HAZARD RECOGNITION











HAZARD RECOGNITION

Identifying Hazards

- Facility inspections
- Accident investigations

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

| Inspector(s): | | | Date: |
|--|----------|---------|-------------------|
| eck "X" under the Y for Satisfactory Condition observed; N for Improvement F | Recommer | nded Co | ndition 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 | | | |
| ls the maximum travel distance between extinguishers 75' | | | |
| Emergency lighting available and operational | | | |
| Location Safety | Yes | No | Comments |
| Adequate lighting for vehicles/parking | | | |
| ocation 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.

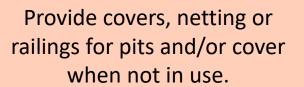
Fall Protection

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

 A toeboard required when falling material could create a hazard



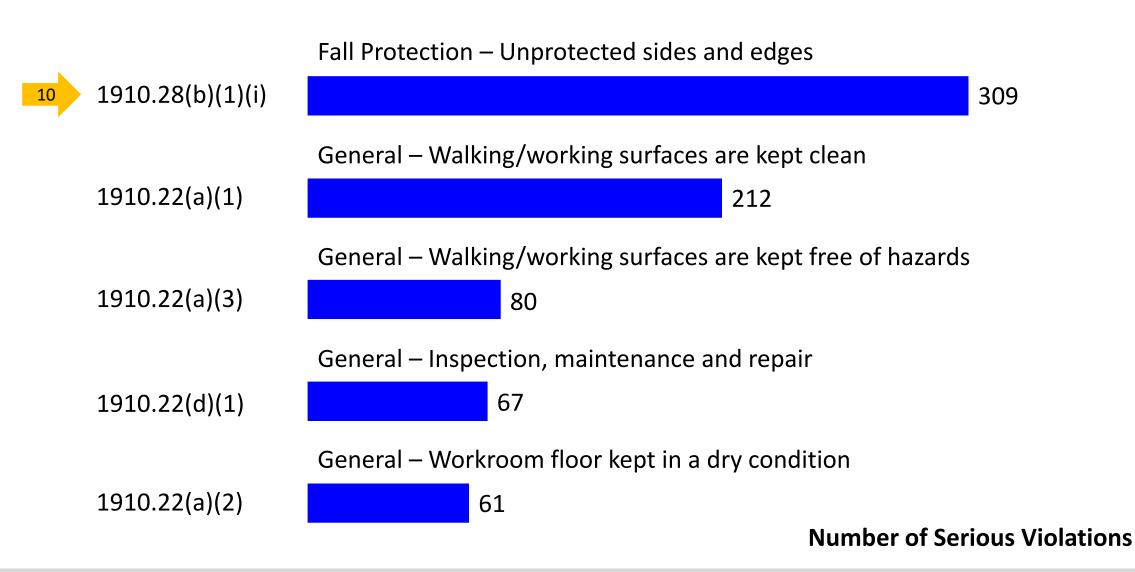






WALKING AND WORKING SURFACES

Walking and Working Surfaces [1910.21 - .30]



Means of Egress







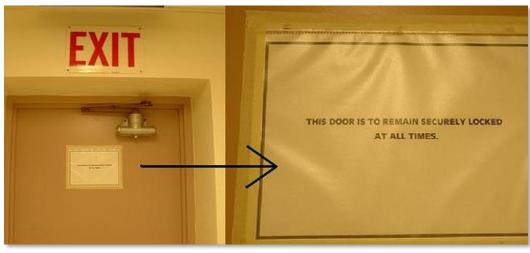
Free and unobstructed

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

Exit Doors







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.

