

G-910

GE Fanuc Series 90 Family Programmable Controllers/Level One Maintenance & Troubleshooting

Course Description	This 36-hour course provides a thorough hands-on familiarization with the GE Fanuc Series 90-70 and 90-30 families of programmable controllers. The course is designed for technical personnel involved in the installation, troubleshooting and maintenance of GE Fanuc Series 90 Family programmable controller systems.
Topical Outline	<ul style="list-style-type: none">▪ Introduction to the GE Fanuc 90▪ Family▪ Hardware Familiarization:<ul style="list-style-type: none">- Central Processing Unit- Input/Output System▪ Software & Hardware Configuration▪ Memory Structure and Organization▪ Troubleshooting Procedures<ul style="list-style-type: none">- Hardware Troubleshooting- Software & Program Troubleshooting▪ Instruction Familiarization<ul style="list-style-type: none">- Relay Logic- Timers and Counters- Conversion Functions- Arithmetic and Compare- Control Functions▪ Installation and Maintenance▪ Program Documentation
Prerequisites	Students should have successfully completed Intellect Controls Group course I-100, Introduction to Ladder Logic and Control, or have a working knowledge of electromechanical control devices and relay ladder logic.
Course Length	36 hours
CEU's	3.3
Objectives	Persons successfully competing this course will be able to: <ul style="list-style-type: none">▪ Identify the components of Series 90-30 and 90-70 programmable controllers.▪ Configure and install Series 90-30 and 90-70 programmable controller systems.▪ Effectively use an IBM compatible terminal for programming and troubleshooting.▪ Isolate processor and I/O faults to the module level.▪ Write simple programs using the Relay and Basic Mnemonic instruction groups.▪ Copy and load control programs.▪ Use a printer to document programs and print reports.