HAZARD RECOGNITION

BUS industry SAFETY council



HAZARD RECOGNITION

Identifying Hazards

- Facility inspections
- Accident investigations

- Use the facility inspection checklist as a guide.
- Inspect each item.
- Identify hazards in the workplace.
- Update checklist as needed. *Customize to your operation*.
- Address system not just the symptoms.
- Prioritize & develop an action plan. Implement.

Inspector(s):			Date:
heck "X" under the Y for Satisfactory Condition observed; N for Improvement F	Recommer	nded Co	andition observed.
Housekeeping	Yes	No	Comments
Shop appearance reasonably neat and orderly			
Floors/platforms free of liquids, debris and tripping hazards			
Work areas clear of debris, tools & parts not in use			
Work areas are adequately illuminated			
New and used batteries are properly stored			
Personal Protective Equipment and First Aid	Yes	No	Comments
Required PPE available and stocked			
PPE is clean and in good useable condition			
First aid and body fluid kits stocked and available			
Eyewash solution stocked and available			
Eyewash station in good condition, cleared and labeled			
Exits	Yes	No	Comments
Doors free and clear of obstructions; easily open outward			
Exit signs at each exit and illuminated by a reliable light			
Exit doors are not locked when the building is occupied			
Fire Protection	Yes	No	Comments
Extinguishers mounted, accessible and labeled			
Extinguishers inspected monthly			
Extinguishers inspected/serviced annually			
s the maximum travel distance between extinguishers 75'			
Emergency lighting available and operational			
Location Safety	Yes	No	Comments
Adequate lighting for vehicles/parking			
Location is free of potholes and ruts			
Speed limit posted and followed			
Flammable and Combustible Materials	Yes	No	Comments
All chemical containers in shop correctly labeled			
Flammable & combustible materials stored properly			
Oily rags/combustible materials stored in covered containers			
"Open top" containers emptied after use			
Dispensing drums of flammables are bonded and grounded			
Chemical inventory list and SDS book available and updated			

WALKING AND WORKING SURFACES

Housekeeping

Obstructions, clutter, hazards, etc.







All places of employment, aisles, storerooms, etc. kept clean, orderly and in a sanitary condition.

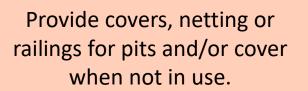
Fall Protection

Provide fall protection for open sided floor or platform above 4 feet

 A toeboard required when falling material could create a hazard









EMERGENCY ACTION AND FIRE PREVENTION

Means of Egress







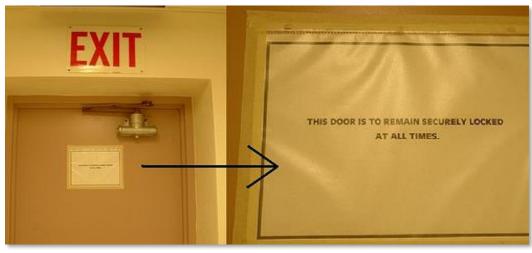
Free and unobstructed

Able to open at all times without keys, tools or special knowledge

Exit Doors







EMERGENCY ACTION AND FIRE PREVENTION

Exit Markings

- Clearly visible and marked "Exit"
- If direction of exit is not immediately apparent, signs posted indicating direction
- Doorways along an exit access labeled









- Exit signs illuminated by a reliable source.
- Externally and internally illuminated signs visible in both normal and emergency light mode.

Exit Lighting

Periodic testing of emergency lighting

 30 second (monthly) and 90-minute (annual) testing





Diagnostic LED which illuminates to convey test results





Self-diagnostic equipment can be setup to automatically perform routine tests.

A visual inspection is still required.