Fire Extinguishers and Fire Protection



Blocked



Un-mounted





Unmarked



Inspections (annual/monthly)



Annual inspections

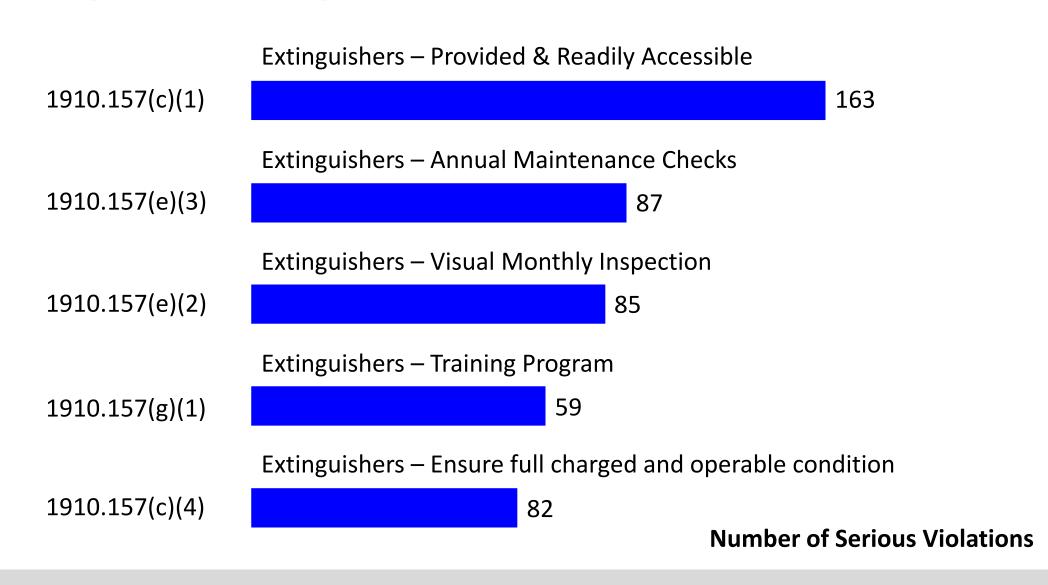


Blocked sprinkler heads

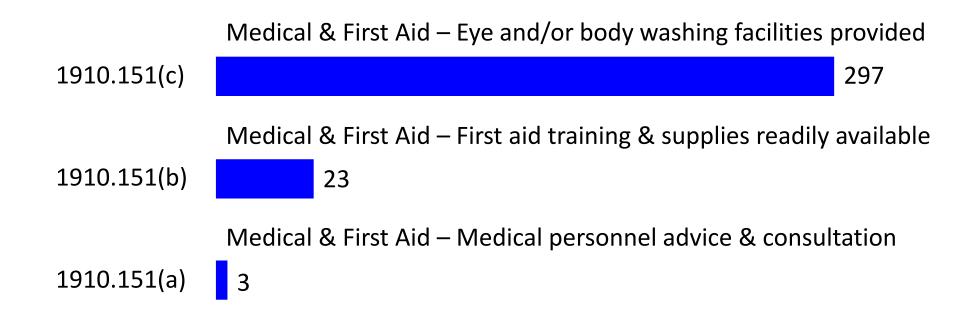
Exit Routes and Emergency Planning [1910.33 - .39]



Fire Protection [1910.155 - .165]



Medical and First Aid [1910.151 - .152]



Chemical Storage and Labeling







Unlabeled chemical containers



Storage tanks and labeling

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.



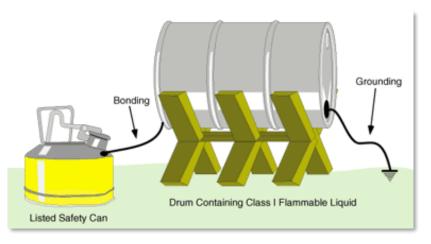




Control quantities outside of storage area and cabinets

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







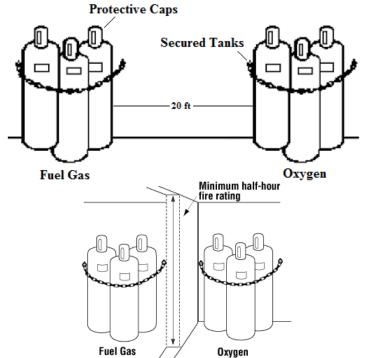


Unsecured cylinders





Missing Valve Caps





Can you spot the hazards?



