

G Code, CNC Control & Machine Setup – VMC (3 Days)

Course description

In this accelerated setup and programming course, you will be introduced to the concepts of CNC machining; from the basic theory of CNC milling, machine functions, all the way up to G-Code programming and CNC machine set-up. Through our step-by-step course, you will learn the skills needed to take a simple part drawing and make it into a real part.

In the class, a Fanuc/Fadal based VMC will be made available for student hand-on experiment.

What you will learn:

- Introduction of the machining theory
- Explanation of CNC milling technology
- How does a VMC work?
- Axis configurations and coordinate systems
- Explanations and examples of G-Codes and M-Functions
- G&M code programming from blue print*
- Fixed cycle details and where they are applied*
- How to use sub-program*
- Hands-on machine setup and operation
- How to use RS-232 upload/download programs
- How to use fixture offset and tool offset
- How to apply cutter compensations
- Part program execution of a real programmed part
- In process part inspection and dimension adjustments using cutter compensation

What machine is used for training?

Depending upon student demand & background; the training machine will be a generic VMC with either Fanuc or Fadal CNC control.

Who should attend?

The perspective students should be familiar with machine shop practices and equipment; we encourage individuals who desire to attain CNC machining skills to attend.

Dates and Locations:

This course is offered at Compumachine's Danvers facility on a first come, first served basis and requires R.S.V.P.'s.

For a more detailed schedule of course availability, please check our website or contact Peter Jones at (978)-657-8440 ext. 236.

* Note: 2 day class of "CNC Control & Machine Setup" will not include these items