

EHS Learning Solutions

7-part Powered Industrial Truck content positioning

Empowering a safe and healthy workplace environment

The more complex the machine, the more careful and trained its operators must be. UL offers easy access to expert online training for your employees, so they can remain up-to-date and confident in their abilities. Our expansive catalog of hundreds of employee health and safety courses offers you an on-demand resource instructed by UL's leading experts.

Powered industrial truck training

A powered industrial truck includes equipment such as standard counterbalance forklifts, motorized pallet trucks, tuggers and tow tractors, order picker lifts and other powered equipment used to lift and move equipment or materials. Occupational Safety and Health Administration (OSHA) standards 29 CFR 1910.178 and 29 CFR 1926.602 define industrial truck safety requirements for general industry and construction worksites.

UL offers a variety of industrial truck courses to support training needs.

- Our training supports formal instruction traditionally performed in classroom settings.
- Additional, SPECIFIC information about the equipment to be operated as well as unique aspects of the operating environment must be provided in addition to UL off-the-shelf training.
 - A. Capabilities, limitations and specific instructions for the equipment to be operated, e.g., operating controls, capacities, fork attachments, type and class of lift
 - B. Details about operating areas and the tasks to be performed, e.g., flammable or combustible environments, overhead hazards, floor or elevator capacity concerns

Standards require training for employees who operate the equipment.

- Training is needed initially before operating equipment
- Updated training is needed if and when equipment and operating environments change or when there is reason to believe that operators lack the knowledge or skills necessary for safe operation, e.g., after incidents, accidents or unsafe operation
- Workplace skills observation is a mandatory component of initial training and must be repeated on a three-year basis to ensure operator competence. During the practical portion of the training, operators practice representative tasks, with representative equipment, in a representative work environment.
- Because PIT incidents are often severe, many companies voluntarily provide refresher information annually as a matter of good practice.

UL recommends companies document the identity of any individuals conducting equipment and facility-specific aspects of training on-the-field evaluation. This information can be uploaded to the operator's training record to prove completion of training requirements.

The 7-Part PIT suite is recommended for initial training. This can be complemented by equipment-specific training modules. Modules can also be assigned individually and independently for refresher and remedial purposes. Courses are suitable for U.S. and international audiences.



Powered Industrial Trucks, Parts 1 to 7 (PS5-30119)

1. Classes and Types (PS5-103133)	<ul style="list-style-type: none">• Recall definitions of a powered industrial trucks• Classify types of powered industrial trucks• Recall how power sources affect which powered industrial truck to choose for different jobs• Use data plates and markings to find information about a truck, including its weight and lifting capacity
2. Pre-Operation Inspection (PS5-103134)	<ul style="list-style-type: none">• Know how to ensure that an operator is ready to operate a powered industrial truck• Know how to evaluate five key pre-operation inspection points
3. Operational Inspection and Maintenance (PS5-103135)	<ul style="list-style-type: none">• Recall what is included in an operational inspection• Know what happens during truck maintenance and inspection follow-up
4. Fueling and Charging (PS5-103136)	<ul style="list-style-type: none">• Recall general safety procedures to take when refueling or changing and charging batteries
5. Preventing Incidents (PS5-103137)	<ul style="list-style-type: none">• Know about the factors that influence the stability and safety of powered industrial trucks• Know what operators should do if their powered industrial trucks tips over
6. Picking Up and Placing Loads (PS5-103138)	<ul style="list-style-type: none">• Recall how to pick up, handle and place loads
7. Loading Dock Operations (PS5-103139)	<ul style="list-style-type: none">• Recall safe practices for operating powered industrial trucks at loading dock areas

Equipment-specific modules

Forklift Awareness (PS5-102599)	<ul style="list-style-type: none">• State the most common causes of forklift injuries and fatalities• Identify key elements for safe operation of a forklift, including stability and load handling• Recognize the most important considerations for stopping a lift and/or ending a shift
Pallet Truck Safety (PS5-102857)	<ul style="list-style-type: none">• Recognize the types of pallet trucks and their special considerations• Know how to prepare to safely operate pallet trucks• Recall general safe operation practices for pallet trucks• Know how to safely use pallet trucks at docks and on ramps or slopes
Order Picker Safety (PS5-102858)	<ul style="list-style-type: none">• Recognize the features, common names and uses of order pickers• Know how to ensure that order picker operators, areas and equipment are ready for safe use• Know how to prevent accidents such as falling, crushing and tipping• Recall how to safely park order pickers

Equipment-specific modules (cont'd)

Tugger and Tow Tractor Safety Part 1 – Readiness (PS5-102859) Part 2 – Operation (PS5-102965)	<ul style="list-style-type: none">• Distinguish tuggers and tow tractors from other types of powered industrial trucks• Know how to prepare tugger and tow tractor operators, environments and equipment for safe operation• Recall safe practices for operating tuggers and tow tractors while riding and walking• Know how to safely stop, park and store tuggers and tow tractors
Rough Terrain Forklift Safety Part 1 – Readiness (PS5-102860) Part 2 – Operation (PS5-102920)	<ul style="list-style-type: none">• Recognize rough terrain forklifts and their parts• Ensure that an operator is ready to operate a rough terrain forklift• Evaluate and prepare an area for rough terrain forklift operation• Know what is included in visual and operational inspections of rough terrain forklifts• Use a load capacity chart• Know how and when to start rough terrain forklifts• Recall safe practices to avoid collisions when operating rough terrain forklifts• Recall safe practices to prevent tip-overs when operating rough terrain forklifts• Recall safe practices for performing lifts with rough terrain forklifts• Know how to safely park rough terrain forklifts
Low-Speed and Utility Vehicle Safety (PS5-102855)	<ul style="list-style-type: none">• Recognize hazards associated with low-speed and utility vehicles• Recall ways to stay safe when operating or riding in low-speed and utility vehicles

Why online training is important

Online training helps meet classroom training requirements. Full compliance with training standards occurs after review of equipment and facility specifics and successful practical demonstration of skills.

1910.178(l)(3)(i) Truck-related topics

- A. Operating instructions, warnings and precautions for the types of truck the operator will be authorized to operate
- B. Differences between the truck and automobile
- C. Truck controls and instrumentation, e.g., where they are located, what they do and how they work
- D. Engine or motor operation
- E. Steering and maneuvering
- F. Visibility, including restrictions due to loading
- G. Fork and attachment adaptation, operation and use limitations
- H. Vehicle capacity
- I. Vehicle stability
- J. Any vehicle inspection and maintenance the operator will be required to perform
- K. Refueling and/or charging and recharging of batteries
- L. Operating limitations
- M. Any other operating instructions, warnings or precautions listed in the operator's manual for the types of vehicle that the employee is being trained to operate

1910.178(l)(3)(ii) Workplace-related topics

- A. Surface conditions where the vehicle will be operated
- B. Composition of loads to be carried and load stability
- C. Load manipulation, stacking and unstacking
- D. Pedestrian traffic in areas where the vehicle will be operated
- E. Narrow aisles and other restricted places where the vehicle will be operated
- F. Hazardous (classified) locations where the vehicle will be operated
- G. Ramps and other sloped surfaces that could affect the vehicle's stability
- H. Closed environments and other areas where insufficient ventilation or poor vehicle maintenance could cause a buildup of carbon monoxide or diesel exhaust
- I. Other unique or potentially hazardous environmental conditions in the workplace that could affect safe operation

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