Aigh Voltage

High Voltage

Flammable Liquid

Acetylene

Oxygen

Unsecured

• Unsecured

Missing Caps

Missing Caps

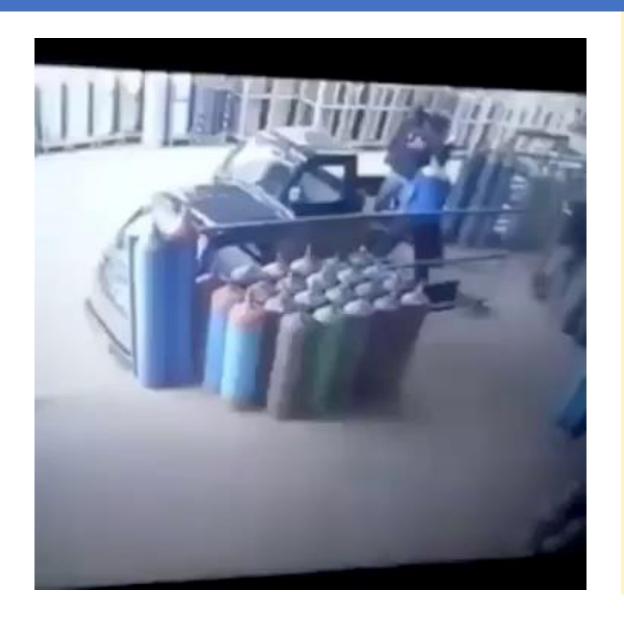
Compressed Gas Cylinders



Safe work practices

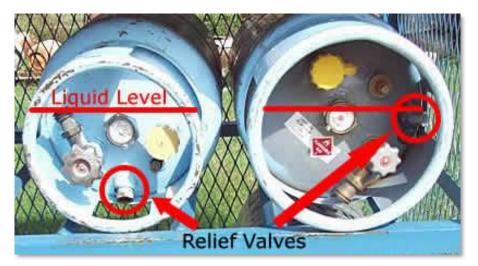






Compressed Gas Cylinders

Tanks stored with relief valve in communication with vapors



Incorrect storage



Correct storage

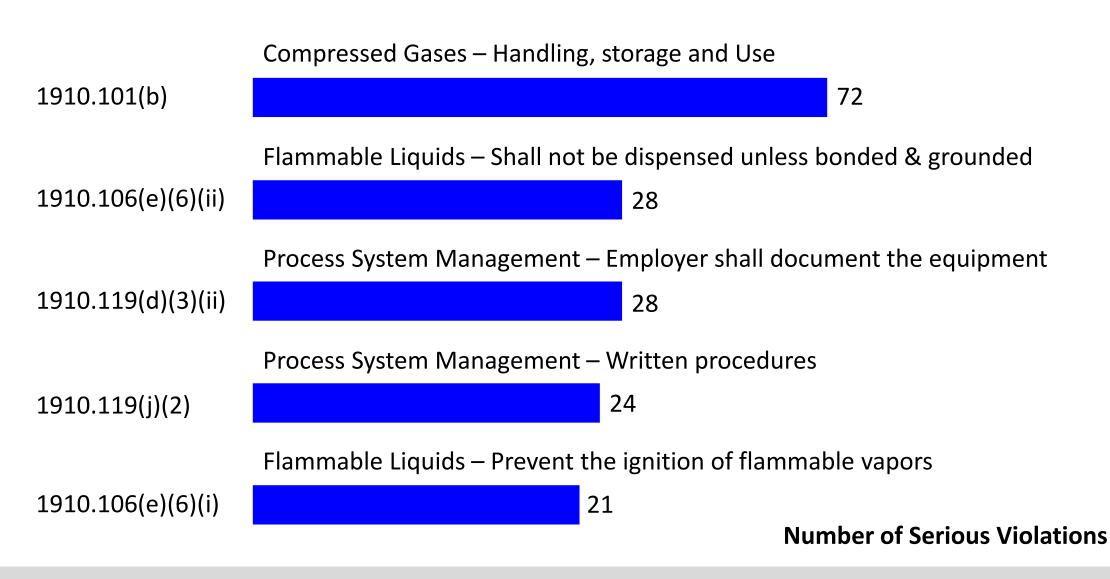




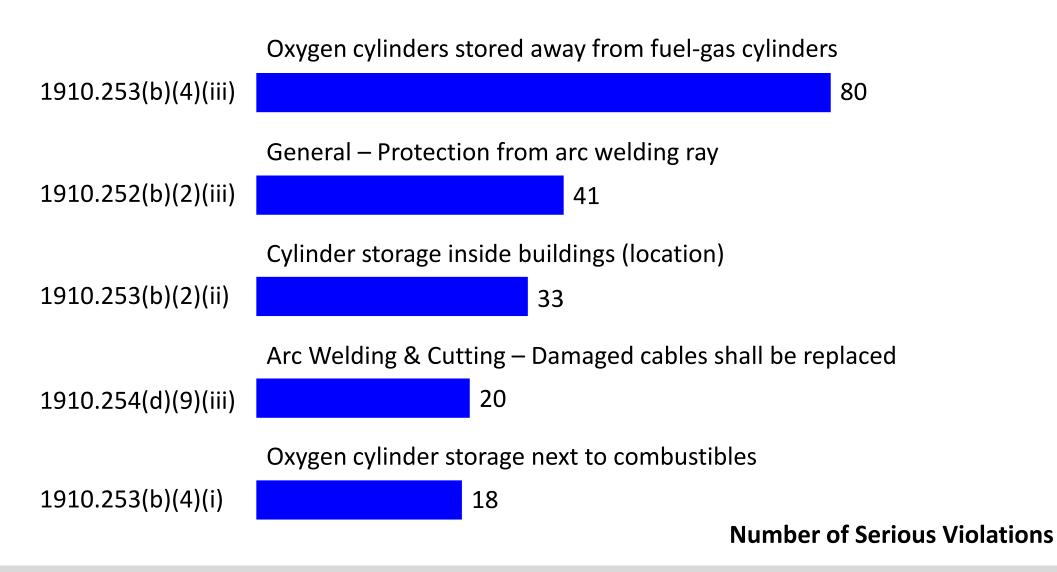


Propane tank storage

Hazardous Materials [1910.101 - .126]



Welding, Cutting & Brazing [1910.251 - .255]



