TRAINING

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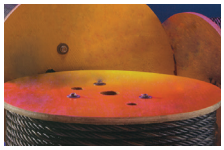
CRANES


CRANE SERVICE


WIRE ROPE


ENGINEERED PRODUCTS


HARDWARE


SLINGS

TRAINING

Thank you for attending OUR TRAINING!

We realize your time is valuable. Mazzella hopes that the time spent was productive and successful in furthering your education and/or learning about new products and services. We welcome your feedback on the training to make improvements for future sessions.

As an appreciation for your attendance and completing an online questionnaire, we would like to send you a free stainless steel tumbler. You can expect your tumbler within 7 to 10 days.

Please go to—
www.mazzellacompanies.com/trainingmug

After completing your questionnaire, check out the Mazzella Companies website and online catalog / technical manual at **www.mazzellacompanies.com** to see what we have to offer.

Again, thank you for attending!

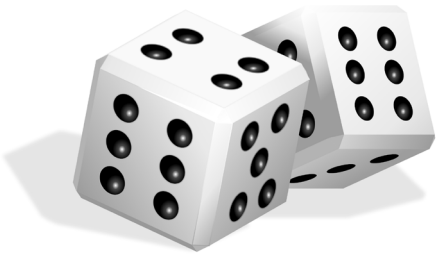
Sincerely,

Tony Mazzella

Tony Mazzella
CEO, Mazzella Companies

MAZZELLA Companies®

MAZZELLA Companies®



"Rig it right and YOU won't go wrong!"

Rig it Right	Not Wrong
_____	_____
_____	_____
_____	_____

Risk management is . . . _____

_____

A Basic Rigging Plan for: _____

❑ _____	❑ _____
❑ _____	❑ _____
❑ _____	❑ _____
❑ _____	❑ _____
❑ _____	❑ _____
❑ _____	❑ _____

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Rigging Information

INSPECTION OF RIGGING HARDWARE

INSPECTION FREQUENCY PER ASME B30.26

A visual inspection shall be performed by the user or designated person each day before the rigging hardware is used.

A periodic inspection shall be performed by a designated person, at least annually. The rigging hardware shall be examined and a determination made as to whether they constitute a hazard. Written records are required.

Semi-permanent and inaccessible locations where frequent inspections are not feasible shall have periodic inspections performed.

REJECTION CRITERIA PER ASME B30.26

Missing or illegible manufacturer's name or trademark and/or rated identification (or size as required).

A 10% or more reduction of the original dimension.

Bent, twisted, distorted, stretched, elongated, cracked or broken load bearing components.

Excessive nicks, gouges, pitting and corrosion.

Indications of heat damage including weld splatter or arc strikes, evidence of unauthorized welding.

Loose or missing nuts, bolts, cotter pins, snap rings, or other fasteners and retaining devices.

Unauthorized replacement components or other visible conditions that cause doubt as to the continued use of the sling.

Additionally inspect wire rope clips for:

1. Insufficient number of clips
2. Incorrect spacing between clips
3. Improperly tightened clips
4. Indications of damaged wire rope or wire rope slippage
5. Improper assembly

Additionally, inspect wedge sockets for:

1. Indications of damaged wire rope or wire rope slippage
2. Improper assembly

ADDITIONAL REJECTION CRITERIA PER ASME B30.10 - HOOKS

Any visibly apparent bend or twist from the plane of the unbent hook.

Any distortion causing an increase in throat opening of 5%, not to exceed 1/4".

INSPECTION OF SLINGS

INSPECTION FREQUENCY PER ASME B30.9

A visual inspection shall be performed by the user or designated person each day or shift the sling is used.

A complete inspection for damage shall be performed periodically by a designated person, at least annually.

Written records of most recent periodic inspection shall be maintained.

REJECTION CRITERIA PER ASME B30.9

Missing or illegible sling identification; evidence of heat damage; slings that are knotted; fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken; other conditions, including visible damage, that cause doubt as to the continued use of the sling.

