

# SECTION 2 CHAPTER 3

### **SHOP AND YARD SAFETY**

**Purpose** This chapter includes general safety requirements for shop and yard

operations.

**Scope** This applies to all Company yards.

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### **Marking Safety Zones**

#### **Purpose**

This document outlines the requirements for marking safety zones in the yards/buildings.

# Marking passageways

Aisles and doorways must:

- be clearly designated and permanently marked
- provide safe clearance for equipment
- be kept clear at all times to allow unhindered passage

#### **Marking exits**

Exits and emergency evacuation routes must be:

- clearly marked
- kept clear at all times to allow unhindered passage
- Interior doors that are not exits must be clearly marked "Not an Exit"

### Marking loading zones

Loading zones must be:

- clearly marked
- kept free of unauthorized personnel
- kept clear at all times to allow safe use of equipment



### **Loading and Unloading Safely**

#### **Purpose**

This document describes the requirements for wearing personal protective equipment, handling materials safely, and using equipment.

# Personal protective equipment

While working in the yard, employees **shall** wear safety glasses. Where PPE is required by signage, employees shall wear:

- gloves
- coveralls or suitable clothing
- steel-toed boots
- hard hats

Additional personal protective equipment may be required depending on the material being handled. See the MSDS sheets for chemicals to determine whether additional PPE is required.

# Handling materials safely

When handling materials:

- always use proper PPE
- use proper lifting technique
- use the proper equipment

# Using equipment

Use the proper equipment to handle awkward, bulky, or heavy loads.



### **General Safety and Housekeeping**

### Shop Safety Rules

- When checking radiator coolant, turn pressure cap slightly to release pressure before removing cap completely.
- When raising a vehicle, chock wheels. Do not extend jack beyond safe limits. Be sure the vehicle hand brake or emergency brake is set.
- When working under a vehicle, after raising vehicle to work height, jack stands shall be used.
- Tires mounted on multi-piece rims shall be replaced with single piece rims immediately. Always inflate tires in a safety cage, (unless mounted on a vehicle) use a clip-on air chuck and stand aside.
- Always keep guards in place when operating **ANY** tool, piece of equipment or machinery.
- Use safety glasses and a face shield when grinding, using a drill press, chipping or performing any other task that may generate flying debris.
- Always wear approved welding hood when arc welding. When acetylene welding wear approved goggles. Wear proper eye protection when in the vicinity.
- Cutting goggles that seal around the eyes must be worn when operating cutting torches.
- Keep a fire extinguisher in close proximity when welding or cutting.
- Any welding or cutting on any closed vessel, (frac tank, tank trailer, etc.) shall have prior Line of Business VP approval.
- Do not use any flammable fluids, including cleaning fluids, in the vicinity of open flames or high heat sources.
- Obey "No Smoking" signs. Smoke in outdoor designated areas only.
- Do not use air under pressure for cleaning your clothes or body.
- All compressed gas cylinders will be maintained and in an upright position and secured in place.
- Check all electrical equipment for proper connections, insulation and grounding.
- When using a extension or drop light under a vehicle, protect the lamp from breakage with a lamp guard.
- Do not attempt electrical repairs except on 12 or 24 volt systems.
- Report any defective electrical equipment immediately. Follow lock out/tag out procedures.
- Use tools for the purpose they were designed. Use the right tool for the job.
- Keep chisels sharp and mushroomed heads dressed.
- Keep punches straight with square faces, properly suited for the work being done.
- Hammering on hardened surfaces with a ball peen hammer is dangerous. Use a soft-faced mallet whenever possible.



### **Shop Safety Rules Continued**

- Discard open end wrenches with spread jaws.
- Keep tools in clean condition and in a place where they will not fall and injure someone.
- When using a torch, point flames away from yourself and others. Shut off when not in use.
- Keep all flammable materials and fluids in their proper containers.
- Keep exit doors clear, do not block them.
- If a fire should occur in your immediate area, sound the alarm first and then fight the fire only in its insipient stage.
- All premises must be kept in a clean and orderly condition at all times.
- All electrically operated tools must be equipped with proper ground wire.
- Use chock blocks on every truck or vehicle brought into the shop.
- Tools rests must be adjusted to within 1/8 inch of the stone/brush on bench grinders. Safety glasses and full face shields are required when in use.
- When compressed gas cylinders are transported or stored, ensure cylinder caps are in place. Cylinders shall be upright and secured. Store oxygen cylinders separate from fuel-gas cylinders or combustible materials a minimum distance of 20 feet or by a non-combustible barrier at least 5 feet high having a fire-resistance rating of at least one-half hour. OSHA 1910.253 (b) (4) (iii)
- Only personnel trained in the operation of a forklift are authorized to operate a forklift.
- Maintain and inspect forklifts each month as required by company procedures.
- Passengers are prohibited on forklifts and there shall be NO riding or personnel lifting on the forks. Seatbelts must be worn.



#### **Battery Safety**

Every automotive battery cell contains a highly explosive mixture of oxygen and hydrogen gas. If an external flame or spark detonates gas within the case, a geyser of dilute sulfuric acid (electrolyte) is expelled, with the battery case, in some instances, acting like shrapnel.

- Batteries must be stored or charged away from hot work areas.
- Always remove the negative battery cable first when disabling a vehicles electrical system or removing a battery. Always connect the positive battery cable first when reconnecting or installing a battery.
- Do not rest or lay a metal tool or piece of equipment on a battery case where it could contact both posts and cause a spark.
- Never connect or disconnect a live battery charger to a battery. Always turn the charger off before connecting or disconnecting to the battery.
- Never pour water into concentrated sulfuric acid because it generates a violent reaction.
- Safety glasses or goggles must always be worn when working with batteries. This includes testing, charging, connecting/disconnecting or jump starting.
- When carrying batteries keep them level.
- DO NOT smoke around batteries that are in storage or while being charged.
- Eyes exposed to battery acid must be flushed with clean water for a minimum of 15 minutes. Do not apply eye drops or other medications not approved by a medical physician.
- Skin exposed to battery acid must be thoroughly washed with clean water. It is recommended that acid spilled on the skin be neutralized with baking soda.