

Truck Cranes

Description:

The OSHA standard sets out inspection, operating procedures, marking requirements and authorized personnel requirements for the use of truck-mounted cranes.

Regulatory Reference

29 CFR § 1910.180 Crawler locomotive and truck cranes.

Applies to:

Truck-mounted cranes used to lift and position loads such as ASME tanks or process equipment are covered by the regulation.

General Requirements:

Only designated personnel shall be permitted to operate a crane covered by the regulation. Regular inspection of truck cranes must be provided and cranes operated on a "frequent" basis should be inspected on a daily to monthly basis.

- (1) Definitions of crane types and associated terms and equipment are found in section (a).
- (2) General requirements for crane operations are located in section (b), including references to ANSI standards that apply to equipment, designated personnel requirement.
- (3) Section (c) gives requirements for load ratings, legible load rating chart(s) affixed to the crane use of outriggers and leveling of the crane.
- (4) Inspection intervals and criteria, and requirements for inspection records are given in section (d).
- (5) Section (e) gives requirements for testing of cranes and associated devices, as well as guidance for test records for production cranes and multi-manufacturer cranes. Section (f) requires that all guards and safety devices removed for testing must be replaced before the crane is used for normal operations.
- (6) Section (f) gives inspection and maintenance requirements for cables and ropes used with cranes.
- (7) Minimum operating procedures for loaded operations are set out in section. (h)
- (8) Section (i) addresses other operating topics such as fire extinguishers, refueling, proper stowage of materials, and ballast and counter-weight limitations.
- (9) Operations near overhead lines (electrical) are the subject of section (j), which refers back to 29 CFR § 1910.133(c)(3).

Training Requirements:

There are implied operator training requirements in the truck-mounted crane standards, and specific requirements related to fire extinguisher training.

Designated personnel who operate cranes should be trained in the requirements of 29 CFR § 1910.180, and should be provided with crane manufacturer's operating instructions. Persons who inspect or test truck-mounted cranes should have documented training as well.

Maintenance and Review

Company standard operating procedures (SOP) should include provisions for periodic inspection of truck-mounted cranes, and clear descriptions of which employees are "designated" operating personnel.

Training of designated personnel and maintenance mechanics should include the OSHA standards on truck-mounted cranes, slings, and electrical safety. Periodic reviews of training and inspection records should be set out in SOPs and verified by safety program managers.

Additional Information and Resources

Original equipment manufacturer's operating instruction manuals and maintenance manuals should be maintained, and made available for reference to operating personnel.