Electrical Panels





Inserts missing inside panel box



Labeled circuits





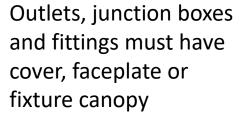
Blocked electrical panels and switches



Covers, Faceplates & Openings













Wiring and Damaged Electrical Equipment







"daisy chaining"





Damaged cords and equipment







Removing the ground

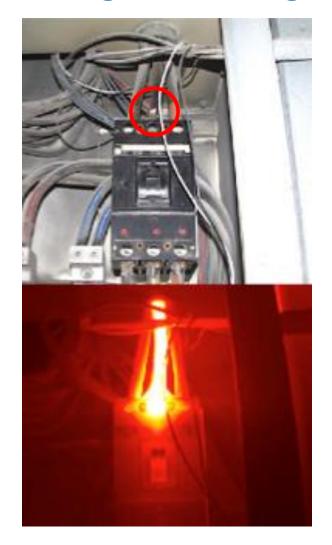


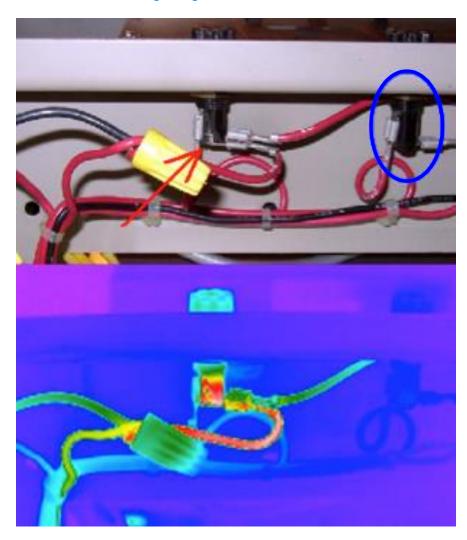
- Temporary wiring only during periods of repair, construction, remodeling, or demolition.
- Not to be used as a substitute for fixed wiring of a structure.

