



INDUSTRIAL ENGINEERING

CNC:

CNC stands for computer numerical control. It is a versatile system that allows you to control the motion of tools and parts through computer programs that use numeric data. CNC can be used with nearly any traditional machine. The most common CNC machines found in the machine shop include machining centers (mills) and turning centers (lathes). These classes will explain operations performed with the help of CNC. The content is for individuals who need to understand what CNC is and how it works. Content covers the basic machines as well as programming for the more experienced user.

Course Duration: 36 hrs

Outline:

- Over view of CNC Operation - Machiens
- Different types of CNC Machien Designs
- PC Interface - 2 Different circuits
- Stepper Motor (Unipolar - bi polar- multi phase- 5 phase)
- Stepper Motor Driver (full step- half step-Micro step)
- Configuring the driver to the pc software
- Mechanical Design (Linear Guides - Power screws - couplings)
- Manufacture your machine
- Practical working with real CNC Machine

ENGO SOFT