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*KEEPING YOUR FACILITIES*  
***SAFE***

*APPENDIX A*  
*SAFETY FIRST*  
*FACILITY SAFETY SIGNS*

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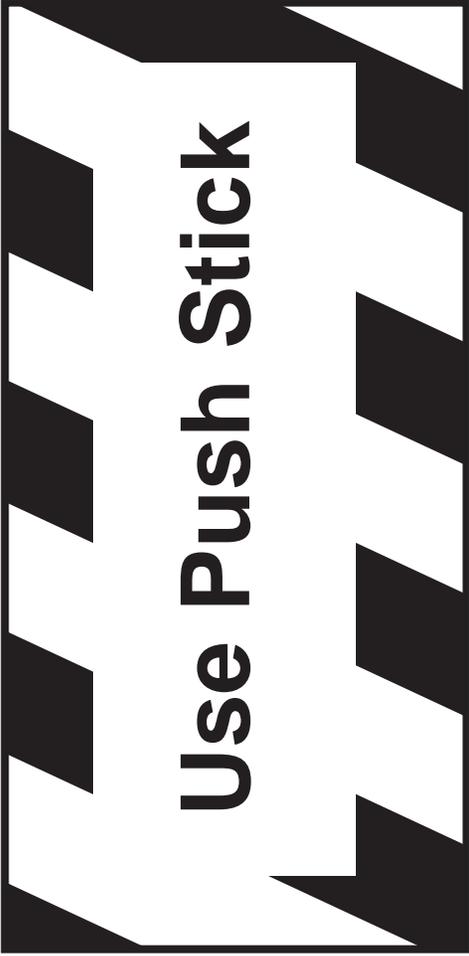
**WHMIS**

# **Eyewash Station**

# **Hearing Protection**

# **Lens Cleaning Station**

# **Safety Glasses Required**



**Use Push Stick**



**Use Hearing  
Protection**



**Stand to Sides of  
Planer Mouth**



**Use Hold-Down  
Guard**



**Keep Fingers  
5 cm from  
Sanding Disk**



**Keep Fingers  
5 cm from  
Sanding Belt**



**Use Clamping  
Device**



**Safety Glasses  
Required**



**Always Clamp  
Workpiece**



**Noise Protection  
Required**



**Maximum  
1/16" to 1/8"  
Guard Gap**



**Use Hold-Down  
Guard**



**Always Clamp  
Workpiece**



**Always Clamp  
Workpiece**



**Always Clamp  
Workpiece**



**Always Clamp  
Workpiece**



**Use Hold-Down  
Guard**



**Use Hold-Down  
Guard**

# **Safety FIRST**

## **FLOOR JACKS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Use on firm, flat floor or ground.
- Always use safety stands to hold up vehicle.
- Ensure that stands are placed on the vehicle frame and are set at the same height.

# **Safety FIRST**

## **AIR COMPRESSOR**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Never point an air nozzle at any part of your body or at anyone.
- Always wear safety glasses when using any tools that require compressed air to operate.



**Safety  
FIRST**

**HOIST**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Know how high you can safely raise a vehicle.
- Make sure vehicle is driven onto the hoist squarely.
- Lifting pads must be on the frame.
- Eye goggles must be worn when working below a vehicle.



**Safety  
FIRST**

**SAFETY STANDS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Must be used on a flat ground surface.
- Must be placed on the frame, sub-frame, or vehicle suspension.



**Safety  
FIRST**

**VARSOL WASH  
STATION**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Use with ventilation.
- Use latex gloves to protect hands.
- Wear eye protection.
- Do not use compressed air to dry a part.



**Safety  
FIRST**

**TIRE (WHEEL)  
BALANCE MACHINE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Remove any loose stones in tread.
- Make sure tire cover safety switch is working.
- Do not lift safety cover until tire has stopped rotating.
- Ensure floor area is dry.