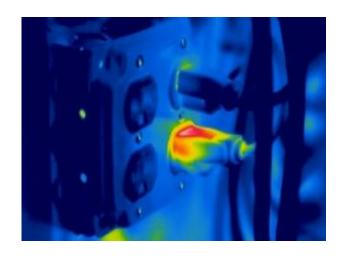


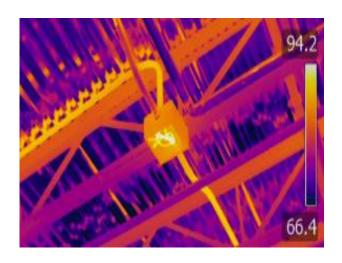
Spliced electrical cords

Wiring and Damaged Electrical Equipment

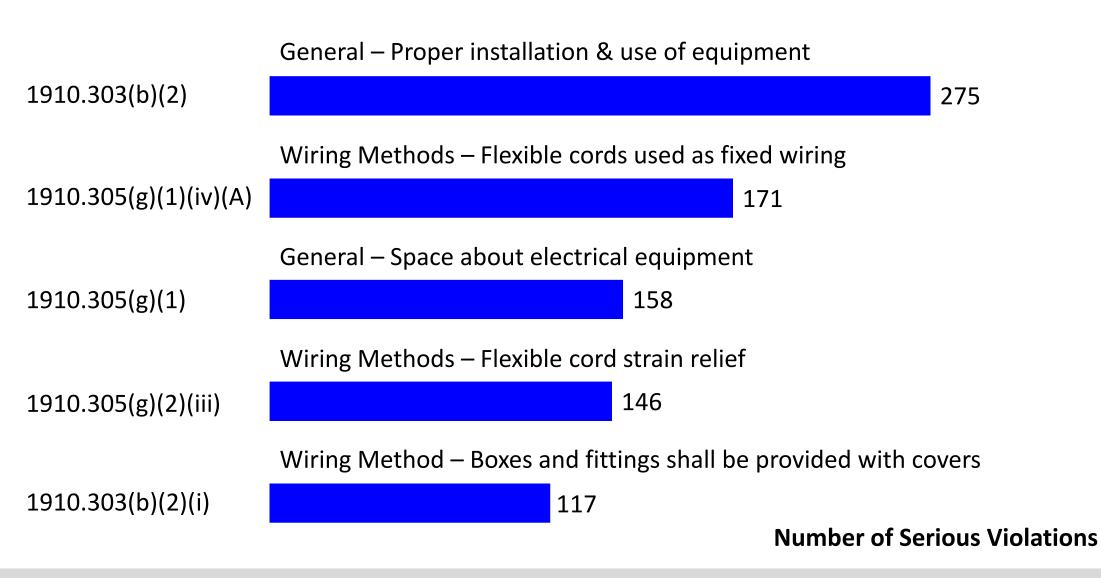








Electrical [1910.301 - .399]



VEHICLE LIFTS



Vehicle Lift Safety

- Certified Automotive Lift (Gold Label)
- Qualified Operator Training
- Automotive Lift Safety Tips Placard
- Safety/Warning Decals
- Vehicle Lift Inspections
 - Pre-use
 - Periodic (annual)



