



CRANES

FORKLIFTS

BELOW-THE-HOOK
DEVICES

SERVICE

REPAIR

INSPECTION

CERTIFICATION

INSTALLATION

TESTING

PARTS

COMPONENTRY

CONSULTATION

TRAINING

TENSILE TESTING

STEEL &
ALUMINUM
FABRICATION

A Guideline to: Record Keeping, Preventive Maintenance, Inspection, Unit Proof Load Testing as Required by The State of California Code of Regulations. Cranes Less Than/Above 3 Ton Capacity and Slings used for Lifting.

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About this guide:

The California Code of Regulations, Title 8, Division 1, Chapter 4, subchapters 5 & 7 speaks to the safe operation and maintenance of overhead cranes, hoists and their accessory gear. These regulation are enforced by the Division of Occupational Safety and Health(DOSH). While the intent of the subject regulations is clear, their interpretation and requirements are sometimes unclear. We have compiled a brief summary for you, the customer and equipment user, to assist in your understanding of the actions necessary to ensure your compliance with the mandates of the regulatory agencies involved. This brochure is intended as a guideline to assist in your understanding and to provide reference to the regulations that apply. For a complete and detailed listing of the precise requirements, consult Title 8 of the California Code of Regulations. As you review this summary you will find the paragraph numbers of the pertinent Title 8 sections displayed parenthetically.

Record Keeping-The record keeping requirements include a Daily Operator Inspection Log (5031), Quarterly Inspection Record (5033), Preventive Maintenance Program Log (5033), Wire Rope Inspection Log (5031), Annual Examination Certificate (5021,5025) and for devices great than three ton capacity, a Quadrennial Unit Proof Test Certificate (5021, 5025). These records are to be kept at or near the point of use. These records will be requested by the Surveyor during an Annual Examination or Quadrennial Unit Proof Test, or inspection conducted by the Division. A copy of you most recent Quadrennial Certification must be attached to any Annual Examination Certificate when forwarded to the Division.

Cranes & Hoists Greater Than 3 Ton Capacity:

Preventive Maintenance- A PM program based on the manufactures or certified agents recommendations with dated, detailed records must be in effect (5033, 3/3/93 DOSH letter). Adjustments and repairs must be made by qualified persons (5034). Maintenance must be performed as recommended by the manufacture and the equipment must be maintained in safe operating condition. Maintenance is to be performed only by qualified personnel (3328).

Inspection-Inspection is to be performed daily by the operator, the sooner of every 3 months or 750 operating hours by a qualified person with records kept and annually by a crane certifier with records kept. If the equipment is idle for 1 month or more, the rope must be inspected by a qualified person before use, with records kept (5031, 3/3/93 DOSH letter).

Unit Proof Testing-The Equipment must be partially loaded and run through its range of motion and concurrent with the Annual Examination for that year and by a certifier with

records kept. Quadrennial Examination and Proof Load Testing (every for years at 125% of capacity load) is also required (5021). Unit Proof Testing with inspection is also required for the following circumstances: Before placing a new device into service, or following a structural repair/replacement, or if the equipment has been out of service for 6 months or more (5022).

Cranes & Hoists Less Than 3 Ton Capacity:

Preventive Maintenance-A PM program based on the manufactures or certified agents recommendations with dated, detailed records must be in effect (5033, 3/3/93 DOSH letter). Adjustments and repairs must be made by a qualified persons (5034). Maintenance must be performed as recommended by the manufacturer and the equipment must be maintained in safe operating condition. Maintenance is to be performed only by qualified personnel (3328).

Inspection-Inspection is to be performed daily by the operator, the sooner of every 3 months of 750 operating hours by a qualified person with records kept and annually by a qualified person with records kept. If the equipment is idle for 1 month or more, the rope must be inspected by a qualified person before use, with records kept (5031, 3/3/93 DOSH letter).

Unit Proof Testing-Unit Proof Testing is required before placing a new device into service and or following a structural repair/replacements only. It is strongly recommended to regularly perform Unit Proof Testing on all equipment regardless of capacity (3/3/93 DOSH letter).