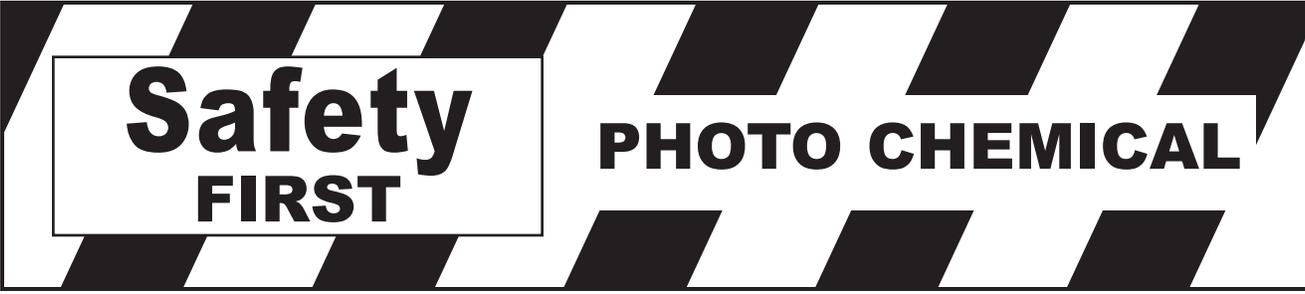


**Safety  
FIRST**

**TIRE MACHINE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Keep floor as dry as possible to avoid slipping.
- Keep hands clear of the rim and tire when reseating the bead.

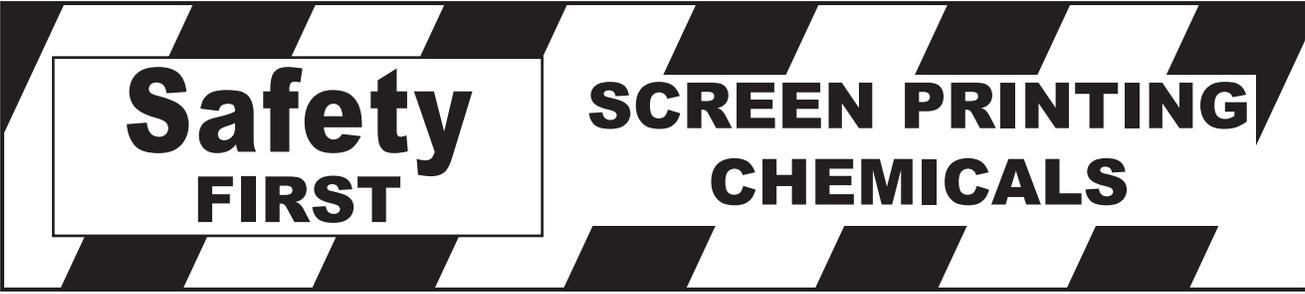


**Safety  
FIRST**

**PHOTO CHEMICAL**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Avoid skin and mouth contact.
- Wash hands after using chemicals.
- Refer to MSDS binder for further information.

A rectangular sign with a black and white diagonal striped border. On the left, a white box contains the text 'Safety FIRST'. To the right, the text 'SCREEN PRINTING CHEMICALS' is written in bold black letters.

**Safety  
FIRST**

**SCREEN PRINTING  
CHEMICALS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Avoid skin and mouth contact.
- Wash hands after using chemicals.
- Refer to MSDS binder for further information.

A rectangular sign with a black and white diagonal striped border. On the left, a white box contains the text 'Safety FIRST'. To the right, the text 'TAPE DISPENSER' is written in bold black letters.

**Safety  
FIRST**

**TAPE DISPENSER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Use caution when cutting the tape.



**Safety  
FIRST**

**SCREEN  
PRINTING INK**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Avoid skin and mouth contact.
- Wash hands after using chemicals.
- Wash hands after using ink.
- Refer to MSDS binder for further information.

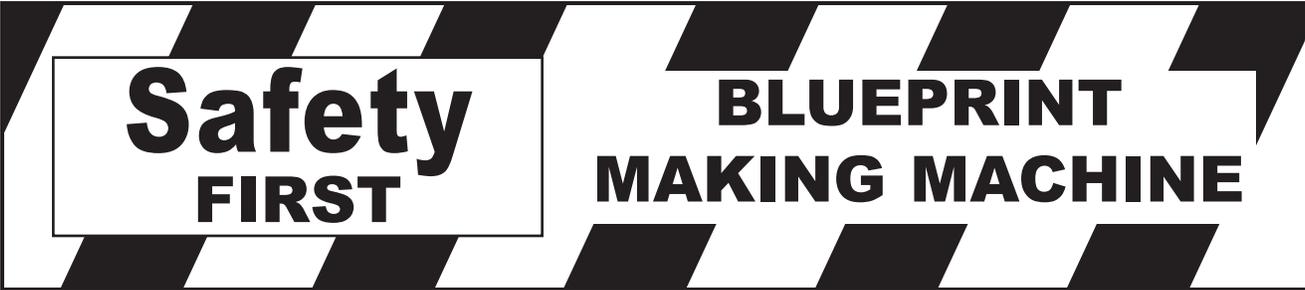


**Safety  
FIRST**

**HEAT PRESS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Do not touch the element and the platen.



**Safety  
FIRST**

**BLUEPRINT  
MAKING MACHINE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Do not look directly at the ultraviolet light.



