

Unit B: Safety in Agricultural Mechanics

Lesson 2: Using Personal Safety in Agricultural Mechanics

Terms

- ▶ Decibel
- ▶ Focal color
- ▶ Noise duration
- ▶ Noise intensity

Creating a safe place to work

- ▶ Install all electrical devices according to the standards of the National Electrical Code.
- ▶ Install all machinery according to the manufacturer's specifications.
- ▶ Keep all tools and equipment adjusted or fitted according to specifications.
- ▶ Use tools and equipment skillfully.

Creating a safe place to work

- ▶ Provide proper storage for tools, materials, fuels, chemicals, and waste materials.
- ▶ Keep work areas clean and free of tools, materials, grease, and dirt.
- ▶ Keep moving parts properly shielded.
- ▶ Manage all situations to avoid the likelihood of falling objects.

Creating a safe place to work



- ▶ Avoid the flight path of objects that could be thrown by machines.
- ▶ Protect eyes, face, feet, and other parts of the body with protective clothing and devices.

Creating a safe place to work

- ▶ Move slowly enough to avoid creating hazards to self and others.
- ▶ Read and follow all precautions.

What does each safety color mean and where is it used?



Colors in the coding system are used to:

- ▶ Alert people to danger or hazards.
- ▶ Help people locate certain objects.
- ▶ Make the shop a pleasant place to work.
- ▶ Promote cleanliness and order.
- ▶ Help people react quickly to emergencies.

Color Codes

- ▶ Red is used to identify areas or items of danger or emergency such as safety switches and fire equipment.

Color Codes

- ▶ Orange is used to designate machine hazards such as edges and openings.
- ▶ Orange means warning.
- ▶ Orange is also used as background for electrical switches, levers, and controls.

Color Codes

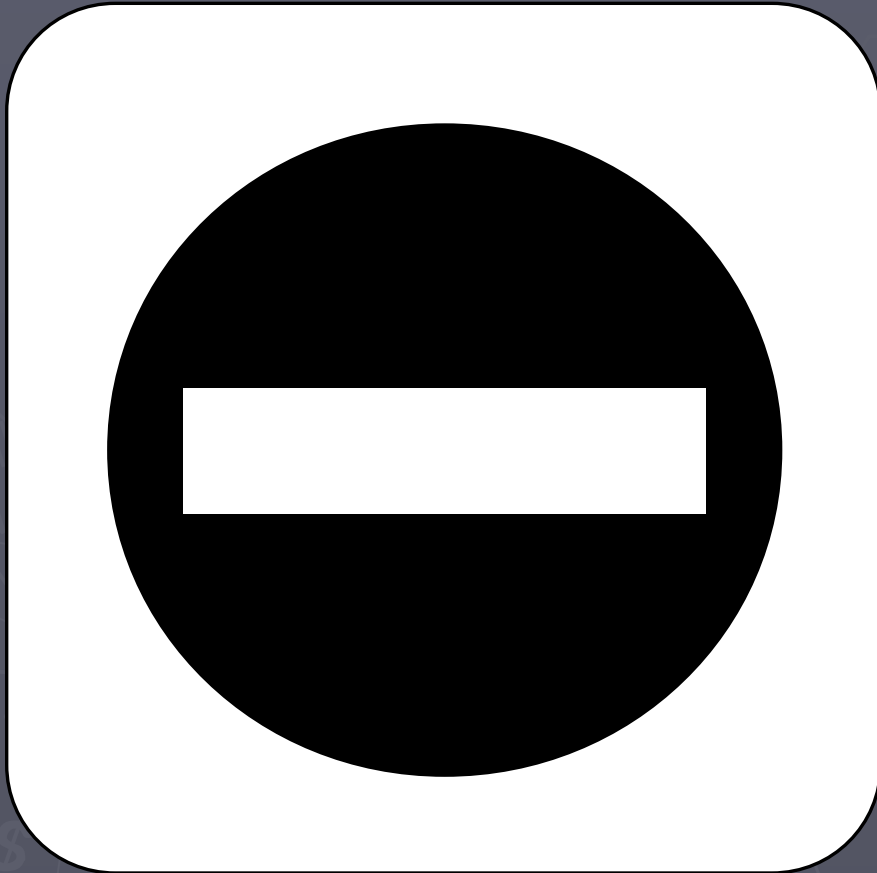


- ▶ Yellow, like the amber traffic light, means caution.
- ▶ It is used to identify parts of machines, such as wheels, levers, and knobs that control or adjust the machine.