AUTOMOTIVE LIFT SAFETY TIPS 2. Examine your lift daily. Never operate the lift if it malfunc or has broken or damaged parts. Repairs should be made with original equipment Do not tamper with, bypass, or otherwise override operating controls controls are designed to return to the neutral, or off, position when release 4. Never overload your lift. The lift's rated load capacity is required to be listed . Always keep the lift area clean, Prepare the service bay by making sure the lift area is free of grease and oil, tools, hoses, trash and other debris 8. Provide unobstructed clearance to and from the lift. Do not hit or run over lift arms, adapters, or axle supports when moving a vehicle into or out of the service bay. This could damage the lift or the vehicle. Check for obstructions and adequate overhead until tires clear the floor, and shake the vehicle to confirm stability. After a final visua confirmation, raise the lift to the desired working height. Always use the load-holding device (sometimes known as After the vehicle is raised to the desired working height, lower the lift onto its load-holding device(s), and visually check all vehicle contact points once more to make sure each adapter or support is securely in position before going under the vehicle. 1. Use vehicle support stands for stabilizing the load. The removal or installation of components may cause the raised vehicle to become unstable. Use support stands follong vehicles or any service that could change the vehicle's center of gravity. 2. Remove anything that could block the lowering process. Before releasing the load-holding device to lower the lift, remove tool boxes, jacks, oil drain systems, and anything else from under the lift. 13. Have all lifts inspected at least annually by a qualified automotive lift inspecto To find a qualified lift inspector in your area, contact the lift manufacturer or vis

WHEEL RIM MAINTENANCE



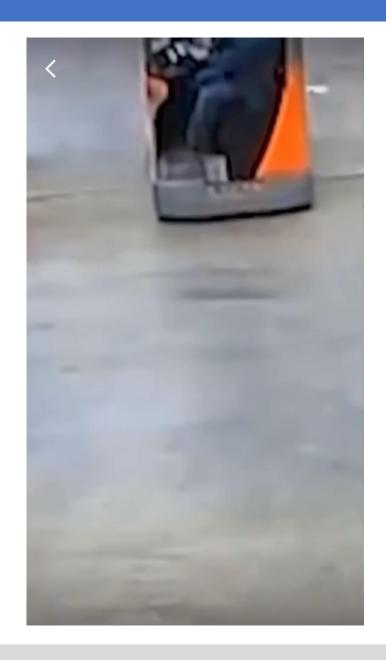
FORKLIFT OPERATIONS

BLS Estimates

- 85 fatalities per year
- 34,900 serious injuries per year
- 61,800 non-serious injuries per year

Accidents resulting in fatalities

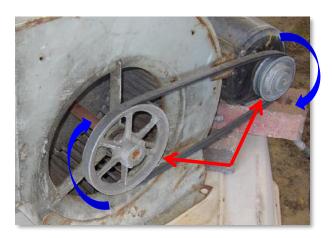
- 42% tip overs
- 25% crushed between vehicle and an object
- 11% crushed between two vehicles
- 10% struck or run-over
- 8% struck by falling material
- 4% fall from a platform on forks



