

Metal Chop Saw

•Review dress code

- Remind students that long hair must be tied back, loose clothing and/or jewelry must be removed
- Tool creates sparks and metal debris. Eye protection must be worn at all times. Long sleeve shirt and long pants are encouraged

•Intro

- Discuss what this saw does/Strengths
 - Semi-Accurate cuts of ferrous metals (steel)
 - Angled or MITERED cuts

•Show controls and Adjustments

- Show how to “unlock” tool
- ON/Off switch
- Demonstrate how to change angle and show gauge/pointer
- Demonstrate how to clamp material in tool
- Demonstrate checking blade condition before use with tool unplugged
- Discuss and show maximum material dimensions

•Discuss and Demonstrate Importance of:

- Body Position
- Hand/Arm position
 - Remind students to NEVER cross arms
- Material should be clamped securely in vice when cutting
- No freehand or hand-held cuts allowed
- Steel is a hard and tough material. Take your time and allow the tool to cut through with constant light to medium downward pressure
- Remind students that the cut pieces will be very hot and there will be a large sharp burr at edge

•Briefly Discuss Hazards and Don't's (No Horror Stories)

- User condition ie; lack of sleep, in a hurry etc.
- Never cut very small pieces
- No freehand cuts or offering hand held pieces to spinning blade

•Making Cuts

- Demonstrate and discuss layout and marking
- Make a straight/square cut
 - Feed saw to bottom of stroke and release trigger waiting for blade to stop
 - Emphasize feed rate and “listening” to the tool

- Angle tool and demonstrate a miter cut
- Discuss and Demonstrate angling saw AWAY from hand holding material whenever possible
- Discuss and Demonstrate stop block and positive physical stops
- Field Questions then Students Cut
- Have each student make bot straight cross cut and miter cut
- Make sure blade comes to a complete stop
- Have students return to 90 degree position after cut

•Remind students to clean-up after themselves immediately after using a tool or area.

Show them where the brooms, vacuum, etc. are located and what our expectations for clean-up are.

REMEMBER-We are here to help. If you have any questions, ask!