SPC Powered Industrial Trucks (PIT) Operator Training	
GOALS Explain the importance of forklift safety procedures. Demonstrate safe forklift operation after presentation	
OBJECTIVE To demonstrate an understanding of forklift safety procedures by successfully completing written and handson forklift safety tests.	

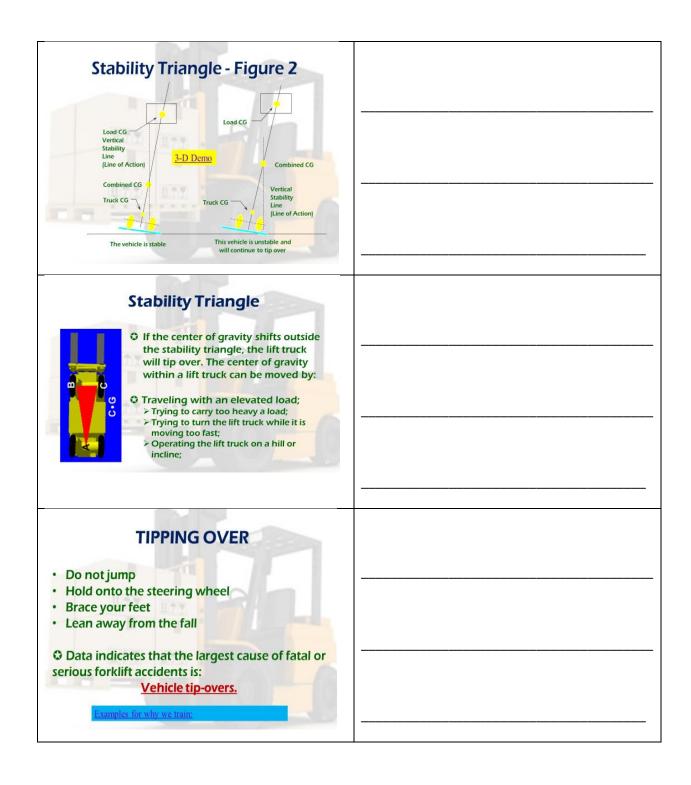
Powered Industrial Truck - Definition > A mobile, power-propelled truck used to carry, push, pull, lift, stack or tier materials. [American Society of Mechanical Engineers (ASME) definition] > Excluded are vehicles used for earth moving and overthe-road hauling. > Commonly known as forklifts, pallet trucks, rider trucks, forktrucks, or lifttrucks. > Can be powered through electric or combustion engines. Who can operate forklifts at SPC? ONLY TRAINED AND AUTHORIZED **EMPLOYEES** TRAINING IS GOOD **FOR 3 YEARS DEFINTIONS** (cont'd) **Authorized Employee:** One who has completed St. Petersburg College's required training: O Has been fully trained and evaluated in OSHA's required training topics. O Knows the general design and function of the vehicle. O Follows safety inspection and safe driving rules. (Issued a certification card upon completion of training/

Reasons for the Standard working around you Forklift Fatalities, 2011 - 2017 **Final Rule** > OSHA published the final rule for Powered Industrial Truck Operator Training on December 1, 1998. > The effective date is March 1, 1999. Start-up dates are included in paragraph (I)(7). > It applies to all industries except agricultural operations. > OSHA estimates that the new rule will prevent 11 deaths and 9,422 injuries per year.

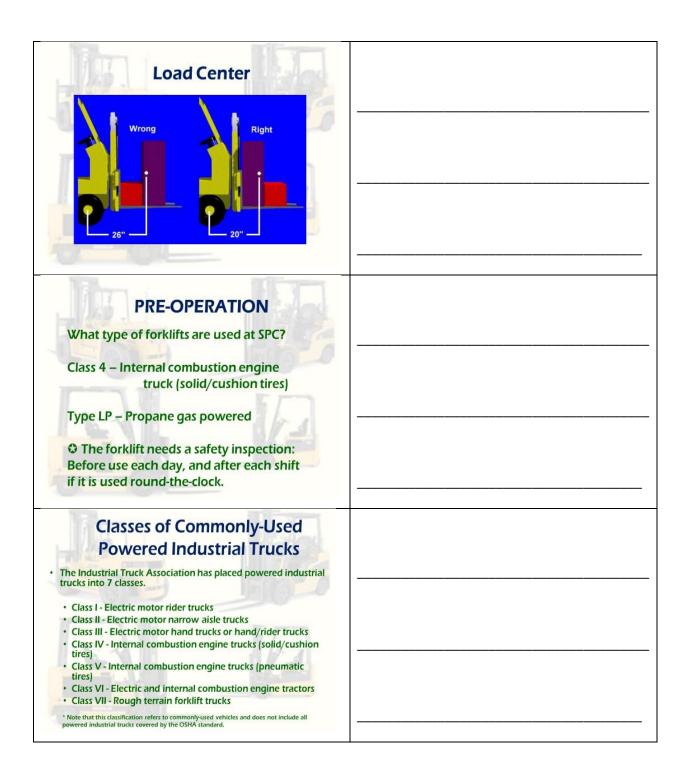
Effective Powered Industrial Truck Operator Training Program	
> Four major areas of concern must be addressed:	
 The general hazards that apply to the operation of all or most powered industrial trucks; 	
✓ The hazards associated with the operation of particular types of trucks;	
√ The hazards of workplaces generally; and,	
✓ The hazards of the particular workplace where the vehicle operates.	
Unique Characteristics of Powered	
Industrial Trucks	
√ Each type of powered industrial truck has	
its own unique characteristics and some inherent hazards.	
✓ To be effective, training must address the	
unique characteristics of the type of	
vehicle the employee is being trained to operate.	
Operator Training	
Safe operations:	
√ The employer shall ensure that each powered industrial truck operator is competent to operate a powered industrial truck safely, as demonstrated by successful completion of the training and evaluation specified in the OSHA standard.	
 Prior to permitting an employee to operate a powered industrial truck (except for training purposes), the employer shall ensure that each operator has successfully completed the required training (or previously received appropriate training). 	

