RIGGING RESOURCE CENTRE

SWIVEL HOIST RING COMPETENCY ASSESSMENT

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 Swivel Hoist 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 Swivel Hoist Ring Manufacturer specifications must also be referenced to provide specific information required for the Selection, Inspection, Limitations and Use.

EMPLOYER READ THE CAPITALIZED WORDS, can the Employer successfully explain and complete the following.	**YES**	**NO**
1) **<u>COMPLIANCE TO STANDARDS</u>** THE EMPLOYER TO VERIFY THE SWIVEL HOIST RING IS COMPLIANT TO A STANDARD. Compliance to a standard should be confirmed in the manufacturer's specifications, *generally the ASME B30.26 standard in North America.*		
2) **<u>DESIGN FACTORS</u>** DOES THE EMPLOYER KNOW THE DESIGN FACTOR ASSOCIATED WITH THE SWIVEL HOIST RING BEING USED, *this is the point it will break above its rated load, ASME B30.26 states 5:1*		
3) **<u>MANUFACTURERS SPECIFICATIONS</u>** 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. *This information will provide the worker its limitations, use and inspection requirements*.		
4) **<u>PERIODIC INSPECTIONS</u>** THE EMPLOYER IS RESPONSIBLE TO ENSURE THAT THE SWIVEL HOIST RING HAS HAD A PERIODIC INSPECTION**.** These are the inspections required by the ASME B30.26 standard that the employer must ensure are completed*. At a minimum annually.*		
5) **<u>STORAGE</u>** THE EMPLOYER IS RESPONSIBLE TO ENSURE PROPER SWIVEL HOIST RING STORAGE WHEN NOT IN USE. Storage is important to stop or reduce possible damage to the eyebolt whether it be mechanical, chemical or temperature related. *What is your company's storage policy?*		

SWIVEL HOIST 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 SWIVEL HOIST RING BEING USED? The worker states the minimum required design factor of swivel hoist rings. *ASME B30.26 states 5:1.*		
8) **PERIODIC INSPECTIONS** CAN THE WORKER VERIFY THAT THE SWIVEL HOIST RING HAS HAD A PERIODIC INSPECTION? These are the annual inspections required by the employer to complete. *As stated in the ASME B30.26 standard.*		
9) **MARKINGS - MANUFACTURER** SHOW ME THE MANUFACTURERS NAME MARKING ON THE SWIVEL HOIST RING. The manufacturer's name or trademark must be marked on the swivel hoist ring. *This may be an actual name, but in some cases is a trademark, abbreviation or logo.*		
10) **MARKINGS – RATED LOAD** SHOW ME THE RATED LOAD MARKING ON THE SWIVEL HOIST RING. The rated load size must be marked on the swivel hoist ring. Rated load is usually marked with WLL "working load limit" followed by a number and unit that can be US or Metric, *E.g. 2200 lbs. or maybe 1000 kg.*		
11) **MARKINGS – TORQUE VALUE** SHOW ME THE TORQUE VALUE MARKING ON THE SWIVEL HOIST RING. The torque value must be marked on the swivel hoist ring. It is how tight the swivel hoist rings fixing must be. *Usually marked in either ft/lbs (Foot/pounds) or N/m (Newton/Metres).*		
12) **TEMPERATURES** ASK THE WORKER WHAT THE TEMPERATURE RANGE OF THE SWIVEL HOIST RING IS FROM THE MANUFACTURER. AND HOW CAN THE WORKER VERIFY THIS? The worker knows extreme temperatures can affect the swivel hoist ring, ASME states not below -29 C or above 204 C. *The worker must confirm with the manufacturer as they may differ.*		

SWIVEL HOIST 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 SWIVEL HOIST RING AND TELL YOU REASONS TO REMOVE THE SWIVEL HOIST RING FROM SERVICE. 1. Missing or illegible identification, 2. Indications of heat damage, 3. Excessive pitting or corrosion, 4. Bents, twists, distortion, stretching, elongation, cracks or breaks, 5. Excessive nicks or gouges, 6. 10% reduction of original dimensions, 7. Excessive thread damage or wear, 8. Evidence of unauthorized welding or modification, 9. Lack of ability to freely rotate or pivot. *Manufacturer will give specific criteria and must be referenced.*		
14) **THREAD ENGAGEMENT – BLIND HOLE** IF A SWIVEL HOIST RING IS INSERTED INTO A THREADED BLIND HOLE HAVE THE WORKER TELL YOU WHAT THE CORRECT THREAD ENGAGEMENT IS (like an electric motor or pump) The worker knows the swivel hoist ring must be threaded into the load at least the minimum amount required by the manufacturer. ASME B30.26 states 1.5 times the swivel hoist rings thread diameter. *The worker must confirm with the manufacturer as they may differ.*		

15) **SECUREMENT – THROUGH HOLE** IF AN SWIVEL HOIST RING IS INSERTED IN A THROUGH HOLE HAVE THE WORKER TELL YOU WHAT THE CORRECT THREAD SECUREMENT IS. The worker knows to secure the swivel hoist ring with a nut and washer under the load, with the nut fully engaged as per ASME B30.26. *The worker must confirm with the manufacturer as they may differ.*		
16) **SIDE LOADING** IF THE SWIVEL HOIST RING IS BEING SIDE LOADED HAVE THE WORKER TELL YOU HOW THIS AFFECTS THE SWIVEL HOIST RING. The worker knows a swivel hoist ring can be used at all angles, it must be free to rotate and pivot, and there is no de-rating when side loaded. *The worker must confirm with the manufacturer as they may differ.*		
17) **LIFTING ATTACHMENTS** HAVE THE WORKER TELL YOU HOW A LIFTING DEVICE MUST BE ATTACHED TO THE SWIVEL HOIST RING, (like a hook or shackle) The worker knows that the attachment device must be centered into the top of the bail with no pressure on the sides of the bail. *This stops deformity or damage to the swivel hoist ring bail.*		
18) **STORAGE** HAVE THE WORKER TELL YOU WHERE THE SWIVEL HOIST RING IS KEPT WHEN NOT IN USE. Storage is important to stop or reduce possible damage to the swivel hoist ring whether it be mechanical, chemical or temperature related.		

COMMENTS:

SIGNATURE OF WORKER BEING EVALUATED:

X_____

SIGNATURE OF EVALUATOR:

X_____