**Safety  
FIRST**

**DARKROOM  
ELECTRIC EQUIPMENT**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Ensure hands are dry when using any electrical equipment in the darkroom.

# **Safety FIRST**

## **KNIFE, COMPASS & SCISSORS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Handle or carry with sharp end pointing towards the floor.
- Hand or pass sharp objects handle first.
- Avoid touching sharp edges.

# **Safety FIRST**

## **AIRBRUSH & INK**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Avoid skin and mouth contact.
- Do not point the airbrush at anyone.
- Wash hands after using chemicals.
- Refer to MSDS binder for further information.



**Safety  
FIRST**

**PAPER CUTTER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Keep hands out of cutting path.
- On shear style handle, leave in down position when finished.



**Safety  
FIRST**

**UV EXPOSURE  
UNIT**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- If the UV light is visible, do not look at it.



# **Safety FIRST**

## **WASH SINK**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Never point the nozzle at anyone.
- If the floor around the wash sink becomes wet, it should be mopped immediately.

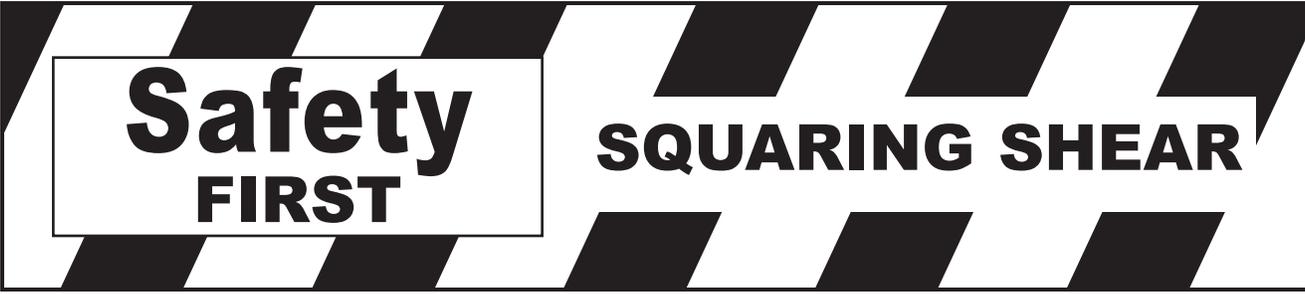


# **Safety FIRST**

## **STATIONARY GRINDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Do not wear gloves.



# **Safety FIRST**

## **SQUARING SHEAR**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Keep fingers and feet away from moving parts.



# **Safety FIRST**

## **DRILL PRESS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Always clamp material.
- Remove chuck key from chuck.

# **Safety FIRST**

## **ETCHANT TANK FERRIC CHLORIDE/ AMMONIA PERSULPHATE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Wear proper safety gear to avoid skin contact (e.g., gloves, apron).
- Refer to "Ferric Chloride" or "Ammonia Persulphate" in MSDS binder for further information.

# **Safety FIRST**

## **JOINTER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Make all adjustments with the power off.
- Joint faces and edges only.
- Do not joint wood less than 12" long.
- Use a hold-down push block for jointing surfaces.



# **Safety FIRST**

## **WOOD LATHE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Check that wood is secure before starting.
- Position the tool rest to within 3 mm (1/8") of the wood.
- Remove the entire tool rest assembly before sanding.



# **Safety FIRST**

## **ROUTER TABLE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Use a router bit guard whenever possible.
- Feed the material in the correct direction.

# **Safety FIRST**

## **THICKNESS PLANER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Do not plane wood less than 12" long.
- If wood gets stuck, turn off power then lower the table.
- Check wood for loose knots and foreign materials before planing.

