

**OFFICE OF STATE HUMAN RESOURCES**

**NUMBER: PIT-1 TOTAL PAGES: 6**

**SUBJECT: Powered Industrial Trucks (Forklift) Program**

**Effective Date: Revision Date: Revision #:**

**RELATED LEGISLATION:**

### This program outlines safety procedures for employees who operate powered industrial trucks (PITs) as part of their job duties. These requirements have also been established under OSHA Powered Industrial Trucks, 29 CFR 1910.178 with additional information found under the National Fire Protection Association (NFPA) 505, Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance and Operations, 2011 Edition, and the American National Standards Institute (ANSI) B56.1, 1975, Sections 5, 6 and 7.

**I. Purpose**

It is the responsibility of [Agency/University] to protect employees, patients, clients, residents, and any other individuals from hazards associated with forklift and powered burden carrier operations, to train and evaluate the performance of operators, and to comply with all regulatory requirements for the safe operation such equipment.

**II. Definitions**

**Fork Truck -** Also called forklift truck, a fork truck is a small vehicle with two power-operated prongs at the front that can be slid under heavy loads and then raised for moving and stacking. Fork trucks can be powered by electricity, compressed natural gas, liquid petroleum gas, diesel fuel, or gasoline.

**Powered Industrial Truck -** Any mobile power-propelled truck used to carry, push, pull, lift, stack or tier materials. Powered industrial trucks can be ridden or controlled by a walking operator.

**III. Roles and Responsibilities**

**Safety Director**

The Safety Director ensures that a written program is in place for the safe operation of powered industrial trucks. The program is reviewed periodically to ensure compliance with this program. The Safety Director is responsible for coordinating training for applicable employees on PIT safety and ensuring the training documentation is maintained.

**Manager/Supervisor**

The manager/supervisor ensures that only authorized and trained employees operate PITs, and that operators comply with the procedures in this program. The manager/supervisor ensures that designated employees successfully complete the qualification procedures outlined in this program prior to operating any equipment.

**Employees**

Employees who operate PITs are responsible for complying with this program. Staff are also responsible for reporting equipment defects and discontinuing PIT operations when unsafe conditions exist.

**IV. Implementation**

**PIT Operator Qualifications**

Operators must demonstrate their driving competence by passing a written test and completing a practical driving test for forklifts. Operators must demonstrate acceptable competence and knowledge in performing each task.

* An evaluation of each Staff operator’s performance shall be conducted by a qualified staff member at least every 3 years. (Attachment A)
* Refresher training shall be required if:
	+ The operator has been observed to operate the vehicle in an unsafe manner.
	+ The operator has been involved in an accident or near miss incident.
	+ The operator has received an evaluation that reveals that the operator is not operating the truck safely.
	+ The operator is assigned to operate a different vehicle or a condition in the workplace changes in a manner that could affect safe operation.

**General Safety Procedures**

* Operators conduct a **daily** inspection of industrial trucks prior to operation. The vehicle shall not be placed in service if the inspection shows any condition that adversely affects the safety of the vehicle. Inspection checklists are retained for 30 days by the department the vehicle is assigned to. (Attachments B and C)
* Vehicles are operated at a safe speed. Speeds are adjusted to compensate for surface conditions, visibility, load weight, vehicle or pedestrian traffic or any other circumstances affecting safe operation.
* Only trained individuals are allowed to operate industrial trucks.
* Accidents are reported immediately to the Supervisor and Safety Department.
* Maintenance or repair activities are to be performed by a qualified service technician. Maintenance shall be conducted according to the manufactures recommendations. Each vehicle is placed in the preventive maintenance checks and services program.
* Riders are prohibited on forklifts and in cargo areas of other industrial trucks.
* Persons may not be lifted with forklifts unless a lift cage is used.
* Persons are not be allowed to pass under raised forks.
* Horseplay or unsafe driving is not tolerated.
* Operators do not place any part of their body between the mast and fork back support at any time.
* Only attachments approved and listed by the manufacturer may be used.

