CAED Support Shop

**Cold Saw**

**•Review dress code**

-Remind students that long hair must be tied back, loose clothing and/or jewelry must be removed

**•Intro**

-Discuss what this saw does/Strengths

-Accurate CROSS cuts in metal/mild steel

-Accurate angled or MITERED cuts

­-Discuss how to divide total/overall angle in half ie: 90-45

**•Show controls, Adjustments, and Vice operation**

-Show how to operate material holding vice

-Show how to loosen, move vice and re-tighten

-Show lightly clamping material with crank then using large lever

-ON/Off switch-show how to release e-stop

-Demonstrate how to change angle and show gauge/pointer

-Discuss and show maximum material dimensions

**•Discuss and Demonstrate Importance of:**

-Body Position

-Hand/Arm position

-Remind students to NEVER cross arms

-Show the “No Hands” zone

-Material should always be firmly clamped into material vice

-Show when possible the angle/miter cut should go “away” from user

-Show students that liquid coolant should be flowing onto blade while saw is on

-EMPHASIZE that this is a saw for cutting metal which is MUCH harder than wood

-feed speed is MUCH slower than wood cutting saw

-Emphasize to students to be **VERY Gentle** at initial contact of blade to material

**•Briefly Discuss Hazards and Don’ts (No Horror Stories)**

-User condition ie; lack of sleep, in a hurry etc.

-Never hold small pieces

-Remind students that very small pieces can be cut from a larger/safe to hold piece

-No freehand/non-clamped cuts

**•Making Cuts**

-Demonstrate and discuss layout and marking

-Make a straight/square cut

-Emphasize feed rate and “listening” to the tool

-Angle tool and demonstrate a miter cut

-Discuss and Demonstrate angleing saw AWAY from hand holding material whenever possible

•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

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