

Automation Consultants Training Classes

CNC Troubleshooting – Fanuc Controls

This course is designed for technicians who will be troubleshooting CNC equipment with Fanuc controls. We will emphasize the importance for technicians to fully understand how the electronics and mechanics interact in order to troubleshoot a problem. The course will cover the three primary areas of CNC troubleshooting:

Electrical – Motors, servos, encoders, ladder logic and diagnostics.

Mechanical – The major components that make up a machine tool.

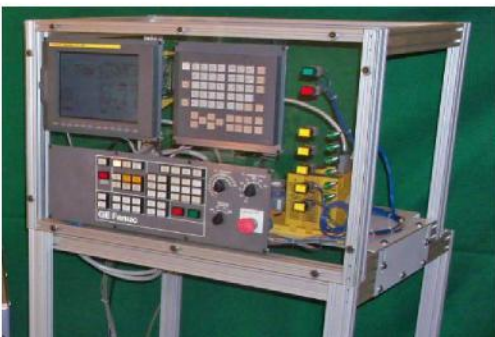
Environmental – Outside factors such as leveling, power, tooling.



During the course the students will assemble a CNC machine. This includes items such as box and linear guide rails, gibbs, ballscrews and a lubrication system. Once this is complete, the students will add the motors, servo drives and all of the necessary wiring. In the next step they will install the control, operator panel, parameters and ladder logic. As they assemble the machine we will discuss each component, how to adjust it, and how it can fail.



After the assembly, errors will be introduced into the machine. The students will use what they have learned in class to diagnose the problems. The students will also be presented with various scenarios dealing with machine failures. They will discuss potential causes for the failure and determine a logical series of tests in order to quickly isolate the problem.



All of our classes can be tailored to the specific issues that you wish to address. This class is available at your facility or at our training center in Louisville, KY.

Automation Consultants
PO Box 577

Floyds Knobs, IN. 47119

502-552-4995 812-923-5396 (fax)

www.shoprag.com

info@shoprag.com