

SYNTHETIC WEBBING SLING COMPETENCY ASSESSMENT

wo	RKER BEING EVALUATED:		
EVA	LUATOR:		
LOC	ATION: DATE:		
	evaluation form can be used as a demonstration or knowledge-based competency of a worker hetic Webbing Sling. It can be used by either Workers or Employers to assess their knowledge.		anding of a
Syn	ASME B30.9 Standard has been used for reference when compiling this evaluation. ASME hetic Webbing Sling Manufacturer specifications must also be referenced to provide specific in Selection, Inspection, Limitations and Use.		
RE	IPLOYER AD THE CAPITALIZED WORDS, can the Employer successfully explain and complete the owing.	YES	NO
1)	COMPLIANCE TO STANDARDS THE EMPLOYER TO VERIFY THE SLING IS COMPLIANT TO A STANDARD. Compliance to a standard should be confirmed in the manufacturer's specifications, <i>generally the ASME B30.9 standard in North America</i> .		
2)	DESIGN FACTORS DOES THE EMPLOYER KNOW THE DESIGN FACTOR ASSOCIATED WITH THE SLING BEING USED? This is the point it will break above its rated load. <i>ASME B30.9 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. This information will provide the worker its limitations, use and inspection requirements.		
4)	PERIODIC INSPECTIONS THE EMPLOYER IS RESPONSIBLE TO ENSURE THAT THE SLING HAS HAD A PERIODIC INSPECTION. These are the inspections required by the ASME B30.9 standard that the employer must ensure are completed. <i>At a minimum annually.</i>		
5)	STORAGE THE EMPLOYER IS RESPONSIBLE TO ENSURE PROPER SLING STORAGE WHEN NOT IN USE. Storage is important to stop or reduce possible damage to the sling whether it be mechanical, chemical, temperature or ultra-violet related. What is your company's storage policy?		

Eva	NTHETIC WEBBING SLING KNOWLEDGE aluator to READ THE CAPITALIZED WORDS and see if the worker can successfully plain 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 have to be used.		
7)	DESIGN FACTORS DOES THE WORKER KNOW THE DESIGN FACTOR		
	ASSOCIATED WITH THE SLING BEING USED? The worker states the minimum		
	required design factor of synthetic webbing slings. ASME B30.9 states 5:1 minimum.		
8)	PERIODIC INSPECTIONS CAN THE WORKER VERIFY THAT THE SLING HAS		
	HAD A PERIODIC INSPECTION? These are the annual inspections required by the		
	employer to complete. As stated in the ASME B30.9 standard.		
9)	MARKINGS - MANUFACTURER SHOW ME THE MANUFACTURERS NAME		
	MARKING ON THE SLING. The manufacturer's name or trademark must be marked		
	on the information tag. This may be an actual name, but in some cases is a trademark		
	or abbreviation.		
10)	MARKINGS - CODE OR STOCK NUMBER SHOW ME THE MANUFACTURERS		
	CODE OR STOCK NUMBER MARKING ON THE SLING. The manufacturers code		
	or stock number must be marked on the information tag. So the sling has traceability		
	for inspection or certification.		
11)	MARKINGS - RATED LOAD SHOW ME THE RATED LOAD MARKING ON THE		
	SLING. The rated load must be marked on the information tag. Usually marked with		
	WLL "working load limit" followed by a number and unit that can be US or Metric <i>E.g.</i>		
	2200 lbs. or maybe 1000 kg.		
12)	MARKINGS - MATERIAL SHOW ME THE SYNTHETIC WEBBING MATERIAL		
	MARKING ON THE SLING. The synthetic webbing material must be marked on the		
	information tag. Webbing slings are made from Nylon or Polyester.		
13)	MARKINGS - LEGS SHOW ME THE NUMBER OF LEGS MARKING ON THE		
	SLING. The number of legs must be marked on the information tag if the sling has		
	more than one leg. The slings rated load is based on its number of legs		
14)	TEMPERATURES ASK THE WORKER WHAT THE TEMPERATURE RANGE FOR		
	THE SLING IS FROM THE MANUFACTURER? AND HOW CAN THE WORKER		
	VERIFY THIS. The worker knows extreme temperatures can affect the sling, ASME		
	B30.9 states not below -40C or above 90 C. The worker must confirm with the		
	manufacturer as they may differ.		