MACHINERY AND MACHINE GUARDING

Machine Hazards

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



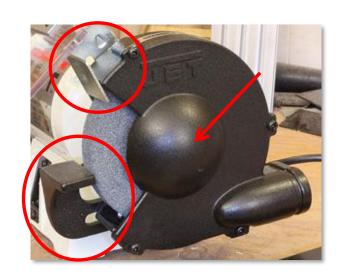
In-running nip points

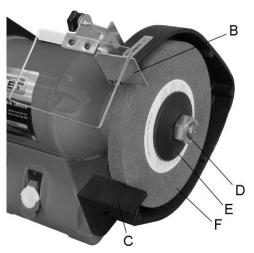


Point of operation

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





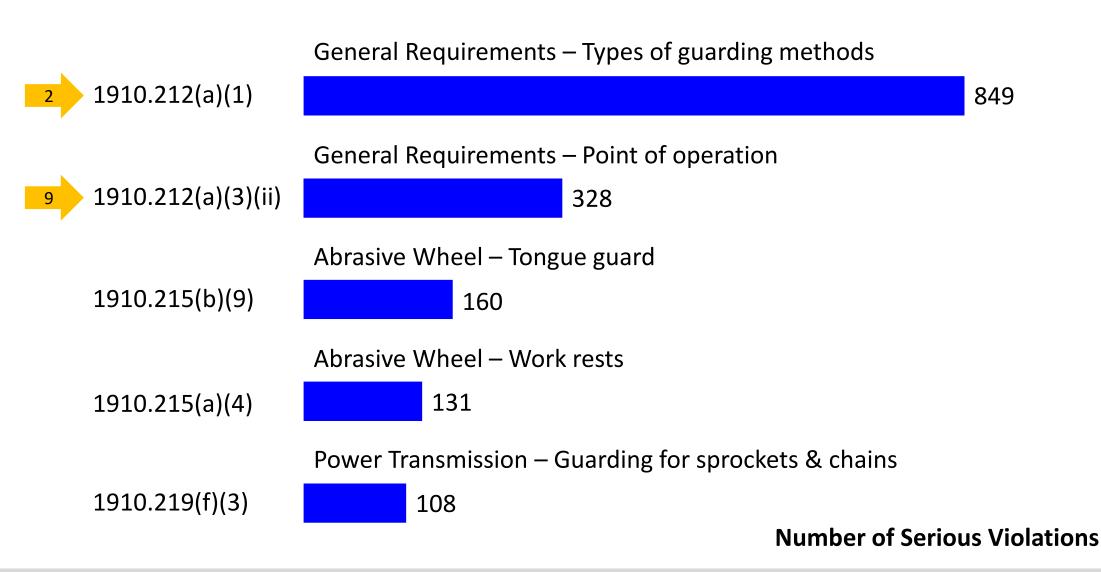
MACHINERY AND MACHINE GUARDING





MACHINERY AND MACHINE GUARDING

Machinery and Machine Guarding [1910.211 - .219]



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

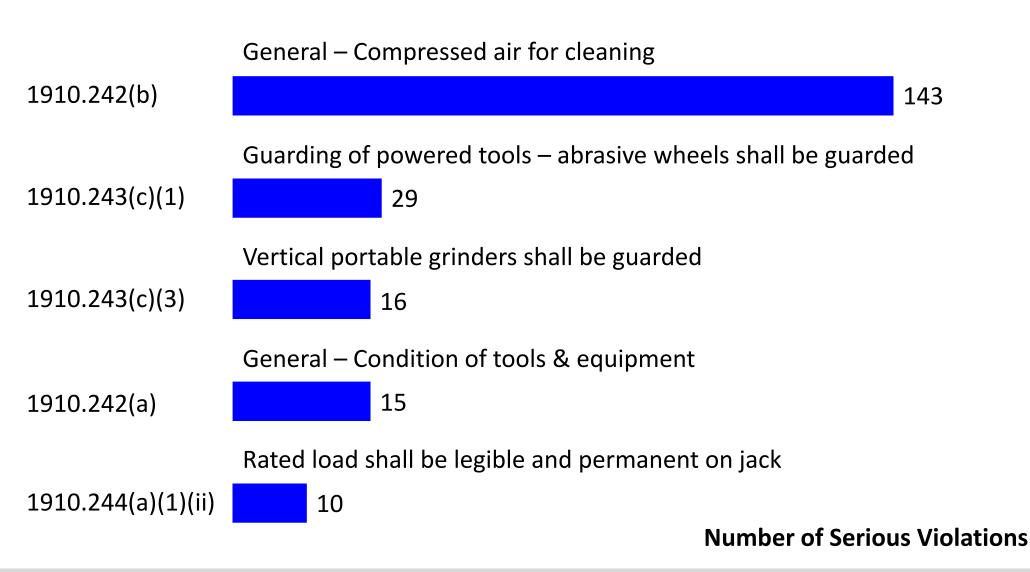


Legible capacity labels



HAND AND POWER TOOLS

Hand and Power Tools [1910.241 - .244]



PORTABLE LADDERS





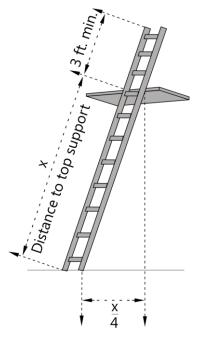
















PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment

Damaged? Usable? Stocked? Available? Proper?

















PERSONAL PROTECTIVE EQUIPMENT











QUESTIONS

Contact Information

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