# **Safety FIRST**

## **BAND SAW**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Lower the guard to within 3 mm (1/8") of the wood.
- Keep hands 5 cm (2") away from the cut line.
- Cut slowly without forcing the material.

# **Safety FIRST**

## **COMPOUND MITRE SAW**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Secure wood against fence.
- Allow the saw blade to reach maximum speed before it contacts the wood.
- Keep hands a safe distance from the blade (15 cm [6"] away).

# **Safety FIRST**

## **RADIAL ARM SAW**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Secure wood against the fence.
- Pull saw forward with a controlled speed.
- Keep hands 12" away from the blade.



# **Safety FIRST**

## **TABLE SAW**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Always use a fence or mitre guide.
- Never stand directly in line with the saw blade.



# **Safety FIRST**

## **SCROLL SAW**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Ensure that the pressure foot is resting on the wood.
- Cut slowly, guiding the wood gently with thumbs and fingers.
- Keep hands a safe distance from the blade—never directly in front.

# **Safety FIRST**

## **SHAPER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with guards in place.
- Feed wood against the rotation of the cutters.

# **Safety FIRST**

## **SPINDLE SANDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Feed wood in the direction opposite to the direction that the spindle turns.
- Use the smallest table insert that can surround the spindle.
- Press wood lightly against the spindle.
- Keep wood tight against the tabletop.

# **Safety FIRST**

## **DRILL PRESS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Tightly secure all materials to the table when drilling.
- Never drill metals without proper clamps.
- Adjust table height and make depth adjustments before power is turned on.

# **Safety FIRST**

## **COMBINATION BELT/DISC SANDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Hold wood flat against the tabletop.
- Press wood lightly against the belt/disk.
- Call the teacher if the belt is not tracking straight.

# **Safety FIRST**

## **MORTISING MACHINE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

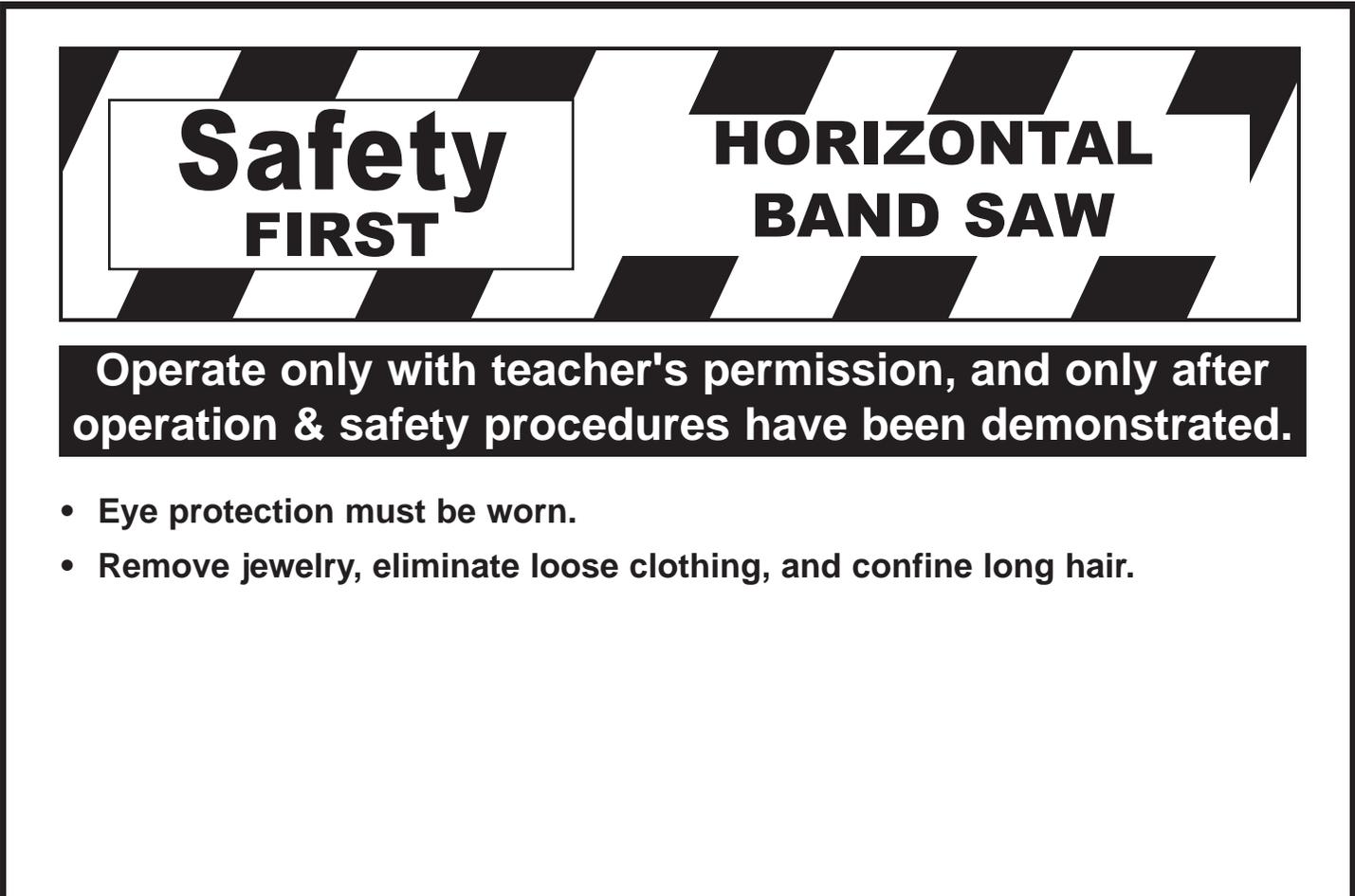
- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Keep a slight gap between the hollow chisel and the bit to avoid overheating.
- Tightly secure wood to the tabletop.
- Make all table and depth adjustments with the power off.