**Standard Safety Equipment/Precautions**

* Seatbelts are installed and utilized on each forklift.
* Forklifts must have a functional horn, strobe light, and backup alarm.
* Forklifts have a nameplate listing lift category, load rating, and load center prominently affixed.
* Forklifts have a driver cage installed to protect the operator from falling materials.

**Refueling/Battery Charging**

* Smoking, open flames or spark producing activities are prohibited in designated refueling or battery charging areas.
* Forklifts are parked with the engine off, forks lowered and parking brake engaged prior to refueling or battery charging.
* Electric cargo/burden carriers must have the forward-off-reverse switch in the “OFF” position, the power or key switch off and the parking brake set whenever the operator leaves the vehicle.
* Propane tank refilling and replacement is only performed outside.
* Gas tank regulators are closed with the engine running to burn fuel in the lines prior to disconnecting and replacing tanks.
* Battery charging or replacement is not performed in locations that obstruct access to exits.

**Loading and Unloading**

* Only handle stable and safely arranged loads; secure unstable loads.
* Never lift or carry loads that exceed the rated capacity listed on the nameplate of the vehicle.
* Before entering a trailer with a forklift, ensure that the trailer brakes are locked, the rear wheels are chocked and the deck plate is secure.
* Check the rated capacity of the trailer before entering to ensure that it can support the combined weight of the forklift and load.
* Never carry anything on the overhead guard.
* Never tilt the load forward unless depositing it onto a rack or stack.
* Unsecured items shall not be transported in the cab of the vehicle.

**Powered Industrial Trucks**

Attachment A

**Operator Evaluation**

***This evaluation must be completed for any employee who will be operating a powered industrial truck prior to operation. Evaluation is completed by a designated competent person. This evaluation is maintained by the Safety Office.***

|  |  |
| --- | --- |
| **Division:**  | **Facility:**  |
| **Location:** | **Date:**  |
| **Operator:**  | **Equipment:**  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Observable Behaviors** | **Yes** | **No** | **Comments** |
| Completes pre-shift inspection |  |  |  |
| Wears seatbelt |  |  |  |
| Uses strobe light |  |  |  |
| Operates at safe speed for Conditions |  |  |  |
| Uses smooth and safe turning technique |  |  |  |
| Eyes on work path (Looks before backing up) |  |  |  |
| Sounds Horn at Corners, Doors and Blind Spots |  |  |  |
| Travels in reverse when load obstructs vision |  |  |  |
| Observes safe battery charging, refueling procedures |  |  |  |
| Keeps load uphill on ramps/hills |  |  |  |
| Observes load handling/stacking rules |  |  |  |
| Parks truck properly - brake, power, neutral |  |  |  |

|  |
| --- |
| **Results** |
| ☐ Operator Evaluation Satisfactory | ☐ Operator Evaluation Satisfactory After review of “At Risk” Items |  ☐ Operator Referred for Refresher Training and Follow-up Evaluation |

|  |  |
| --- | --- |
| **Evaluator Name:**  | **Title:**  |
| **Signature:** | **Date:**  |

**Powered Industrial Trucks** Attachment B

**CNG/Gas/Diesel Fork Trucks**

**Operator’s Daily Checklist**

***This checklist must be completed prior to each shift during which a CNG/gas/diesel fork truck will be operated. This checklist is maintained on file by the Safety Office.***

|  |  |
| --- | --- |
| **Division:**  | **Facility:**  |
| **Location:** | **Date:**  |
| **Operator:**  | **Equipment:**  |

