CAED Support Shop

Sanders

Students should all have the band saw demo pieces

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

Wood shop sanders are for wood and plastics ONLY
No concrete, rockite, plaster, or metal

•Intro/Strengths
-Spindle Sander
    -For inside radii
-Oscillating Edge Sander
    -For long edges
-Disk/Belt Sander
    -For straight and outside radii

-Do not force material into the sanders, let the machines do the sanding, forcing the material into the abrasive only wears it out, it does not sand the part faster
-The sanders are not meant for material removal, saws should remove the bulk or all of the material then the sanders finish to the line

•Spindle Sander
-Show on/off switch
-Show direction of rotation and emphasize sanding **against** the rotation
-Demonstrate how to change the spindle and table insert (**Unplug** the machine)
-Keep material **FLAT** to the table
-Show how to tilt the table and how to return to square
-Explain that the angle changes as you move the work-piece around the table
-Explain/Demonstrate that a “hole” in a piece must be inserted over the spindle **ONLY** while the machine is **stopped**
-Do not sand small pieces without a clamp or attaching them to a larger piece
-Demonstrate sanding inside radius
-Field questions then have students sand their material

•Oscillating Edge Sander
-Show on/off switch
-Show direction of rotation
-Emphasize keeping the material against the miter gage and FLAT to the table
    -The sander is very powerful and can grab the material and pull it out of your hands if it is not supported by the miter gage
-Show how you can sand inside radii using the table on the side
-Demonstrate how to raise and lower the table and how to tilt the sander
-**Never sand the face of the material or small parts**
-Only one person on the machine at a time
-Demonstrate how to sand a piece of material
-Field questions then have students sand their material

•Disk/Belt Sander
-Show on/off switch
-Show direction of rotation
-ONLY sand on the **DOWNWARD** moving side of the disk
-Work-piece should ALWAYS be **FLAT** on table
-Do not sand the face of the material, your fingers will be too close to the belt/disk, use the drum sander
-Attach small pieces to a larger piece or hold in a WOOD clamp, do not get fingers close to the sander
-Show how to tilt the table, ONLY tilt table down, and how to return to square
-Emphasize only one person can use the disk/belt sander at a time
-Demonstrate sanding on both the belt and disk, remind students to only sand on the downward side of the disk
-Show how to move the material back and forth, staying in one spot will wear the abrasives
- Field questions then have students sand their material

•Remind students to clean-up after themselves after using a tool or area.
-Show them where the brooms, vacuum, etc. are located and what our expectations for clean-up are.
-Remind them particle board, OSB, MDF, Melamine, and finished material goes in the **TRASH**. Wood and Plywood can be recycled.
-Have the students clean up

Ask students the following questions:
-What portion of the disk on a Disk Sander should be used for sanding material?
From the center to the downward spinning side
-When using the Disk/Belt sander, the workpiece should be in contact with the table:
Always
-When sanding small or irregular shaped pieces on the Disk/Belt Sander they should be held with?
A wooden clamp
-When is it ok to sand the thickness dimension of a piece of ¾ inch plywood or similar material on the Disk/Belt Sander?
Never
-What materials can be sanded on the Disk/Belt Sander in the woodshop?
Wood and some plastics
-The Spindle Sander is used to:
Sand irregular curves and interior radii

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