

Rigging Inspection

Selecting the correct rigging is an important part of preventing crane-rigging accidents. If you are a rigger or are assisting one, you have a role in preventing crane accidents by properly inspecting the rigging that is being used.

When inspecting rigging, look for the following:

WIRE ROPE SLINGS	NYLON WEB SLINGS	POLYESTER ROUND SLINGS
<ol style="list-style-type: none"> 1. Five broken wires in one strand in one rope lay. 2. Ten randomly distributed broken wires in one rope lay. 3. Kinked or crushed. 4. Bird caging. 5. Evidence of severe corrosion. 6. Evidence of heat damage from any cause. 7. Abrasion causing loss or more than 1/3 of the original diameter of outside wires. 8. Capacity tag missing or not legible. <p>Note: Don't forget to wear puncture-resistant gloves when inspecting wire rope slings to prevent hand injury from broken wires. Use hand-over-hand inspection method.</p>	<ol style="list-style-type: none"> 1. Excessive wear. 2. Cuts or burns from sliding on a sharp edge or being wrapped around a sharp edge. 3. Red indicator threads exposed. 4. Identification tag is not readable. 5. Evidence of corrosion. 6. Holes from puncture or melted by slag. 7. Ensure that there are no knots, and that slings are not tied together. <p>Note: Always use protective sleeves and/or softeners when lifting items with rough or sharp edges. Use wire rope if able before using nylon slings.</p>	<ol style="list-style-type: none"> 1. Acid or caustic burns (discoloration could be chemical burns). 2. Evidence of heat damage. 3. Knots in any part of the sling. 4. Holes, cuts, tears, abrasive wear, snags that expose the core yarn. 5. Broken or damaged core yarn (located in inner jacket). 6. Missing or illegible sling identification tag. 7. Inner jacket liner is damaged. <p>Note: When the outer protective jacket exposes the inner jacket, consider taking the sling out of service.</p>

If any of the conditions listed above are identified, tag and remove the rigging from service immediately.

Key Points:

- Rigging must be inspected prior to each use, and throughout the day as needed.
- Rigging must be inspected monthly and color-coded in accordance with Cajun requirements. (Note: Client/site might use an alternate color code system, this is acceptable as well)
- Rigging used to hoist people or as part of a fall protection system must be marked for personnel only and not be used for making a material lift.
- The load that is being lifted must not exceed the rating capacity listed on the rigging.
- Remove from service any rigging you are unsure about.



Course Name:		Course Description:	
Rigging Inspection		HATbox	
Instructor Name: (please print neatly)		Instructor Signature:	
Employee Name: (please print clearly)		Employee Signature:	
Employee #: (please print clearly)	Job #	Score	Date

Rigging Inspection Quiz

1. ___ True ___ False If you notice a capacity tag missing on a wire-rope sling, it is acceptable to keep using it.
2. ___ True ___ False Red indicator threads that are exposed on a nylon sling are an indicator that the sling needs to be taken out of service.
3. ___ True ___ False Rigging should be inspected and color-coded once every 45 days.
4. ___ True ___ False It is safe to use rigging that has been exposed to chemicals as long as the rigging has been wiped off and is dry before use.
5. ___ True ___ False If the inner liner jacket on a round sling is damaged, the sling must be removed from service.
6. ___ True ___ False Proper care and storage of rigging extends its service life.
7. ___ True ___ False Rigging must be inspected prior to each use, and throughout the day as needed.
8. ___ True ___ False The load that is being lifted must not exceed the rating capacity listed on the rigging.
9. ___ True ___ False Cuts and burns on slings are acceptable as long as there are not more than five on each sling.
10. ___ True ___ False If the capacity tag on a piece of rigging is not readable, the rigging must be tagged and removed from service.

Rigging Inspection Quiz Answer Key

1. True False If you notice a capacity tag missing on a wire-rope sling, it is acceptable to keep using it.
2. True False Red indicator threads that are exposed on a nylon sling are an indicator that the sling needs to be taken out of service.
3. True False Rigging should be inspected and color-coded once every 45 days.
4. True False It is safe to use rigging that has been exposed to chemicals as long as the rigging has been wiped off and is dry before use.
5. True False If the inner liner jacket on a round sling is damaged, the sling must be removed from service.
6. True False Proper care and storage of rigging extends its service life.
7. True False Rigging must be inspected prior to each use, and throughout the day as needed.
8. True False The load that is being lifted must not exceed the rating capacity listed on the rigging.
9. True False Cuts and burns on slings are acceptable as long as there are not more than five on each sling.
10. True False If the capacity tag on a piece of rigging is not readable, the rigging must be tagged and removed from service.