Training Program	
Implementation	
• Training shall consist of a combination of:	
✓ Formal instruction (e.g., lecture, discussion, interactive computer learning, written material),	
 Practical training (demonstrations and exercises performed by the trainee), and 	
✓ Evaluation of the operator's performance in the workplace	
Refresher Training and	
• Refresher training, including an evaluation of the effectiveness of that training, shall be conducted to ensure that the operator has the knowledge and skills needed to operate the powered industrial truck safely.	
 Refresher training required when: Unsafe operation Accident or near-miss Evaluation indicates need Different type of equipment introduced Workplace condition changes 	
Refresher Training and Evaluation (continued)	
 An evaluation of each powered industrial truck operator's performance must be conducted: 	
✓After initial training,	
✓ After refresher training, and ✓ At least once every three years	

Certification	
 The employer shall certify that each operator has been trained and evaluated as required by the standard. Certification shall include: Name of operator Date of training Date of evaluation Identity of person(s) performing the training or evaluation 	
Stability of Powered Industrial Trucks	
AUTOMOBILE FORKLIFT Collindustrial trucks have rear wheel steering which: makes the back end of the truck swing wide during a turn.	
Stability Triangle - Figure 1 Vehicle Center of Gravity (Unloaded)	
Center of Gravity of Vehicle and Maximum Load	
Center of Gravity must remain in side the Triangle.	



Components of a Forklift Truck O Tilt Cylinder Carriage Seat Belt *One of the most common types of powered industrial trucks **Load Capacity** · The front wheels of a lift truck serve as the Fulcrum Point between the weight of the truck and the weight of the load being carried. If the weight of the load is equal to the weight of the truck, with equal distances between the centers of gravity, it is possible to "seesaw" a lift truck on its front wheels **Load Capacity** For example, a truck might have a capacity of 4000 pounds at a 24 inch load center (LC). This means that the truck can lift 4000 pounds, if the center of gravity of the load is 24 inches from the face of the forks.



Class I - Electric Motor Rider Trucks Sit Down Rider - Electric Class I - Electric Motor Rider **Trucks** Counterbalanced Rider Type, Stand-Up Class II - Electric Motor Narrow Aisle Trucks Reach Type Outrigger Order Picker Turret Truck

Class III - Electric Motor Hand or Hand/Rider Trucks	
Low Lift Platform Low Lift Platform Walkie Pallet Counterbalanced	
1941 - DRE	
Class IV - Internal Combustion Engine Trucks - Cushion (Solid) Tires	
Fork on the th	
Class V - Internal Combustion Engine Trucks - Pneumatic Tires	
Fork, counterbalanced (pneumatic tires)	

Class VII - Rough Terrain Forklift Trucks > Straight-mast forklift > Extended-reach forklift	
All rough terrain forklift trucks	
Pre-Operational Inspection	
East Tennessee State University Fortifit Operator's Daily Cheshiat (Sompare at he four of Each Day he Forties to Use) East Institute Nr. meter State Nr. Meter Ead Constant's Signature Check Any Defective Rem With an X and give details below Accelerator Usigns Battery Connection Variancy Lights Battery Connection Variancy Lights Paring State Person State Person College Passation Final Lowel Engine Coll Legit Passation Final Lowel Engine Coll Legit Passation Final Lowel	
Steering Gauges Tree Son Mon House Son House S	
OPERATION Mount/dismount maintaining 3-points of contact	
> Wear the seat belt.	
> Familiarize yourself with the controls.	
> ALWAYS start the forklift from the operator's position.	
➤ Slow down at cross aisles, when turning and on wet/oily surfaces. ②	