EMERGENCY ACTION AND FIRE PREVENTION

Fire Extinguishers and Fire Protection



Blocked





Un-mounted



Unmarked



Inspections (annual/monthly)



Annual inspections



Blocked sprinkler heads

Chemical labeling and Safety Data Sheets





Unlabeled chemical containers and tanks



Flammable Storage Cabinets



Control quantities outside of storage areas

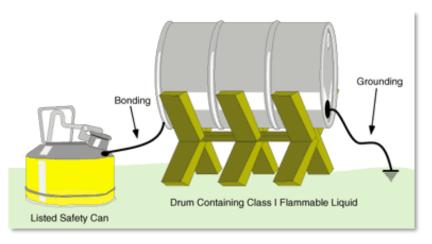


Ingestion (Swallowing):

This product may be harmful or fatal if swallowed. This product may cause nausea, vomiting, diarrhea and restlessness. Do not induce vomiting. Do not give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is unconscious or drowsy, place on the left side with the head down. Seek immediate medical attention.

Dispensing Flammable Liquids

Bonding and grounding









Category 1 or 2 flammable liquids or category 3 flammable liquid with a flashpoint below 100 °F

• GHS Category: 1, 2 or 3

NFPA Rating: 3 or 4

HMIS Rating: 3 or 4













Compressed Gas Cylinders



Backflow Valves





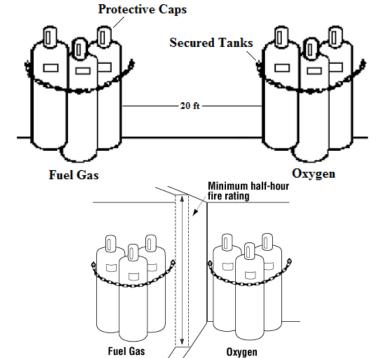


Unsecured cylinders





Missing Valve Caps





Flashback Arrestors



Can you spot the hazards?



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High Voltage

Oxygen

- Unsecured
- Missing Caps

Acetylene

- Unsecured
- Missing Caps



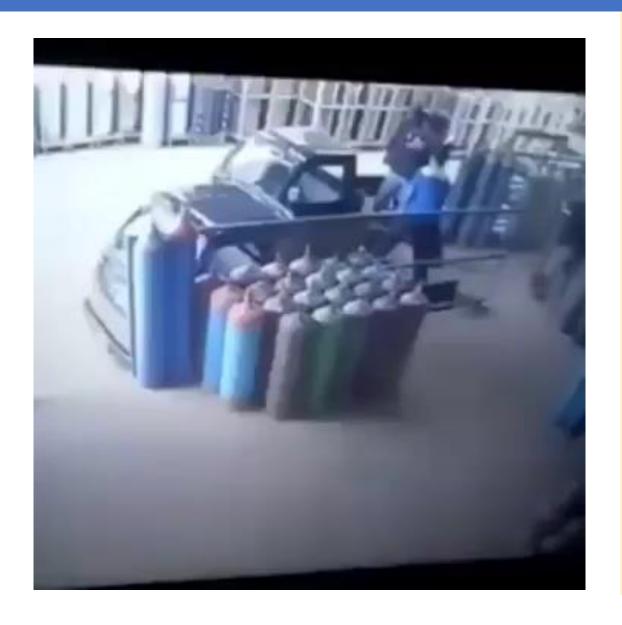
Compressed Gas Cylinders



Safe work practices







Compressed Gas Cylinders

Tanks stored with relief valve in communication with vapors



Incorrect storage



Correct storage







Propane tank storage

Electrical Panels





Inserts missing inside panel box



Labeled circuits





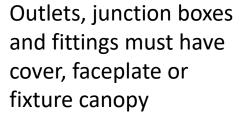
Blocked electrical panels and switches



Covers, Faceplates & Openings













Wiring and Damaged Electrical Equipment







"daisy chaining"





