

Safety Educational Webinar Series – Preventing Struck-By Injuries



Why We Are Here!?!?

- Routine work can dull alertness and create a relaxed attitude.
- In many jobs the same tasks are repeated with little thought.
- We may not recognize the importance for safety because we have been doing the same task for years.

Overview

- Without some periodic reawakening to the ever-present hazards around us, lethargy deepens and the odds of an accident occurring increases.





Struck-By Hazards

- Forcible contact with:
 - Flying
 - Falling;
 - Swinging; or
 - Rolling Object

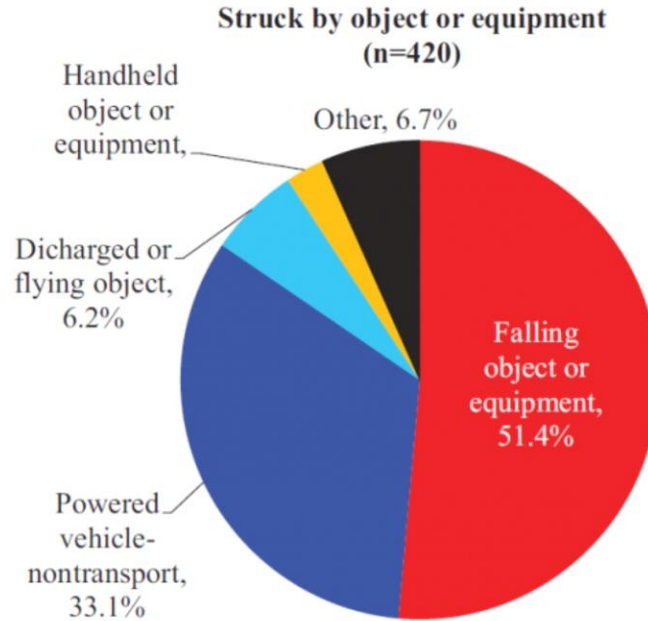
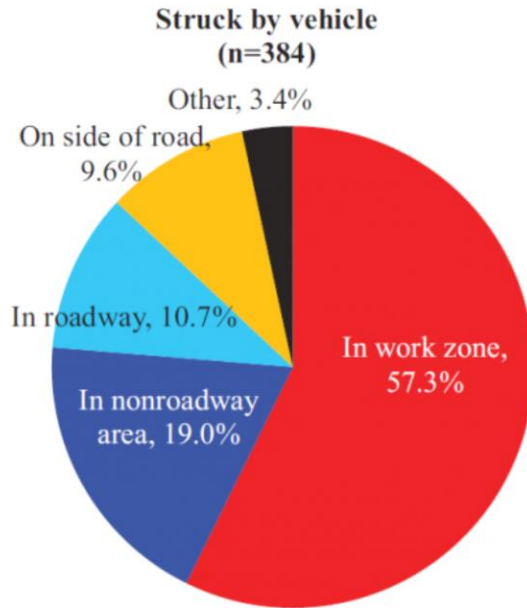
Struck- By Injuries

- Leading cause of nonfatal injuries.
- Second most common cause of fatalities.
- \$1.7 billion in workers compensation costs in 2020.

Nonfatal Struck-By Injuries

- Most common events leading to a non-fatal injury include:
 - Struck by handheld objects (36%)
 - Falling objects or equipment (29%)
 - Discharged or flying objects (14%)

Fatal Struck-By Injuries



Struck-By Flying Hazards

- Something has been thrown, hurled, or is being propelled through space.
- It can include instances when a piece of material separates from a tool, machine or other equipment, striking a worker.