# **Safety FIRST**

## **BENCH GRINDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with shield in place.
- Keep the tool rest within 3mm (1/8") of the grindstone.
- Do not grind against the side of the stone.

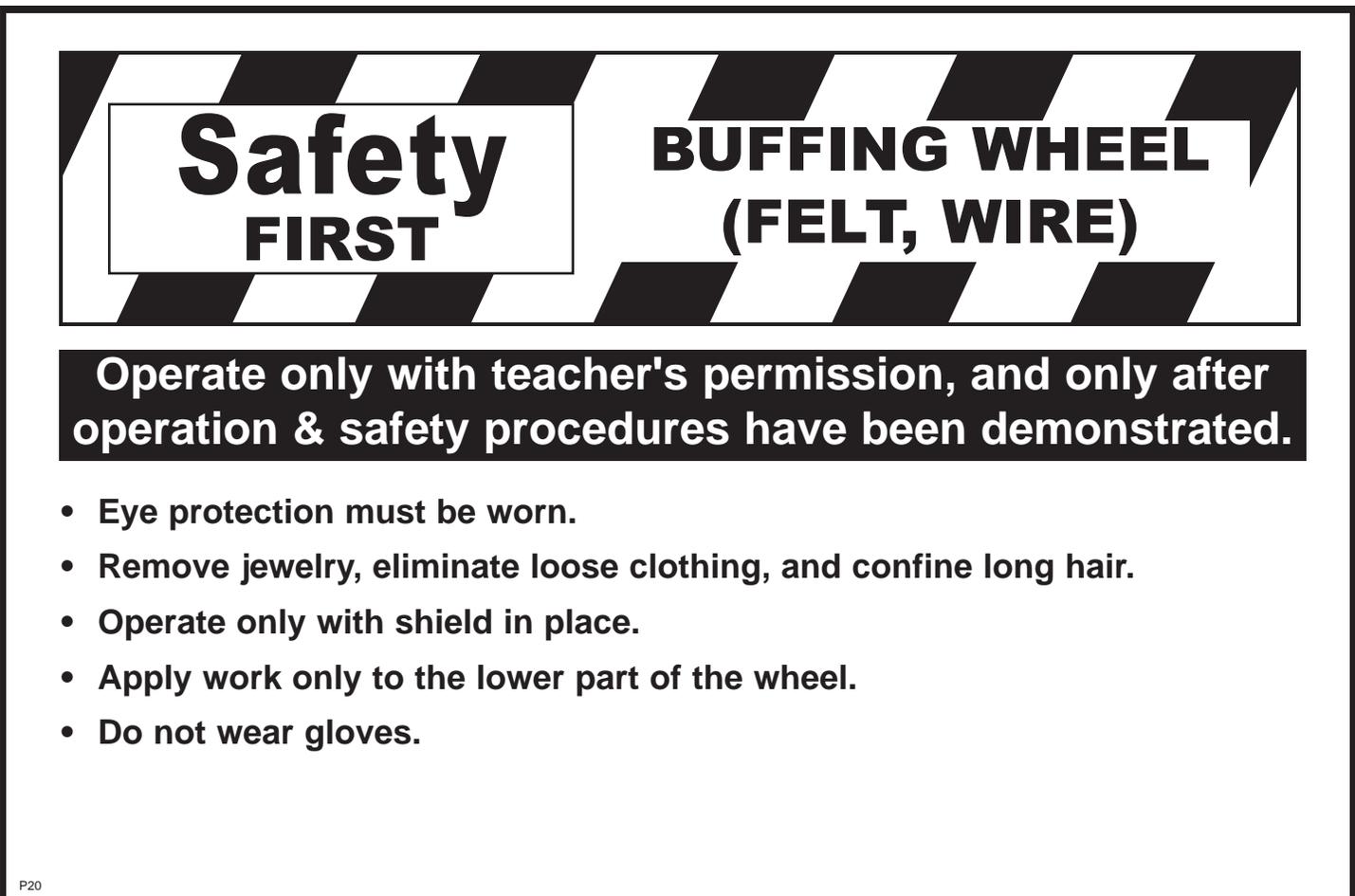


**Safety  
FIRST**

**HORIZONTAL  
BAND SAW**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.



**Safety  
FIRST**

**BUFFING WHEEL  
(FELT, WIRE)**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Operate only with shield in place.
- Apply work only to the lower part of the wheel.
- Do not wear gloves.

# **Safety FIRST**

## **HAND TOOLS**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Only use hand tools for the job they were designed to do.
- Never use cheater bars, handles, or pipes to gain additional leverage.

# **Safety FIRST**

## **CRUCIBLE FURNACE/ ENAMELING FURNACE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn (e.g., face shield).
- Wear proper safety gear (e.g., apron, gloves).
- Remove jewelry, eliminate loose clothing, and confine long hair.
- **ONLY** the instructor pours molten metal.



**Safety  
FIRST**

**ARC WELDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn (e.g., helmet).
- Wear proper safety gear (e.g., gloves, apron).
- Remove jewelry, confine long hair.
- No nylon or loose clothing.
- Make sure area is well ventilated.



