

Expertise. Innovation. Commitment. Nationwide.



POWERED INDUSTRIAL TRUCKS (PIT:FORKLIFTS)

OSHA CITATION 29 CFR 1910.178 GLASC May 18, 2022

WHAT IS A POWERED INDUSTRIAL TRUCK?

- Forklift
- Powered Pallet Jack
- Towmotor
- Rough terrain forklift
- Order Picker
- Electric or internal combustion
- Not earthmoving equipment





WHY ARE PITS REGULATED BY OSHA?

- Hazardous to both the operator, pedestrians, and property damage
- Over 100 deaths per year in the United States
- Over 100, 000 injuries





TYPES OF HAZARDS

- Overhead obstructions
- Unsecured loads
- Improper use
- Lack of maintenance
- Surface conditions
- Loading docks
- Overweight loads
- Ramps





WHEN IS TRAINING NEEDED?

- New operator
- Refresher training
 - Operator involved in an accident or near miss
 - Operator driving in an unsafe manner
 - Different type of equipment to be used
 - Changes in the workspace
- Every 3 years at a minimum





EQUIPMENT INSPECTION

- What to do before the heavy lifting starts!
 - Complete the inspection form!
 - Daily or at the start of the shift
 - Engine condition and fluid levels
 - Look for leaks
 - Broken structural components
 - Check the forks for bends and cracking
 - Rubber parts tires, hoses, belts, wiring
 - Mast components
 - Operating controls
 - Alarms and lights
 - Nameplate with machine specs
 - Warning labels
- If there is damage, tag the machine out of service!





COMMON FEATURES OF A PIT

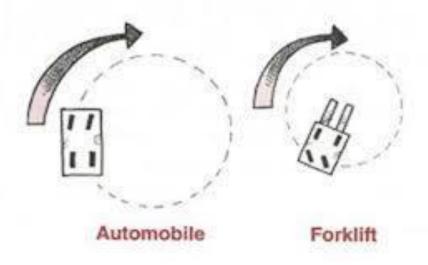
- Forks adjustable width, possibly with attachments
- Mast raise and tilt the load
- Rear wheel or articulated steering
- Controls
 - Steering
 - Control levers lift, tilt and fork position
 - Foot pedals throttle, brake, creep
- Seatbelt
- ROPS





HOW IS A FORKLIFT DIFFERENT?

- Similar to a motor vehicle, but significant differences:
- Usually rear wheel steering for maneuverability
 - Very small turning radius
 - Sometimes articulated steering
- Driven as often in reverse as forward
- One hand steering
- The center of gravity shifts du





- Forklifts, nonfatal injuries, and illnesses involving days away from Work:
- 2020 Total : All events or exposures: 1,176,340

Forklifts: 7,290

Median Days Away from Work: All events or exposures: 12 days

Forklifts: 17 days

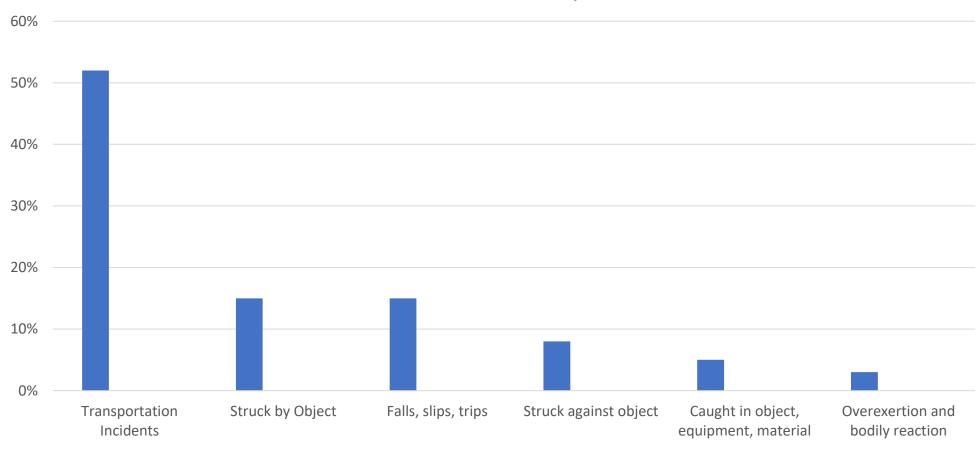
Source: Bureau of Labor Statistics, U.S.