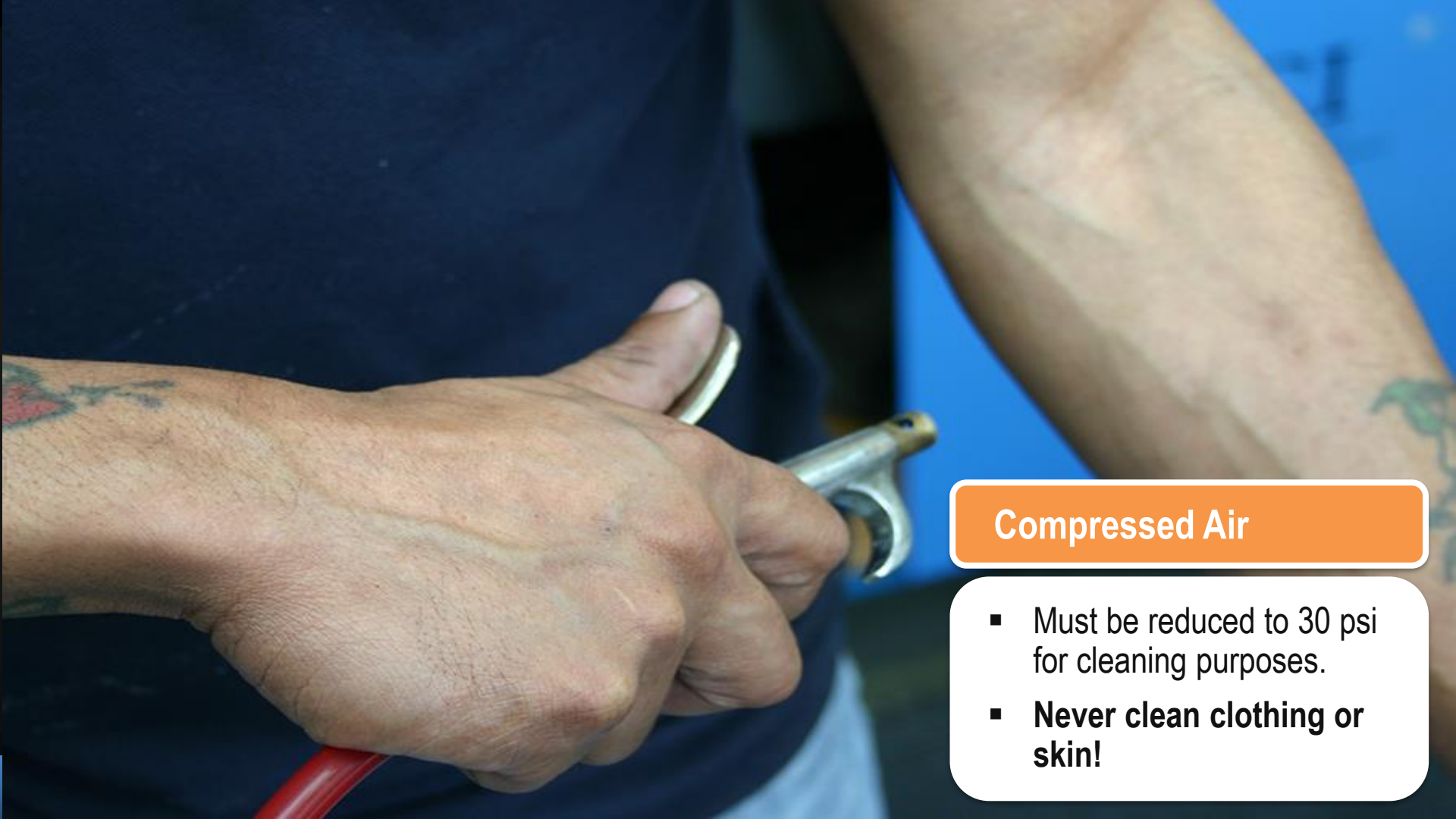


Struck-By Falling Hazards

- Common hazard across all industry sectors and had resulted in many cases of workplace injury.
- Falling objects from height can strike persons on the head and cause serious or even fatal injuries.



DANGER
FALLING OBJECTS



Compressed Air

- Must be reduced to 30 psi for cleaning purposes.
- **Never clean clothing or skin!**

Struck-By Lifted/Handled

- Happens when materials are being mechanically lifted and something causes the load to sway and fall.
- Workers should never stand inside the swing radius of heavy equipment or under a suspended load.



Struck-By Lifted/Handled

- Lifting equipment movements should always be considered prior to set up.
- Use of tag lines and push/pull poles help keep employees out of harm's way.
- Ensure travel path is clear before load is suspended.



Struck-By Mobile Equipment

- Several conditions can contribute to these injuries:
- Blind spots;
- Dismounting and leaving equipment in gear;
- Tip-over or Rollover
- Controls not **Locked Out** during maintenance.



Working Around Heavy Equipment

- Consider these measures:
 - Provide hazard awareness and safe work practices training to workers;
 - Operating manual for machinery to the operator;
 - Develop a path site plan for vehicles;
 - Set up a limited-access zone;
 - Provide equipment with rollover protective structure (ROPS);
 - Maintain equipment to be in good operating condition;
 - Utilize lockout/tagout procedures and
 - Cab shield for top-loading vehicles.



Worker Visibility

- Blind spots can be a significant operator issue.
- Spotters can help provide safety guidance and communication;
- High visibility clothing and stand clear.

Equipment Operators

- Play an important role!
- Inspect your equipment.
- Adjust all mirrors.
- Clear of all equipment.



Overhead Utility Lines



Ground Workers

- High visibility is key!
- Blind spots.
- Walking under suspended loads.
- Make eye contact!





Excavator Quick Couplers

- Allow for rapid change of buckets and other attachments.
- Safety mechanisms are not fail-proof!
- Excavator buckets can weigh 900 pounds when empty.

Quick Coupler Safety

- Recommendations to prevent injuries:
 - Keep workers away from elevated loads;
 - Training;
 - Check, Check and Re-check;
 - Connection test;
 - Use only manufacture-approved attachments; and
 - Install retrofit safety kits on older devices.



Work Zone Safety





Correct Position

- Visible
- Standing on the shoulder
- Escape route



Incorrect Position

- Never stand in front of traffic
- Transition zone



Not Paying Attention To Approaching Traffic

Not Paying Attention To Approaching
Traffic And In The Middle Of The Road



He GONE – Where's The Flagger?



Summary

- **STOP** — before starting work.
- **Talk** — where are struck-by and other safety risks present?
- **Act** — put a plan in place!



Questions, Comments or Concerns?

