

Fanuc G Code (Tool Path) Programming

Fanuc 0, 16-18-21, 15, i-Series

Description

This class will teach students the fundamentals of basic programming. Students learn Cartesian Coordinate Systems, G codes, basic M codes, word address, canned cycles, cutter radius compensation, and sub programs. Participants will be given many different examples, as well as write many programs. Safety lines and technique will also be taught.

Outline

- Cartesian Systems
- Absolute Location
- Word Address
- M Codes
- Datums
- Part Zero
- Reference Planes
- Canned Cycles
- Sub Programs
- Programming Examples
- Positioning
- Incremental Location
- G Codes
- Alpha Codes
- Program Structure
- Machine Zero
- Work Coordinates
- Cutter Radius Compensation
- G10 Functions
- Machine Tool Options

Prerequisites

Participants should have a good basic knowledge of machining practices.

Course Length

36 Hours

Performance Objectives

At the completion of this course the participant will be able to:

- Calculate speeds and feeds from manufactures specs
- Use absolute positioning methods
- Use a cartesian coordinate system
- Understand program format
- Edit existing programs
- Write a basic program

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