

	COMPETENCY CHECKLIST Hand Rigging	CF-S-30N
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Worker:		Business unit:		Date:		
Evaluator:		Experience related to equipment: _____ years _____ months				
Knowledge				Exceeds	Meets	Below
1.	Can Identify the different types of slings (Nylons/Poly's/Wires/Bridles)	☐	☐	☐	☐	☐
2.	Can Identify the different types of mechanical lifting/pulling devices and their purposes	☐	☐	☐	☐	☐
3.	Demonstrates knowledge of SWP 54 (Rigging) and SWP 34 (Cranes, Hoists & Lifting Devices)	☐	☐	☐	☐	☐
4.	Can identify a chain fall or come-along max capacity	☐	☐	☐	☐	☐
5.	Can identify a chain fall or come-along component	☐	☐	☐	☐	☐
6.	Can explain the procedure for properly attaching and utilizing a mechanical lifting/pulling device	☐	☐	☐	☐	☐
7.	Can explain the procedure for properly inspecting slings	☐	☐	☐	☐	☐
8.	Can identify/explain various rigging configurations/capacities (e.g., basket, choke, angles)	☐	☐	☐	☐	☐
9.	Can identify appropriate shackle use (e.g., weight rating, where required, etc.)	☐	☐	☐	☐	☐
10.	Can demonstrate basic hand signals for cranes	☐	☐	☐	☐	☐
11.	Can identify when mechanical lifting/pulling devices are to be taken out of service (e.g., broken mouse, cracked hooks, damaged chains etc.)	☐	☐	☐	☐	☐
Practical (observation of actual skills)				Exceeds	Meets	Below
1.	Able to identify sling tag location and information	☐	☐	☐	☐	☐
2.	Properly inspects sling and knows when to remove from service	☐	☐	☐	☐	☐
3.	Able to identify rigging configurations (e.g., vertical, single choke, single basket, bridle configuration)	☐	☐	☐	☐	☐
4.	Able to describe and demonstrate safe working areas and body placement	☐	☐	☐	☐	☐
5.	Can properly attach a tagline to a working load	☐	☐	☐	☐	☐
6.	Can identify the proper mechanical lifting device for task at hand	☐	☐	☐	☐	☐
7.	Able to properly inspect the chain fall or come along before use	☐	☐	☐	☐	☐
8.	Able to select the appropriate shackle for the task at hand	☐	☐	☐	☐	☐
9.	Able to identify when to remove shackles from service	☐	☐	☐	☐	☐
Additional Items:						
10.		☐	☐	☐	☐	☐
11.		☐	☐	☐	☐	☐
Comments about competency or restrictions:						
☐ Competent at this time		☐ Demonstrates the ability under direct supervision		☐ Further training required, not recommended to use equipment		
Worker:		Signature:		Date:		
Evaluator:		Signature:		Date:		
Supervisor:		Signature:		Date:		



COMPETENCY CHECKLIST

Hand Rigging

CF-S-30N

REFERENCE MATERIALS

Angles in Rigging:

Angles play a huge part in determining the rated capacity of your sling. The smaller the angle between the sling and the object being lifted, the lower the rated lifting capacity.

Easy calculation to remember for a 2-sling lift

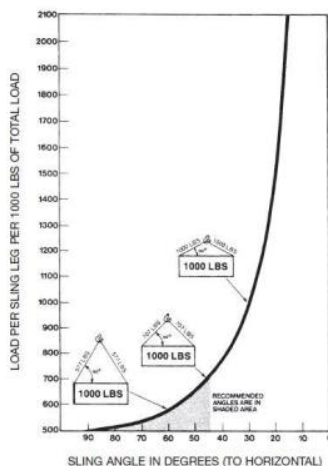
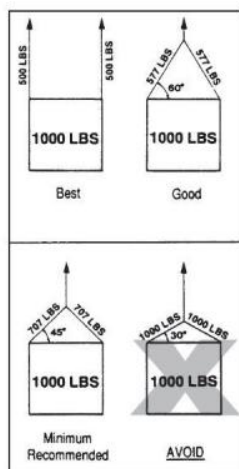
Example at 1000 lbs: =

90° – each lift 50% of load

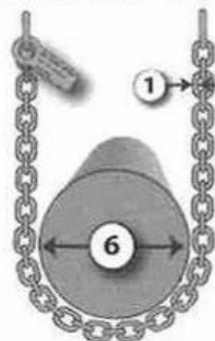
60° – 60% of load

45° – 70% of load

30° – 100% of load



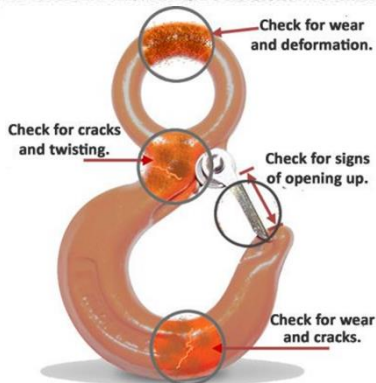
Alloy Chain Slings are rated for a 6:1 D/d ratio



D/d	Rated Capacity
6	100 %
5	90 %
4	80 %
3	70 %
2*	60 %

***NOTE: D/d less than 2
IS NOT recommended!**

ASME B30.9-2014 section 1.10.1(f) states "The rated load of a basket hitch SHALL be decreased when D/d ratios smaller than 6 are used"



Acid / Caustic Burns



Cut



Edge Cut



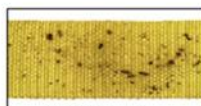
Melting / Charring



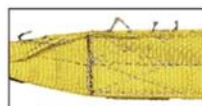
Abrasions



Puncture



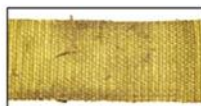
Weld Spatter



Broken / Worn Stitches



Damaged Eye



Embedded Materials



Tensile Break



Missing / Illegible Tag



UV Degradation



Red Core Yarn



Knot



Crushed Webbing



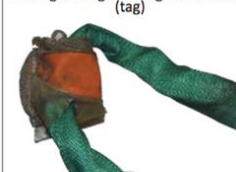
Snag



Damaged Hardware

ROUND SLING WARNINGS

Missing or illegible sling identification (tag)



Acid or caustic burns



Evidence of heat damage



Holes, tears, cuts, abrasive wear, or snags that expose core yarns



Weld splatter that exposes core yarns



Broken or damaged core yarns

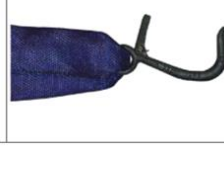


Knots in any part of the sling

Fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken



Damaged hooks per ASME B30.10



Damaged rigging hardware per ASME B30.26