|  |  |  |
| --- | --- | --- |
| **Engine Off Checks** | **OK** | **Maintenance** |
| Leaks – fuel, hydraulic oil, engine oil or radiator coolant |  |  |
| Tires – condition and pressure |  |  |
| Forks, top clip retaining pin and heel –check condition |  |  |
| Load Backrest – securely attached |  |  |
| Hydraulic hoses, mast chains, cables and stops – Check Visually |  |  |
| Overhead guard – attached |  |  |
| Finger guards – attached |  |  |
| Leaks – fuel, hydraulic oil, engine oil or radiator coolant |  |  |
| Propane tank (LP gas truck) – rust, corrosion, damage |  |  |
| Safety warnings – attached (refer to parts manual for location) |  |  |
| Battery – Check water/electrolyte level and charge |  |  |
| All engine belts – Check visually |  |  |
| Hydraulic fluid level – Check level |  |  |
| Engine oil level – Dipstick |  |  |
| Transmission fluid level – Dipstick |  |  |
| Propane tank (LP gas truck) – Rust, corrosion, damage |  |  |
| Engine air cleaner – Squeeze rubber dirt trap or check restriction alarm (if equipped) |  |  |
| Fuel Sedimentor (Diesel) |  |  |
| Radiator Coolant – Check Level |  |  |
| Operator's Manual – In Container |  |  |
| Nameplate attached and information matches model, serial number and attachments |  |  |
| Seat Belt – Functioning Smoothly |  |  |
| Hood Latch – Adjusted and securely fastened |  |  |
| Brake Fluid – Check level |  |  |
| Engine On Checks – Unusual noises must be investigated immediately |  |  |
| Accelerator or direction control pedal – functioning smoothly |  |  |
| Service & parking brake – functioning smoothly |  |  |
| Steering Operation – functioning smoothly |  |  |
| Drive Control – Forward/Reverse – functioning smoothly |  |  |
| Tilt Control – Forward and Back – functioning smoothly |  |  |
| Hoist and Lowering Control – functioning smoothly |  |  |
| Attachment Control – Operation |  |  |
| Horn and Lights – functioning  |  |  |
| Gauges: ammeter, engine oil pressure, hour meter, fuel, temp., instrument monitors  |  |  |

|  |  |
| --- | --- |
| **Completed by:**  | **Signature:**  |

**Powered Industrial Trucks**

Attachment C

**Electric Fork Trucks**

**Operator’s Daily Checklist**

***This checklist must be completed prior to each shift during which an electric fork truck will be operated. This checklist is maintained on file by the Safety Office.***

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| --- | --- |
| **Division:**  | **Facility:**  |
| **Location:** | **Date:**  |
| **Operator:**  | **Equipment:**  |

|  |  |  |
| --- | --- | --- |
| **Engine Off Checks** | **OK** | **Maintenance** |
| Leaks – Hydraulic Oil, Battery |  |  |
| Tires – Condition and Pressure |  |  |
| Forks, Top Clip Retaining Pin and Heel -- Condition |  |  |
| Load Backrest Extension – Attached |  |  |
| Hydraulic Hoses, Mast Chains, Cables & Stops – Check Visually |  |  |
| Finger Guards – Attached |  |  |
| Overhead Guard – Attached |  |  |
| Safety Warnings – Attached (Refer to Parts Manual for Location) |  |  |
| Battery – Water/Electrolyte Level and Charge |  |  |
| Hydraulic Fluid Level – Dipstick |  |  |
| Transmission Fluid Level – Dipstick |  |  |
| Operator's Manual in Container |  |  |
| Capacity Plate Attached – Information Matches Model, Serial Number and Attachments |  |  |
| Battery Restraint System – Adjust and Fasten |  |  |
| Operator ProtectionSit-down Truck - Seat Belt – Functioning SmoothlyMan-up Truck – Fall protection/Restraining means - Functioning |  |  |
| Brake Fluid – Check level |  |  |
| **Motor On Checks (Unusual Noises Must Be Investigated Immediately)** |  |  |
| Accelerator Linkage – Functioning Smoothly |  |  |
| Parking Brake – Functioning Smoothly |  |  |
| Service Brake – Functioning Smoothly |  |  |
| Steering Operation – Functioning Smoothly |  |  |
| Drive Control – Forward/Reverse – Functioning Smoothly |  |  |
| Tilt Control – Forward and Back – Functioning Smoothly |  |  |
| Hoist and Lowering Control – Functioning Smoothly |  |  |
| Attachment Control – Operation |  |  |
| Horn – Functioning |  |  |
| Lights & Alarms (where present) – Functioning |  |  |
| Hour Meter – Functioning |  |  |
| Battery Discharge Indicator – Functioning |  |  |
| Instrument Monitors – Functioning |  |  |

|  |  |
| --- | --- |
| **Completed by:**  | **Signature:**  |