Department of Labor



SOURCE: BUREAU OF LABOR STATISTICS, U.S. DEPARTMENT OF LABOR

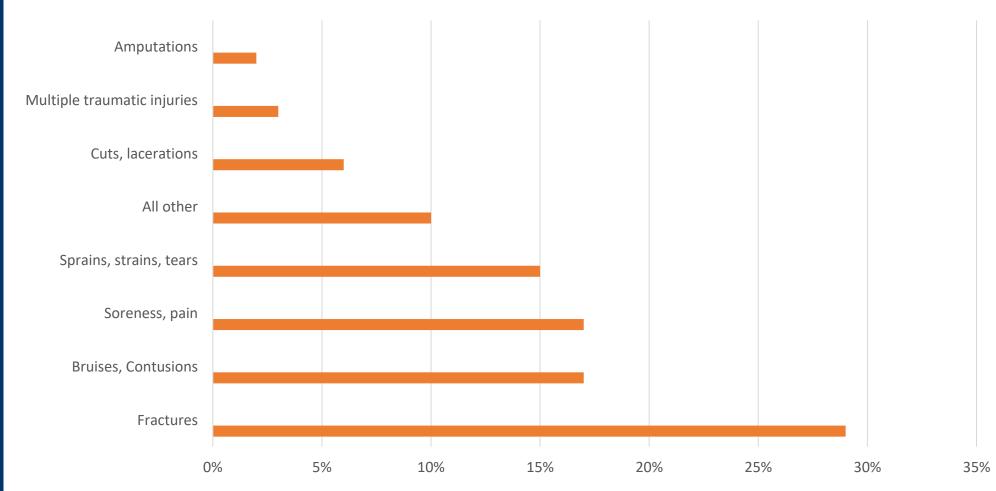
Year: 2020 Event or Exposure





SOURCE: BUREAU OF LABOR STATISTICS, U.S. DEPARTMENT OF LABOR

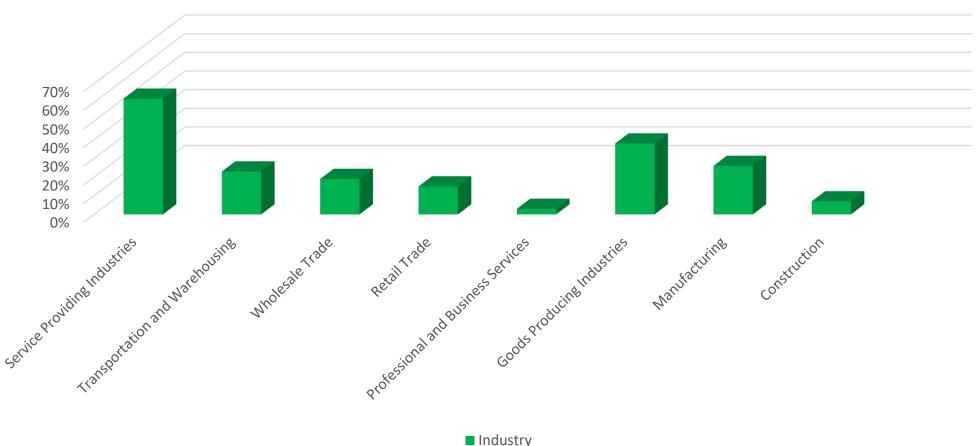






SOURCE: BUREAU OF LABOR STATISTICS, U.S. DEPARTMENT OF LABOR

Year: 2020 Industry

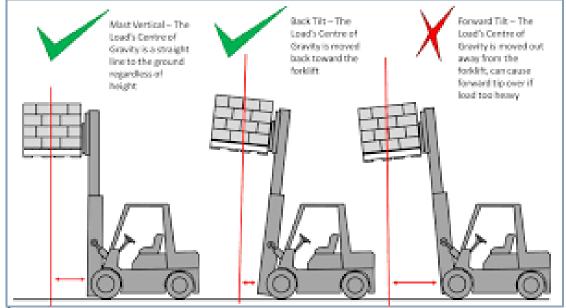




OPERATIONAL HIGHLIGHTS (LOAD

HANDLING)

- Approach the load slowly
- Stop and align the forks
- Engage the load
 - Watch the length of the forks
- Lift slowly to elevate
- Tip the forks to manage the weight
- Carry the load low and slow
- Avoid overhead obstructions
 - Especially doorways







OPERATIONAL HIGHLIGHTS

- Yield to pedestrians
- Travel at speeds that allow you to stop safely
- Drive slowly over wet and uneven surfaces
- Avoid loose debris on surfaces
- At intersections and doors, slow down and use the horn to alert others
- Travel in the direction of greatest visibility
- Smooth steering











- Electric
 - Designate an area for purpose of battery charging.
 - Charge or change batteries in the designated area
 - Get trained on recharging equipment
 - Recognize that heavy loads drain the battery more
 - quickly.
 - Be aware of chemical hazards
 - Acids
 - Alkalis
 - Use correct PPE
 - Tier II reporting
 - No smoking
 - An unseen hazardous atmosphere may exist
 - Flammable hydrogen gas is present during battery recharging.





