

**STANDARDS PRESENTATION  
TO  
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,  
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 3649 to read:

§3649. Definitions.

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Crawler (Track-Type) Tractor. A tractor having two continuous, parallel crawler belts, consisting of a series of tread shoes or links, encompassing rollers and drive tumblers, supporting a base frame which houses the propelling mechanism.

Hydrogen Powered Industrial Truck (HPIT). A Type CGH (compressed gaseous hydrogen) industrial truck powered by hydrogen.

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Industrial Truck. A mobile power-driven truck used for hauling, pushing, lifting, or tiering materials where normal work is normally confined within the boundaries of a place of employment. As used in this definition, industrial trucks include unmanned automated or semi-automated transport vehicles which utilize wheels and run on guide rails or narrow gauge rail tracks and can be operated by either remote control (i.e. a hand held pendant) or radio communication.

Industrial Truck, Hydrogen Powered. See Hydrogen Powered Industrial Truck (HPIT).

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Self-Propelled Implement. A self-propelled machine on which the implement is an integral part, such as, but not limited to, grain and bean combines, beet harvesters, corn and cotton pickers, hay balers and sprayers.

Type Designation. A system for identifying types of powered industrial trucks as provided in NFPA 505-2018, Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations.

Type Designation CGH. A compressed hydrogen powered unit utilizing a fuel cell that has minimum acceptable safeguards against inherent fire and electrical shock hazards.

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Type Designation E. An electrically powered unit that has minimum acceptable safeguards against inherent fire and electrical shock hazards.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 3650 to read:

§3650. Industrial Trucks. General.

(a) Industrial trucks manufactured after March 15, 2009, shall be labeled as meeting the design and construction requirements of the following ~~applicable~~ standards which are hereby incorporated by reference:

ANSI/ITSDF B56.1 - 2005, Safety Standard for Low Lift and High Lift Trucks

ANSI/ITSDF B56.5 - 2005, Safety Standard for Guided Industrial Vehicles and Automated Functions of Manned Industrial Vehicles

ANSI/ITSDF B56.6 - 2005, Safety Standard for Rough Terrain Forklift Trucks

ANSI/ITSDF B56.8 - 2006, Safety Standard for Personnel and Burden Carriers

ANSI/ITSDF B56.9 - 2007, Safety Standard for Operator Controlled Industrial Tow Tractors

ANSI/ITSDF B56.10 - 2006, Safety Standard for Manually Propelled High Lift Industrial Trucks

NFPA 505 - 2006, Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations

UL 583 - 1996, Standard for Safety, Electric-Battery-Powered Industrial Trucks

UL 558 - 1996, Standard for Safety, Industrial Trucks, Internal Combustion Engine-Powered

(b)(1) All low lift and high lift trucks manufactured after June 26, 1998, through March 15, 2009 shall be labeled as meeting either the design and construction requirements of Part III, ASME B56.1-1993, Safety Standard for Low Lift and High Lift Trucks or Part III of the ANSI/ITSDF B56.1-2005 standard. All low lift and high lift trucks manufactured on or before June 26, 1998, shall be labeled as meeting either the design and construction requirements of the ASME standard indicated above or Part II, of the ANSI B56.1-1975 standard.

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(2) Except as provided in subsection (b)(1), industrial trucks manufactured after September 1, 1991 through March 1, 1999 shall have affixed a legible tag or label stating compliance with the following ~~applicable~~ standards or those listed in subsection (b)(3):

NFPA 505-1987, formerly ANSI B56.2-1987, for powered industrial trucks,

UL 583-1984, formerly ANSI B56.3-1977, for electric-battery-powered industrial trucks,

UL 558-1984, formerly ANSI B56.4-1977, for internal combustion engine powered industrial trucks,

ANSI/ASME B56.5-1988 for guided industrial vehicles,

ANSI/ASME B56.6-1987 for rough terrain forklift trucks,

ANSI/ASME B56.7-1987 for industrial crane trucks,

ANSI/ASME B56.8-1988 for personnel and burden carriers,

ANSI/ASME B56.9-1987 for operator controlled industrial tow tractors.

