

Fanuc G Code (Tool Path) Programming

Course 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 be covered.

Customer Supplied Training Equipment

The customer will provide a classroom and access to a machine tool with a Fanuc controller suitable for training purposes. The instructor will need unlimited access to the machining center for the duration of the class.

Topical Outline

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

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 a good basic knowledge of machining practices.

Course Length

36 hours