OPERATION	
 NEVER give anyone a ride. This includes lifting anyone off the ground using the forks, Only manufacturer approved safety platforms can be used to lift people. 	
✓ Pedestrians always have right-of-way. ② Ensure no one is standing or otherwise under the load	
✓ Intersections	
✓ Stopping distance	
Changes in ground surface	
 ✓ Ramps and inclines ✓ Limited line of sight 	
- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	
DOCKS	
> Inspect the dock plate	
 ➤ Check the trailer floor condition ✓ No SPC employee will operate a forklift of any kind on a delivery 	
truck.	
> Trailer wheels are chocked or dock lock	
> Nose of the trailer is supported by the tractor	
or a fixed jack	
Blind Spot	
Line of Sight	
RESTRICTED VISIBILITY	
Accident video due to restricted visibility	

	Picking Up A Load	
	Make sure the load does not exceed the capacity of the forklift.	
	z. Center the forks to evenly distribute the weight of the load.	
	3. O Make sure the load is stable balanced and secure.	
5	4. Check for overhead obstructions.	
	5. Drop the forks to the floor.	
4		
	Picking Up A Load	
F	6. O Drive into the load as far as possible.	
	7. O Tilt the load back slightly and then lift it. (Quick Example)	
1	8. Back out slowly to clear racks or other obstacles.	
	9. Lower the load to the safe traveling height before moving (usually two to four inches above the floor).	
	 The forklift should be completely stopped before the load is raised or lowered. 	
1.	Traveling With A Load Pedestrians always have the right-of-way.	
2.	• Keep the load tilted back slightly.	
3.	Keep the forks low, two to four inches above the floor if possible.	
4.	A forklift operator's visibility is always restricted, even without a load. Before moving always check behind and around the unit for pedestrians and other traffic.	
5.	O If the load is large and blocks the operator's view, travel in reverse.	
6.	Drive at a safe speed, slowing down when going around corners. Of If driving behind a slower forklift, stay 3 truck lengths behind it.	

Traveling With A Load	
. Sound the horn when approaching aisles and corners.	
3. Never allow any riders.	
On ramps and inclines always drive a loaded forklift the load	
"uphill"; driving up the ramp or incline and backing down it.	
 On ramps and inclines always drive an unloaded forklift with the forks "downhill"; backing up the ramp or incline and driving down it. 	
11. Avoid sudden braking.	
 Lift or lower the load only when completely stopped, never when traveling. 	
Placing A Load	
Stop the forklift in front of the desired location.	
2. Slowly raise the load to the required height.	
3. Move forward slowly with the load raised.	
Never walk or stand under the raised load.	
5. Position the load for placement, © tilt the load forward to level it.	
6. Place the load square and straight.	
6. Place the load square and straight.	
Placing A Load	
7. Once the load has settled, back up slowly.	
8. Make sure the forks clear the pallet before	
turning or changing the fork height.	
7. Before backing, check behind and on both	
sides for pedestrians or other traffic.	

PARKING	
Lower the forks	
Set gear to neutral	
Set the parking brake	
Turn off the key	
The forklift is considered unattended when you are beyond 25 feet or can not see the forklift.	
When parking a forklift, do not block fire aisles, stairways and/or fire equipment	
Hazards Associated With Liquefied	
Petroleum Gas	
Flammable gas - Fire and Explosion.	
Cryogenic liquid – Very cold – possible freezer burns/frostbite to skin.	
If forklift has dangerously overheated parts or sparking from the exhaust, it should be removed from service immediately.	
PROPANE	
Operators (DON PPE FIRST) must always wear the proper personal protective (leather gloves & safety glasses) equipment when changing tanks.	
Never change tanks near an open flame or heat source (No smoking allowed).	
Close the fuel line valve, but keep the engine running. This will prevent any propane from being left in the fuel line.	
Shut off the ignition after the engine stops.	
Handle tanks carefully. Propane can cause "freeze" burn if it comes in contact with the operator's skin.	
Check the condition of all valves and seals before	
connecting the new tank.	

	1
PROPANE	
 If there is a leak, the operator should be able to smell it, hear it hissing, or see frost on the fittings. 	
8. Propane is heavier than air and it will settle to the floor if there is a leak.	
9. O If a leak is detected, remove the forklift from service until the leak is repaired.	
10. Propane tanks should be stored in an open area to prevent leaking propane from accumulating.	
PROPANE	
This tank is on one of SPC's Forklifts.	
Can you spot the issue with it's setup?	
PROPANE	
This tank is on one of SPC's Forklifts.	
Can you spot the issue with it's setup?	

RE-TRAINING DRIVING UNSAFELY ACCIDENT OR NEAR-MISS DOES NOT PASS EVALUATION CONDITIONS CHANGE IN WORKPLACE Policy of the previous forklift training, it is important that your employer: Makes sure that you get site-specific training at your current facility.	
CERTIFICATION FEMPLOYER MUST CERTIFY THAT EACH EQUIPMENT OPERATOR HAS BEEN PROPERLY TRAINED AND EVALUATED	
Open Discussion	