



Precision Manufacturing Institute Presents:

MACHINING FUNDAMENTALS TRAINING

Looking to understand the fundamental principles of machining to begin a career in manufacturing? Then enroll today to learn Machining Fundamentals at PMI, 764 Bessemer Street, Meadville PA 16335

To enroll contact Shawn Spinneweber at PMI (814) 333-2415 or email sspinneweber@pmionline.edu

*** Classes are subject to minimum enrollment

Machining Fundamentals

Oct 7 to Dec 18, 2013.

Mondays and Wednesdays evenings 4 pm to 8 pm

Cost: \$ 1225.00/person including text and workbook

Duration: 80 hours

Prerequisite: Basic Math, mechanical reasoning and basic spatial abilities

Description:

This course will expose the beginning machining student to the fundamental practices and operations of part layout, sawing, drilling, milling, turning and surface grinding. The student will begin with reviewing key print reading principles, basic shop math and basic measuring tools. Students will then be given hands on applications using files, hand drills, hand tapping, hand reaming, counter boring, counter sinking and hand sawing. Students will then learn the components, safety and basic machine operations of the vertical mill, lathe and surface grinder by machining a project on each machine.

Details: Machining Fundamentals covers the following topics:

- Basic Print Reading
- Basic Shop math
- Basic Measuring Tools
- Layout
- Hand tools – drilling, tapping, filing and reaming
- Mill, lathe, drill press and surface grinder – components and safety
- Drilling operations – drilling, reaming, counter-boring, counter-sinking and tapping
- Vertical Mill operations – tramming, squaring raw material, slot milling
- Turning operations – Facing, OD turning, shoulders, and boring
- Surface Grinding – wheel dressing, grinding surfaces parallel