(3) Except as provided in subsections (a) and (b)(1), industrial trucks manufactured after March 1, 1999 shall have affixed a legible tag or label stating compliance with the following ~~applicable~~ standards:

NFPA 505-1987, formerly ANSI B56.2-1978, for powered industrial trucks,

UL 583-1991, for electric-battery-powered industrial trucks,

UL 558-1991, for internal combustion engine powered industrial trucks,

ASME B56.5-1993, for guided industrial vehicles and automated functions of manned industrial vehicles,

ASME B56.6-1992, for rough terrain forklift trucks,

ANSI/ASME B56.7-1987, for industrial crane trucks,

ASME B56.8-1993, for personnel and burden carriers,

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ASME B56.9-1992, for operator controlled industrial tow tractors.

(4) Hydrogen Powered Industrial Trucks (HPIT) shall be labeled as meeting the design and construction requirements of ANSI-ITSDF B56.1a (2018), Safety Standards for Low Lift and High Lift Trucks, which is hereby incorporated by reference.

(45) All name plates and model number, type designation and load capacity markings on industrial trucks, shall be maintained in a legible condition by the employer.

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(f) Truck Conversion.

(1) Industrial trucks originally approved for the use of gasoline for fuel may be converted to use liquefied petroleum gas fuel provided the complete conversion results in a truck which embodies the features specified for LP or LPS designated trucks as defined in Chapter 1-3, of NFPA 505-1987, which is herein incorporated by reference. Such conversion equipment shall be approved.

(1A) When a conversion kit is installed, the original type designation shall be removed or obliterated and replaced with a durable, corrosion-resistant plate permanently mounted on the truck indicating the type designation of the converted truck.

(2) Industrial trucks originally approved for the use of electric batteries (truck designated as Type E) may be converted to use compressed hydrogen fuel cells (truck designated as Type CGH) provided:

(A) The modified truck meets the requirements provided in UL-2267 (2013) Standard for Fuel Cell Power Systems for Installation in Industrial Electric Trucks for the trucks designated as Type CGH.

(B) The modified truck has a durable, corrosion-resistant plate indicating the converted type designation of the truck for permanent mounting adjacent to the manufacturer's nameplate on the truck.

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(h) Only industrial trucks approved for the exposure may be operated in atmospheres containing hazardous quantities of combustible dusts and ignitable fibers. Approval and area designation shall be based on NFPA 505-1982 with appropriate labeling.

EXCEPTION to subsection (h): HPIT used in accordance with the California Fire Code, Chapter 23 (2019).

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NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 3663 to read:

§3663. Maintenance of Industrial Trucks.

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(g) Industrial trucks shall not be altered so that the relative positions of the various parts are different from what they were when originally received from the manufacturer, nor shall they be altered either by the addition of extra parts not provided by the manufacturer or by the elimination of any parts, except as provided in subsection (h) of this Section. Additional counterweighting of fork trucks shall not be done unless approved by the truck manufacturer.

~~(h) Industrial trucks originally approved for the use of gasoline for fuel may be converted to liquefied petroleum gas fuel provided the complete conversion results in a truck which embodies the features specified for LP or LPG designated trucks. Such conversion equipment shall be approved.~~

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 3669 to read:

§3669. ~~Operating Rules~~ Fueling of Industrial Trucks.

(a) Liquid and gaseous fueled industrial trucks shall be fueled as required in Chapter 23 of the 2019 California Fire Code.

(b) Hydrogen Powered Industrial Trucks (HPIT). In addition to meeting the requirements of subsection 3669(a), the HPIT shall be fueled following the requirements below:

(1) The fueling shall be performed:

(A) Following the requirements of Chapter 10 of NFPA 2-2020, Hydrogen Technologies Code.

(B) Following the dispenser, truck, and fuel cell power system operating instructions.

(2) During fueling, the operator shall monitor the safe fueling operation from the fueling station.

(3) The driver, operator, or attendant of the truck shall remain outside the cab during fueling.

(4) The truck shall be prevented from moving during fueling.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.