Wire Rope Slings	Chain Slings	Web Slings	Round Slings
Excessive broken wires, for strand-laid and single part slings, ten randomly distributed broken wires in one rope lay or five broken wires in one strand in one rope lay.	Cracks or breaks.	Acid or caustic burns.	Acid or caustic burns.
Serve localized abrasion or scraping, kinking, crushing, birdcaging.	Excessive wear, nicks or gouges.	Melting or charring of any part of the sling.	Evidence of heat damage.
Any other damage resulting in damage to the rope structure.	Stretched chain links or components.	Holes, tears, cuts or snags.	Holes, tears, cuts, abrasive wear or snags that expose the core yarns.
Serve corrosion of the rope or end attachments.	Bent, twisted or deformed chain links or components.	Broken or worn stitching in load bearing splices.	Broken or damaged core yarns.
	Excessive pitting or corrosion.	Excessive abrasive wear.	Weld splatter that exposes core yarns.
	Lack of ability of chain or components to hinge freely.	Discoloration and brittle or stiff areas on any part of the sling, which may mean chemical or ultraviolet/sunlight damage.	Discoloration and brittle or stiff areas on any part of the slings, which may mean chemical or other damage.
	Weld splatter.		

MAZZELLA FHS
HOIST & CRANE SERVICE

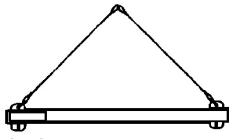
Overhead Crane Daily Operator Check List

Inspection Item		Condtion			Description
		OK	Repair	N/A	
1	Crane Tagged or Locked Out				Check that the crane or hoist is not tagged or locked out.
2	Control Devices				Check the stop/start for proper operation and that all motions agree with control device.
3	Brakes				Check that all motions do not have excessive drift and that stopping distances are normal.
4	Hook				Check for damage, cracks, nicks gouges deformations of the throat opening, twist, waer in the saddle or laod bearing point.
5	Hook Latch				Check that hook latch is not missing and that it opeartes properly.
6	Wire Rope				Check for broken wires or strands, deformation or damage to the rope structure.
7	Chain				Check for stretch, twists, bends, nicks, gouges, wear or deformation.
8	Reeving				Check that the wire rope or chain is properly reeved and that the parts are not twisted around each other.
9	Limit Switches				Check that the upper limit device stops lifting motion of the hoist laod block before striking any part of the hoist or crane.
10	Oil Leakage				Check for any sign of oil leakage on the crane and on the floor area beneath the crane.
11	Unusual Sounds				Check for any unusual sounds from the crane or hoist mechanism while operating the crane and hoist.
12	Warning and Safety Labels				Check that warning and other safety labels are not missing and that they are legible.
13	Miscellaneous				

For Service, Inspection or Repair call Mazzella / FHS Crane Service at 1.877.96CRANE

Below-The-Hook Lifting Devices ASME B30.20

1. A nameplate or other permanent marking shall be affixed displaying the following:
   a. Manufacturer's name and address
   b. Serial number
   c. Lifter weight, if over 100 lbs. (45kg)
   d. Rated load
2. Design factor shall be a minimum of 3, based on yield strength, for load bearing structural components.
3. All welding shall be in accordance with ANSI/AWS D14.1.
4. Exposed moving parts constituting a hazard under normal operating conditions should be guarded.



5. Electrical components and wiring shall comply with Article 610 of ANSI/NFPA 70.
6. During frequent or periodic inspections, any deficiencies, such as listed below, shall be carefully examined, and determined made as to whether they constitute a hazard:
   a. Structural deformation, cracks, or excessive wear on any part of the lifter
   b. Loose or missing guards, fasteners, covers, stops or nameplates
   c. All functional operating mechanisms for misadjustments interfering with operation
   d. Loose bolts or fasteners
   e. Cracked or worn gears, pulleys, sheaves, sprockets, bearings, chains and belts
   f. Excessive wear of friction pads, linkages, and other mechanical parts
   g. Excessive wear at hoist hooking points and load support clevises or pins