Damaged cords and equipment



Overloaded outlet



Removing the ground

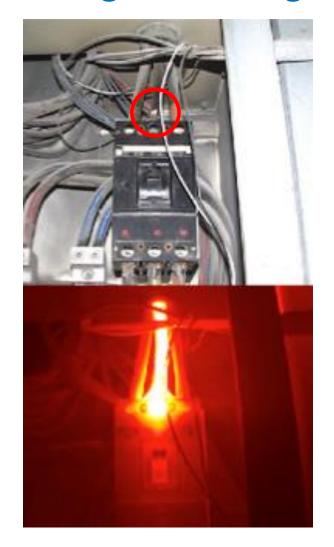


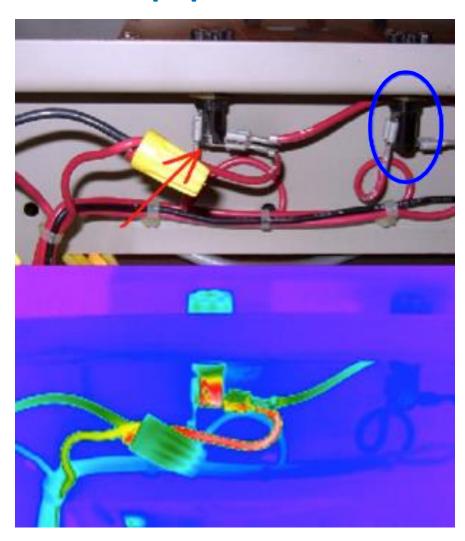
- Temporary wiring only during periods of repair, construction, remodeling, or demolition.
- Not to be used as a substitute for fixed wiring of a structure.

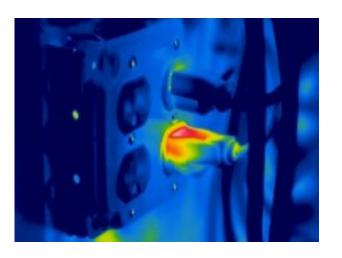


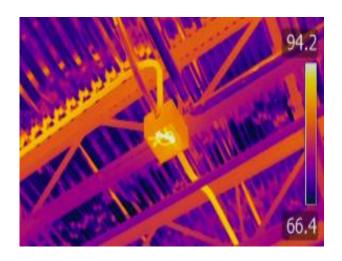
Spliced electrical cords

Wiring and Damaged Electrical Equipment









Working space and labeling





Blocked panels/switches





Panel and switch labeling





VEHICLE LIFTS AND WHEEL RIM MAINTENANCE

Vehicle Lift Safety

- ALI Certified "Gold Label"
- Lift inspections
- Employee training and information



Wheel Rim Maintenance

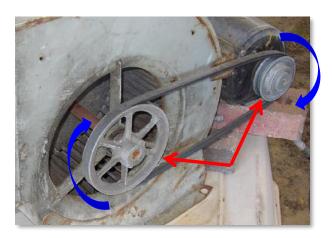
- Operating procedures and training
- OSHA posters
- Equipment and inspections



MACHINERY AND MACHINE GUARDING

Machine Hazards

- Point of operation
- Power transmission equipment
 - Flywheels, pulleys, sprockets & chains, etc.
- Moving parts



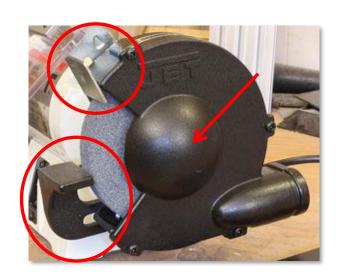
In-running nip points

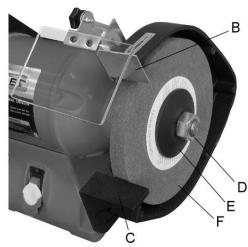


Point of operation

Bench Grinder (abrasive wheel)

- Work rest adjusted to 1/8" of wheel
- Tongue guard adjusted to 1/4" of wheel
- Side guards must cover flange, spindle end and nut





HAND AND POWER TOOLS

Compressed Air

When pressurized air greater then 30 psi is used for cleaning, the nozzle needs a pressure relief device that limits 30 psi



Male end tips

Safety nozzles

Damaged Tools and Equipment









HAND AND POWER TOOLS

Other Hand-Held Equipment

Jacks and Jack Stands







Place damaged or defective equipment out of service



Legible capacity labels



PORTABLE LADDERS





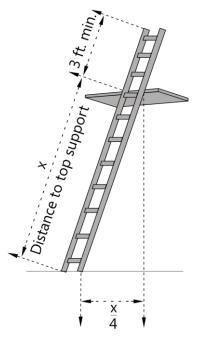
















PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment

Damaged? Usable? Stocked? Available? Proper?

















QUESTIONS

Contact Information

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