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!