**Safety  
FIRST**

**SAND BLASTER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.



**Safety  
FIRST**

**BAR FOLDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Do not exceed capacity of machine.

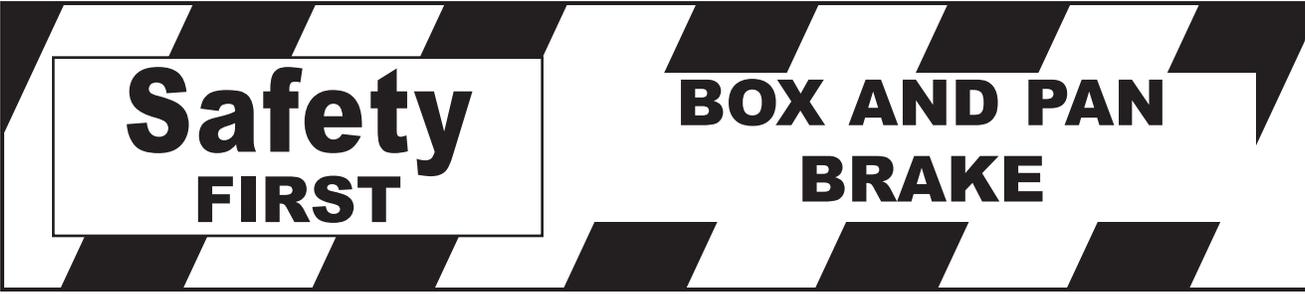


**Safety  
FIRST**

**SLIP ROLL**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Do not exceed capacity of machine.

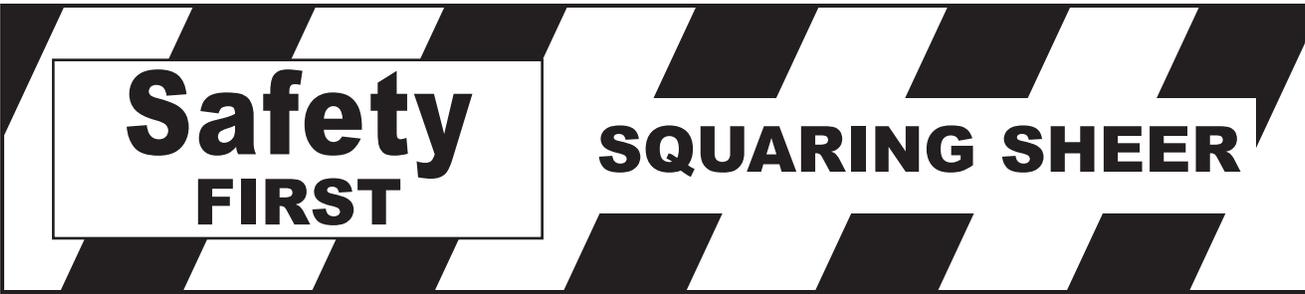


**Safety  
FIRST**

**BOX AND PAN  
BRAKE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Do not exceed capacity of machine.
- Keep machine in either open or closed position.

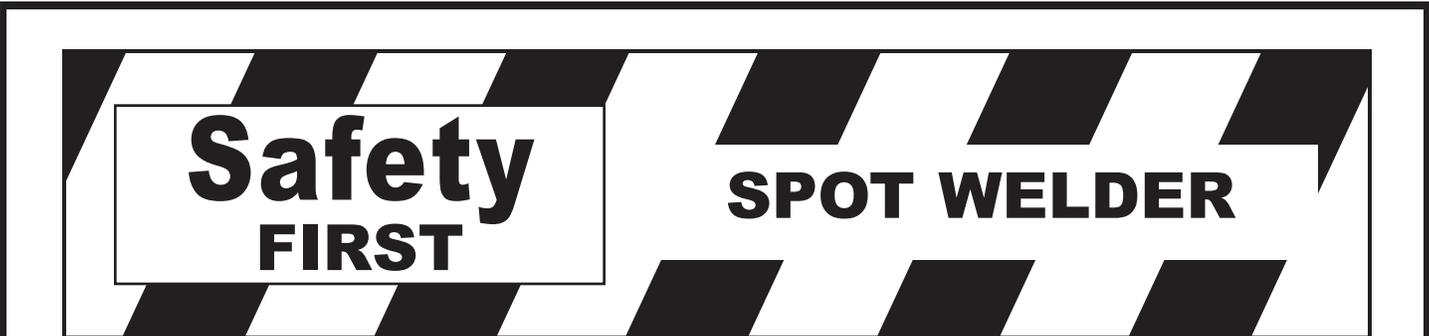


**Safety  
FIRST**

**SQUARING SHEER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Do not exceed capacity of machine.



**Safety  
FIRST**

**SPOT WELDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn (e.g., face shield).
- Wear proper safety gear (e.g., gloves, apron).
- Remove jewelry, eliminate loose clothing, and confine long hair.



**Safety  
FIRST**

**OXYGEN  
ACETYLENE OUTFIT**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn (e.g., goggles with a #5 lens).
- Wear proper safety gear (e.g., gloves, apron).
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Make sure area is well ventilated.
- Do not exceed 15 psi on acetylene regulator.

# **Safety FIRST**

## **MIG WELDER**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn (e.g., welding helmet).
- Wear proper safety gear (e.g., gloves, apron).
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Make sure area is well ventilated.

# **Safety FIRST**

## **METAL LATHE**

**Operate only with teacher's permission, and only after operation & safety procedures have been demonstrated.**

- Eye protection must be worn.
- Remove jewelry, eliminate loose clothing, and confine long hair.
- Remove chuck key from chuck.
- Start at low speed.
- Ensure work is securely in the chuck or between centres before starting.



**Safety  
FIRST**



**CAUTION**

# **HOT METAL AREAS**



**Safety  
FIRST**



**FLOORS**

- Keep floors free of debris.
- Clean up messes/spills immediately.
- Use "floor-dry"/absorb-all" for oil-based spills.
- Use plenty of water for acid spills.
- Refer to MSDS binder for further information regarding spills/clean-ups.