranted.

TOPICS COVERED

- Safety
- T1, T2, and Auto Mode
- Jog Speed Settings
- Basic Systems Components
- Control Panel and Status Indicators
- Basic Teach Pendant Navigation
- Coordinate System Selection and Usage
- Efficient Jog Methods for Robot Recovery
- Fault Recovery and Alarm and Status Screens
- Position Screen and Coordinate System Selection
- Program Selection and Cycling of Programs
- Understanding Typical Program Flow
- Macros and Manual Functions
- Commonly Used Program Instructions
- Basic Troubleshooting
- Tool Center Point Verification
- Mastering Verification
- Proper Use of Function Abort
- Cycling and Touch-Up of Programs
- Point Touch-Up vs. Adding Positions
- Introduction to Inputs and Outputs
- Auto-Mode Preparation and Recovery

CONTACT US HERE TO RESERVE YOUR SPOT



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