

Course Outline
IMTC 228
Machine Shop III
3 Semester Hours

The Community College of Baltimore County

Description

Machine Shop III

Covers basic machine shop principles that are used in industry today; examines the history of machine tools, safety, measurements (including precision measuring tools) lay-out, blueprint reading, bench and hand tools, power saws, drill presses, lathes and milling machines.

Prerequisite: IMTC 218

Overall Course Objectives

Upon completion of this course the student will be able to:

- A. Operate machine tools using O.H.S.A. safety rules
- B. Operate engine lathe, milling machine and shaper
- C. Machine projects to within + or - .001 of an inch
- D. Turn tapers
- E. Machine bevel, chamfers, radius
- F. Machine O-ring grooves
- G. Make keys for keyways using shaper
- H. Use milling machine to machine parts to within + or - .001 of an inch

Major Topics

List all major topics in outline form if appropriate

- I. Introduction to machine shop
- II. Lathe project
- III. Machining project
- IV. Milling machine project
- V. Shaper project
- VI. Operating shaper
- VII. Lathe project
- VIII. Milling machine project
- IX. Operating milling machine

Course Requirements

Exam	75%
Quizzes	25%

(Subject to revision by the instructor)

Other Course Information