

NC-300

Using Fanuc Ladder Logic and Diagnostics for Troubleshooting

Course Description

This course is designed for technicians who will be troubleshooting Fanuc controlled machinery. It will concentrate on the use of ladder logic and various diagnostic screens to troubleshoot machine problems. During the course the student will examine the ladder logic in detail for one machine. During this process we will also cover various programming techniques used by other machine builders. Multiple circuits, including M-codes, spindle commands, interlocks and alarms, will be covered.

Customer Supplied Training Equipment

This class is available on site or at our location. If done on site, the customer will provide a classroom suitable for training purposes. We can provide a simulator or teach the class on your equipment. A 220VAC supply will be needed for the simulator.

Topical Outline

- Ladder logic general description
- Inputs / Outputs
- Fanuc PMC addresses
- Function Statements
- Alarm Messages
- Reverse Engineering Alarms
- Ladder display and searching
- Trace function, Trigger Function
- M-codes
- Interlocks
- Sub-routines
- PMC parameters
- Backing up PMC data
- PMC Diagnostics

If you wish to add, remove or concentrate on any of the topics please let us know. We will accommodate any special requests.

Prerequisites

Participants should have an understanding of ladder logic and an electrical background. It is also recommended that they have a general understanding of machine tool operations.

Course Length

36 hours

CEU's

3.3