What is the definition of a “qualified person”?-Per ANSI B30.11, 1988: A person who, by profession of recognized degree, or certificate of professional standing, or who, by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work.

The Following Requirements Apply to Slings:

Inspection-Slings are to be inspected daily, before and during use per manufactures recommendations (5043,5048). Alloy steel chain slings must be periodically thoroughly inspected based on the frequency of use, severity of service, nature of the lift and experience in similar circumstances, but the period shall not exceed 12 month and shall be performed by a qualified person with records kept by the owner (5043, 5044).

Unit Proof Testing-The unit proof testing of new or repaired alloy chain slings and repaired synthetic web slings shall result in a certificate of proof test that must be retained by the owner and available for inspection by Cal OSHA for the service life of the sling (5044, 5048).

Alloy steel chain slings are to be proof tested before use, if new, reconditioned or repaired, with all welded components being tested at 200% of working load minimum per manufactures recommendations and records are to be kept by the owner (5044, 5048).

Wire rope slings shall have manufactures certificates maintained, by the owner, stating that certain prototype and randomly sampled welded end attachments have been proof tested at 200% of the working load (5045).

Metal mesh slings shall be proof tested at 150% of rated capacity by manufacturer or equivalent when new or repaired, including the handles (5046).

At All American crane, we understand the integral part that your cranes play in everyday production operations and the costly effect of downtime and loss of production. As **State licensed crane certifiers**, we are very aware of the ever-changing regulatory requirements that directly affect the compliance status of your equipment.

All American Crane Maintenance offers an all encompassing **Service Program** designed to **minimize unexpected equipment breakdowns, maximize compliance with State regulations** and **optimize the use of your time** by putting the painstaking chore of **preventive maintenance scheduling** and **record keeping** on our shoulders, not yours.

As a **Service Program** member, you will be contacted in advance to schedule your Preventive Maintenance+Inspection (PMI) your Annual Examination for Certification (A) and your Unit Proof Load Test (UPT). A copy of your records will be maintained at our offices and if DOSH (Cal OSHA) wishes to review your records or inspect your facility, we will be at your side as your advocate.

Coupling this with our other crane related services, we feel very confident in our abilities to become your **full line crane service corporation**. **Service Program** members throughout our history in business, have been served professionally and thoroughly. **The All American Crane Service Program** covers all bases utilizing a very organized approach.

Proud Member: Crane Certification Association of America



Product and Service Offerings

Overhead Cranes

- 24 hour Emergency Service
- Scheduled Inspection Programs
- Scheduled Preventive Maintenance Programs
- Repair, Upgrade & Modernization of all brands of hoists and cranes
- Cal OSHA Certification of Annual Examination and Unit Proof Testing
- Installation of complete cranes, hoists or new componentry
- Fabrication of new cranes and supporting structures
- Spare Parts for all major brands of hoists and cranes
- Sales of complete crane systems or individual components
- Technical Consultation for material handling system changes
- Training and Safety Instruction of your crane operators

Mobile Cranes

- 24 hour Emergency Service
- Scheduled Inspection Programs
- Scheduled Preventive Maintenance Programs
- Repair, Upgrade & Modernization of all brands of cranes
- Cal OSHA Certification of Annual Examination and Unit Proof Testing of cranes, slings, spreader beams and lifting fixtures
- Spare Parts for all major brands of hoists and cranes

Slings and Lifting Fixtures

- 24 hour Emergency Service
- Scheduled Inspection Programs
- Cal OSHA Unit Proof Testing
- Inspection and Certification

Aircraft Ground Support Equipment

- Inspection, Testing & Repair
- Axle & Tripod Jacks
- Specialty Lifting Fixtures

Aerial Devices, Bucket Trucks & Man-Lifts

- PM Programs
- ANSI Inspections & Testing
- Dielectric Testing
- Parts & Repair
- **Lifting Magnets** - Sales & Repair
- **Motor Rewind & Repair**
- **Steel & Aluminum Fabrication**
- **Engineering & Consultation**
- **Foundations & Footings**
- **Dye Penetrant Testing**