

# MFG 202 : METALS PREPARATION

---

## Transcript title

Metals Preparation

## Credits

2

## Grade mode

Standard letter grades

## Contact hours total

60

## Lab hours

60

## Prerequisites

instructor approval.

## Recommended preparation

MFG 100.

## Description

Bandsaw, cold saw auto stop operations, ironworker hole punching and abrasive power tool operations. Includes safety, profile cutting, shearing, material identification, blade welding, blade selection and offhand grinding operations.

## Learning outcomes

1. Student will safely setup and operate the horizontal band saw.
2. Student will calculate blade length for different size band saws.
3. Student will demonstrate ability to cut within 1/32" of line profiles using the horizontal band saw.
4. Student will setup and perform cutting and punching operations with the Iron Worker.
5. Student will correctly identify commonly used fabrication metals.

## Content outline

- Machine safety
- Band saw blade terminology and selection
- Calculation of blade lengths for band saw blades
- Horizontal band saw setup and cutting operations
- Iron worker setup, shear, and punch
- Profile cutting
- Material markings and identification

## Required materials

Requires textbook and special gear, see syllabus for details.