Color Codes

- ▶ Yellow and black stripes are used in combination to mark stairs, protruding objects, and other stationary hazards
- ▶ Blue is used for signs if a warning or caution is intended.

Color Codes



- ▶ These are informational signs such as “OUT OF ORDER” or “DO NOT OPERATE”.
- ▶ Such signs are made of white letters on a blue or black background

Color Codes

- ▶ Safety green is a special shade of green and indicates the presence of safety equipment, safety areas, first aid, and medical practice.
- ▶ A black and yellow diagonal-striped pattern is designated as the marking for radiation hazards.

Color Codes

- ▶ White is used to mark off traffic areas. White arrows indicate the direction of traffic.
- ▶ White lines also mark work areas around objects in the shop.
- ▶ Yellow may be used in place of white to mark areas and lanes.

Color Codes

- ▶ Gray is used on floors of work areas in the shop. It is a restful color and provides good contrast for other safety colors.
- ▶ It is used to paint body areas of machines and may be used on the tabletops if painting is desired.

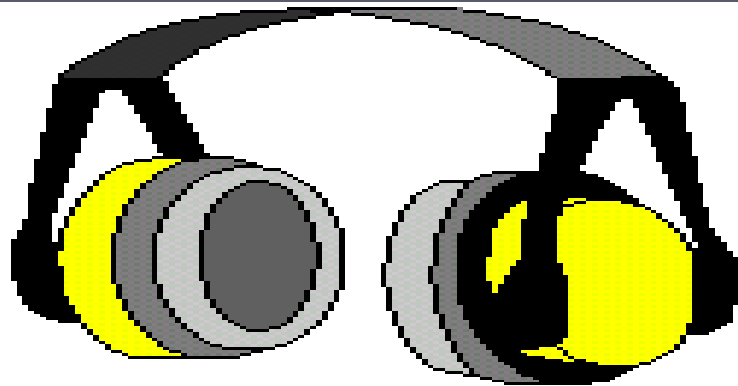
What protective clothing and devices should be worn in the shop?

- ▶ Eye Protection
- ▶ Hearing Protection
- ▶ Mask and Respirator
- ▶ Protective Clothing
- ▶ Welding Shop Protective clothing

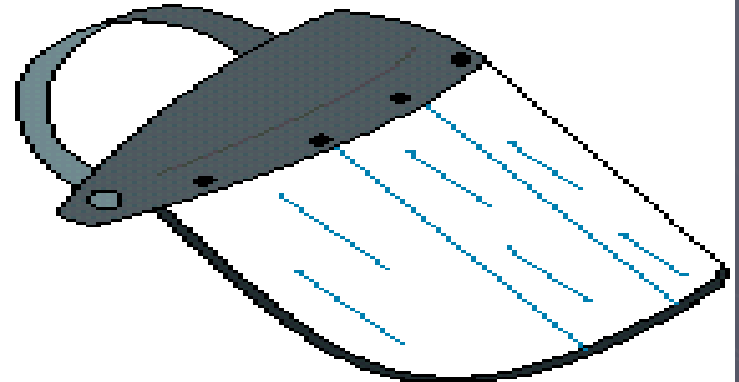


Hard Hat
and Respirator

Safety Devices



Ear (hearing) Muffs



Face Shield



Leather Gloves
Protective Clothing
Welding Shield



Safety Glasses
with sideshields and brow guard

Review and Summary

- ▶ List several ways to create a safe place to work.
- ▶ Describe what each safety color means and where it is used.
- ▶ List the appropriate protective clothing and devices for personal protection use while out in the shop.