

WORKER BEING EVALUATED: _____

EVALUATOR: _____

LOCATION: _____ DATE: _____

This evaluation form can be used as a demonstration or knowledge-based competency of a worker's understanding of a Link or Ring. It can be used by either Workers or Employers to assess their knowledge.

The ASME B30.26 Standard has been used for reference when compiling this evaluation. ASME B30.26 states that the Link and Ring Manufacturer specifications must also be referenced to provide specific information required for the Selection, Inspection, Limitations and Use.

EMPLOYER	YES	NO
READ THE CAPITALIZED WORDS, can the Employer successfully explain and complete the following.		
1) COMPLIANCE TO STANDARDS) THE EMPLOYER TO VERIFY THE LINK OR RING IS COMPLIANT TO A STANDARD. Compliance to a standard should be confirmed in the manufacturer's specifications, <i>generally the ASME B30.26 standard in North America.</i>		
2) DESIGN FACTORS DOES THE EMPLOYER KNOW THE DESIGN FACTOR ASSOCIATED WITH THE LINK OR RING BEING USED. This is the point it will break above its rated load. <i>ASME B30.26 states 5:1 minimum.</i>		
3) MANUFACTURERS SPECIFICATIONS THE EMPLOYER MUST HAVE THE MANUFACTURERS SPECIFICATIONS READILY AVAILABLE. The only way a worker can be assessed is if they have been given the manufactures specification for the product being evaluated on, as manufactures specifications differ. <i>This information will provide the worker its limitations, use and inspection requirements.</i>		
4) PERIODIC INSPECTIONS THE EMPLOYER IS RESPONSIBLE TO ENSURE THAT THE LINK OR RING HAS HAD A PERIODIC INSPECTION. These are the inspections required by the ASME B30.26 standard that the employer must ensure are completed. <i>At a minimum annually.</i>		
5) STORAGE THE EMPLOYER IS RESPONSIBLE TO ENSURE PROPER LINK OR RING STORAGE WHEN NOT IN USE. Storage is important to stop or reduce possible damage to the link or ring whether it be mechanical, chemical or temperature related. <i>What is your company's storage policy?</i>		

LINK AND RING KNOWLEDGE Evaluator to READ THE CAPITALIZED WORDS and see if the worker can successfully explain the following.	COMPETENT	NEEDS COACHING
6) MANUFACTURERS SPECIFICATIONS DOES THE WORKER HAVE ACCESS TO THE MANUFACTURERS SPECIFICATIONS? The worker knows that manufacturers specification are available, where they are located and why they are to be used.		
7) DESIGN FACTORS DOES THE WORKER KNOW THE DESIGN FACTOR ASSOCIATED WITH THE LINKS AND RINGS BEING USED? The worker states the minimum required design factor of links and rings. <i>ASME B30.26 states 5:1.</i>		
8) PERIODIC INSPECTIONS CAN THE WORKER VERIFY THAT THE LINK OR RING HAS HAD A PERIODIC INSPECTION? These are the annual inspections required by the employer to complete. <i>As stated in the ASME B30.26 standard.</i>		
9) MARKINGS - MANUFACTURER SHOW ME THE MANUFACTURERS NAME MARKING ON THE LINK OR RING. The manufacturer's name or trademark must be marked on the link or ring body. <i>This may be an actual name, but in some cases is a trademark, abbreviation or logo.</i>		
10) MARKINGS – RATED LOAD OR SIZE SHOW ME THE RATED LOAD OR SIZE MARKING ON THE LINK OR RING. Either the rated load or size must be marked on the link or ring. Rated load is usually marked with WLL “working load limit” followed by a number and unit that can be US or Metric, <i>E.g. 2200 lbs or maybe 1000 kg.</i> Size is usually marked in inches or mm's, <i>E.g. ¾” or maybe 20mm.</i>		
11) MARKINGS - GRADE SHOW ME THE GRADE MARKING ON THE LINK OR RING. The grade must be marked on the link or ring if it is used to identify the rated load. <i>Grade will affect the link or rings strength and its temperature rating.</i>		
12) TEMPERATURES ASK THE WORKER WHAT THE TEMPERATURE RANGE FOR THE LINK OR RING IS FROM THE MANUFACTURER. AND HOW CAN THE WORKER VERIFY THIS? The worker knows extreme temperatures can affect the link or ring, ASME B30.26 states not below -40C or above 204 C. <i>The worker must confirm with the manufacturer as they may differ.</i>		

LINK AND RING APPLICATION Evaluator to READ THE CAPITALIZED WORDS and see if the worker can successfully explain the following.	COMPETENT	NEEDS COACHING
13) REMOVAL CRITERIA HAVE THE WORKER INSPECT THE LINK OR RING AND TELL YOU REASONS TO REMOVE THE LINK OR RING FROM SERVICE. 1. Missing or illegible identification, 2. Indications of heat damage, 3. Excessive pitting or corrosion, 4. Bends, twists, distortion, stretching, cracks or breaks, 5. Excessive nicks or gouges, 6. 10% reduction of original dimensions, 7. Evidence of unauthorized welding or modification. <i>Manufacturer will give specific criteria and must be referenced.</i>		
14) MULTIPLE SLINGS - SYMMETRICAL LOADING IF MULTIPLE SLINGS OR RIGGING HARDWARE ARE GATHERED IN THE LINK OR RING HAVE THE WORKER TELL YOU HOW THE SLINGS OR RIGGING SHOULD BE ATTACHED. The worker knows that when attaching multiple slings or rigging hardware to a link or ring they must not exceed 120 degrees included angle to keep the link or rings full rated load. <i>The slings or rigging hardware must be equal angles from the centerline of the link or ring. The worker must confirm with the manufacturer as they may differ.</i>		

15) <u>MULTIPLE SLINGS - NON-SYMMETRICAL LOADING</u> IF THE LINK OR RING IS BEING USED TO LIFT A LOAD WITH MULTIPLE SLINGS OR RIGGING HARDWARE NON-SYMMETRICALLY HAVE THE WORKER TELL YOU HOW THIS CAN AFFECT THE LINK OR RING. The worker knows that when attaching multiple slings to a link or ring non-symmetrically the manufacturer must be consulted as the rating is affected. <i>The slings would not be equal angles from the centerline of the link or ring. The worker must confirm with the manufacturer as they may differ.</i>		
16) <u>MULTIPLE SLINGS – LOAD ANGLE</u> IF THE LINK OR RING IS BEING USED TO LIFT A LOAD WITH MULTIPLE SLINGS HAVE THE WORKER TELL YOU HOW SLING ANGLES AFFECT THE LINK OR RING. The worker knows that the horizontal angle of loading shall not be less than 30 deg, unless approved by a qualified person. <i>The angle of loading affects the load on the links or rings. As the horizontal angle decreases, the effective load increases. The worker must confirm with the manufacturer as they may differ.</i>		
17) <u>STORAGE</u> HAVE THE WORKER TELL YOU WHERE THE LINK OR RING IS KEPT WHEN NOT IN USE. Storage is important to stop or reduce possible damage to the link or ring whether it be mechanical, chemical or temperature related.		

COMMENTS:

SIGNATURE OF WORKER BEING EVALUATED:

X_____

SIGNATURE OF EVALUATOR:

X_____