 Some Powered Industrial Trucks have internal chargers: Walk Behinds, Order Pickers



- Propane
 - Charge or change cylinders in the designated area
 - Get trained on cylinder handling & storage
 - Be aware of physical hazards
 - Cylinder weight
 - Cold temperature due to the compressed gas
 - Follow the correct removal and replacement sequence
 - Use correct PPE
 - No smoking
 - An unseen hazardous atmosphere may exist
 - Propane gas





- Warning signs posted
- Adequate Fire Protection
- Ample and readily available water supply for flushing and neutralizing spilled electrolyte.
- An eyewash able to provide 15 minute flow.
- Spill kit: Soda ash or other neutralization materials in the immediate area.
- A dry chemical, CO2 or foam fire extinguisher.





OSHA'S TOP 5 PIT VIOLATIONS FOR 2021

1. Unsafe Operations:

 Driving with an elevated load, driving too fast, driving too close to platform edges and not following loading dock safety procedures.

2. Failure to provide refresher training:

 Every forklift operator must receive refresher training every three years sooner if they are involved in an accident, near-miss, or when reported for reckless behavior.

3. Missing/inadequate operator certification:

 All forklift operators must have an OSHA-approved forklift certification for the class of forklift they utilize.



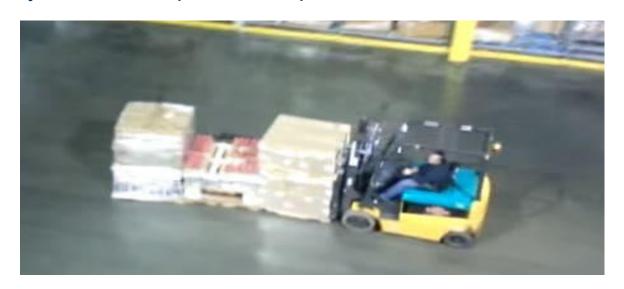
OSHA TOP 5 PIT VIOLATIONS FOR 2021

4. Failure to remove unsafe trucks from service

 Whenever a forklift is found to be defective, in need of repair, or in any way unsafe, the truck must be taken out of service until it is restored to a safe operating condition.

5. No pre-operation inspection

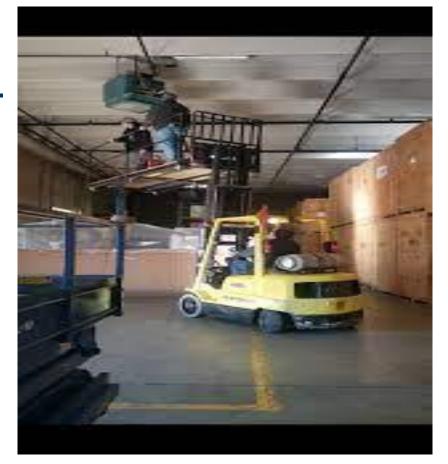
 Forklifts must be inspected prior to use to ensure the safety of operators and detect minor issue before they become expensive repairs.





OSHA FINES FOR PIT VIOLATIONS IN 2021

- Minimum fine was \$9,639
- Maximum penalty was \$13,494.
- Failure to Abate fines were \$13,494.
- Repeated violations fines were \$13,937.





NATIONAL FORKLIFT SAFETY DAY

- June 14th is National Forklift Safety Day
- Register for event:
- https://www.indtrk.org/national-forklift-safety-day
- Created by the Industrial Truck Association (ITA)
- Talking point for Forklift Safety at facilities





PIT RESOURCES

OSHA Regulations: https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.178

 Training and Reference Materials Library: https://www.osha.gov/training/library/materials

OSHA eTool: https://www.osha.gov/etools/powered-industrial-trucks/types-fundamentals/power-sources/electrical



THE BOTTOM LINE

- Operate the equipment safely
- Communicate problems as they arise
- Look for improvement
- Know your responsibilities to yourself and your co-workers
- Be sure you, your co-workers are safe and property is not damaged—we want you ALL to go home in one piece!



