

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



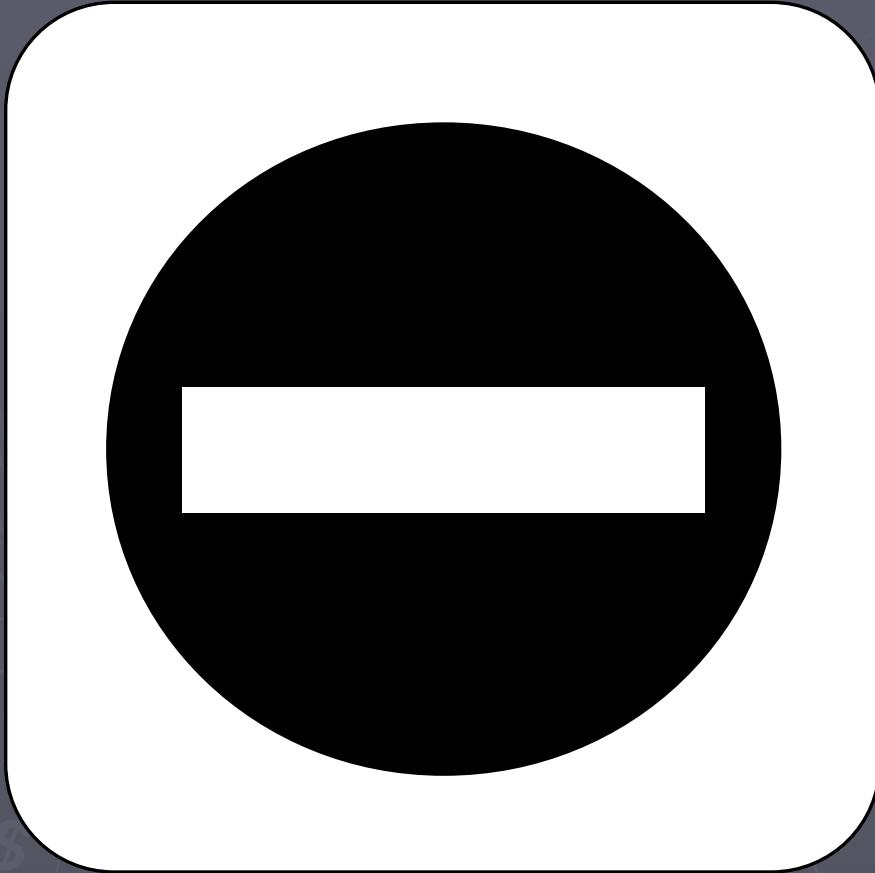
- ▶ Yellow, like the amber traffic light, means caution.

- ▶ 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

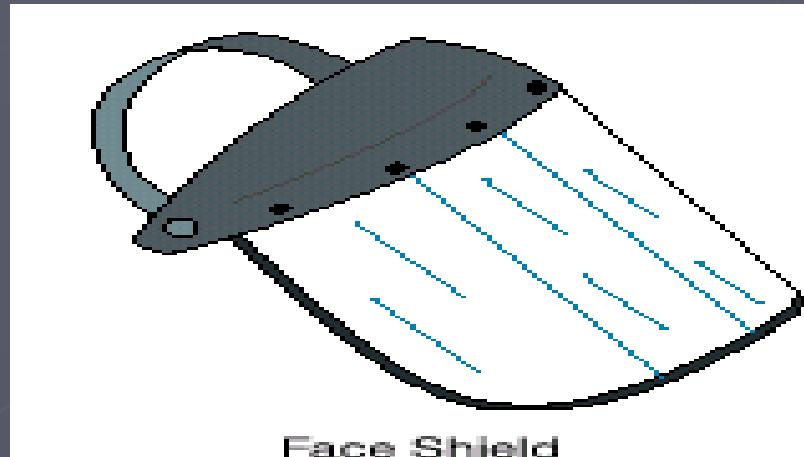


**Hard Hat
and Respirator**

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.