

Corporate Office
7042 Fairfield Business Dr.
Fairfield, OH 45014-5480
(513) 874-3225
(513) 874-3229 Fax



THE FPDA 
MOTION & CONTROL NETWORK

Principles of Machining

Course Description: This course covers terminology, setup and operation of drilling, turning, milling and grinding machinery, along with measurement and the use of precision tools. Hand and power tool operation will also be addressed. Safety will continuously be addressed throughout each topic.

Prerequisites:

Textbooks: Machine Shop Operations and Setups, Industrial Fasteners plus numerous handouts.

Learning Objectives:

- Safety
- Explain six different types of energies associated with machinery
- Review lockout procedures in their proper sequence and when to use them
- Hand and power tools proper use
- Precision measurements and layout tools
- Discuss conversion of English to metric and metric to English
- Benchwork and the proper tools required
- Fasteners
- Machining Principles
- Drilling Operations
- Lathe Operations
- Milling Operations
- Review the major types of cutting fluids
- Surface Finishing
- Shear, Press Break, and Iron Worker