SYNTHETIC WEBBING SLING APPLICATION Evaluator to READ THE CAPITALIZED WORDS and see if the worker can successfully explain the following.	COMPETENT	NEEDS COACHING
15) <u>REMOVAL CRITERIA</u> HAVE THE WORKER INSPECT THE SLING AND TELL YOU		
REASONS TO REMOVE THE SLING FROM SERVICE. 1. Missing or illegible		
identification, 2. Acid or caustic burns, 3. Melting or charring, 4. Holes, tears, cuts or		
snags, 5. Broken or worn stitching, 6. Excessive abrasive wear, 7. Knots, 8. Chemical		
or Ultraviolet damage, 9. Fittings that are pitted, corroded, cracked, bent, twisted,		
gouged, or broken. Manufacturer will give specific criteria and must be referenced.		
16) EYE DIAMETER IF THE OBJECT THE SLING EYE IS ATTACHED TO IS LARGE		
IN DIAMETER HAVE THE WORKER TELL YOU IF THE SLING WOULD BE		
AFFECTED? Over filling the sling eye will cause extra stress on the sling splice. the		
object should not be wider than one third of the eye length		

47) FROE CONTACT IF THE CLINIC IS DEING HEED ON A CHARD FROE OR	T I	
17) EDGE CONTACT IF THE SLING IS BEING USED ON A SHARP EDGE OR		
SQUARE CORNER HAVE THE WORKER TELL YOU HOW TO PROTECT THE		
SLING. All slings must be protected with a material of sufficient strength, thickness,		
and construction to prevent damage to the sling.		
18) EDGE RADIUS IF THE SLING IS BEING USED ON AN EDGE WITH A SMALL		
RADIUS HAVE THE WORKER TELL YOU THE EFFECT ON THE SLING. The slings		
rated load may be reduced if the edge radius is small. The worker must refer to the		
manufacturers' specifications. Some manufactures do not allow web slings to be used		
on corners		
19) <u>CHOKE HITCH</u> IF THE SLING IS BEING USED IN A CHOKE HITCH HAVE THE		
WORKER TELL YOU ITS RATING? A slings choke rating is not usually identified on		
the tag. Choke ratings are based on a 120° choke angle and are generally 80% of		
vertical hitch. If the choke angle is less than 120° the worker needs to identify its		
reduced ratings using the manufacturers specifications.		
20) BASKET HITCH IF THE SLING IS BEING USED IN A BASKET HITCH HAVE THE		
WORKER TELL YOU ITS RATING. A slings basket rating is not usually identified on		
the tag. Basket ratings are based on a 90° vertical hitch angle. If the basket angle is		
less than 90° the worker needs to identify its reduced ratings using the manufacturers		
specifications.		
21) DOUBLE WRAPPING IF THE SLING IS DOUBLE WRAPPED AROUND THE LOAD		
HAVE THE WORKER TELL YOU THE EFFECT ON THE SLING. Double wrapping		
the sling will assist with load control by reducing the possibility of the sling slipping or		
sliding along the load. The worker must ensure the sling does not cross over itself		
below the load.		
22) <u>SLING ANGLES</u> IF THE SLING IS BEING USED AT AN ANGLE HAVE THE		
WORKER TELL YOU THE ANGULAR RESTRICTIONS FOR THE SLING. Slings are		
restricted to a minimum horizontal sling angle. The worker must be aware of the		
minimum allowable horizontal sling angle from the manufacturer. ASME B30.9 states		
the minimum horizontal sling angle is 30 degrees.		
23) <u>SLING TENSION</u> IF THE SLING IS BEING USED OTHER THAN VERTICAL HAVE		
THE WORKER TELL YOU HOW THIS AFFECTS THE SLINGS TENSION. As the		
horizontal sling angle decreases the sling tension increase. The worker must be		
aware of the effects of the horizontal sling angle by referring to the manufacturers'		
specifications. Normally if the horizontal sling angle is 60 degrees the tension		
increases by 1.155 times (15%), at 45 degrees the tension increases by 1.414 times		
(41%) and at 30 degrees the sling tension increase by 2 times (100%).		
24) BRIDLE SLINGS IF A BRIDLE SLING IS BEING USED HAVE THE WORKER TELL		
YOU ITS RATING AT 60, 45 AND 30 DEGREES. The worker must be able to		
reference the rated loads from the manufacturer charts. As slings are only required		
to be marked for one angle.		
25) BRIDLE SLINGS IF A BRIDLE IS BEING USED HAVE THE WORKER TELL YOU		
ITS SINGLE LEG RATING. The worker must reference the manufacturers chart to		
assess the slings single leg rated load. The bridle will not provide individual leg		
ratings.		
26) MOISTURE IF THE SLING IS BEING USED IN A WET ENVIRONMENT HAVE THE		
WORKER TELL YOU HOW THIS MAY AFFECTS THE SLING. The worker knows		
water absorption can decrease the strength of nylon webbing slings by as much as		
15% although its strength will return when the sling dries completely. Polyester		
webbing slings are recommended in wet environments.		
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27) CHEMICALS IF THE SLING IS BEING EXPOSE THE WORKER TELL YOU THE POSSIBLE EFF		
knows exposing the sling to acids or alkalis can		
degradation. <i>Nylon is resistant to many alkalis</i>	9	
acids, but the worker must check the manufacture		
28) STORAGE HAVE THE WORKER TELL YOU WI	•	
NOT IN USE. Storage is important to stop or re		
whether it be mechanical, chemical, ultraviolet,		
damage will cause the sling to become discolor	•	
significant reduction in the slings rated load.		
COMMENTS:		
SIGNATURE OF WORKER BEING EVALUATED:		
X		
OLONATURE OF EVALUATOR		
SIGNATURE OF EVALUATOR:		
X	_	