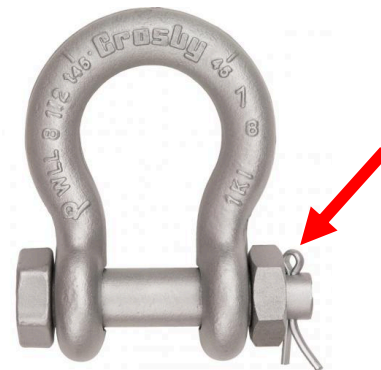
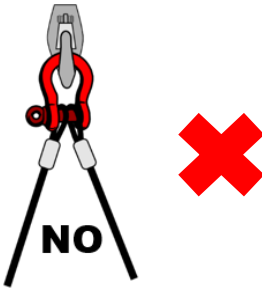
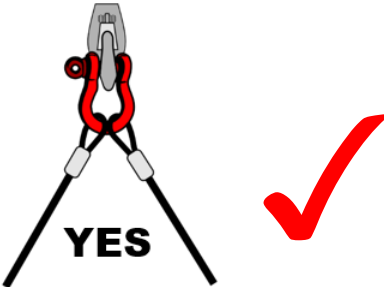
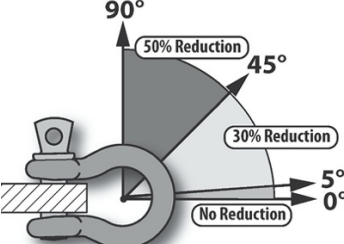



The objective of this Tool Box Talk is that it can be used as part of a safety meeting that focuses on the use of Shackles in the workplace. The ASME B30.26 standard has been referenced when compiling this document as this is the most recognized standard used in North America for selection, inspection, cautions to personnel, effects of environment, and rigging practices of shackles.

Ask members of the meeting to give answers to the following, encouraging participation whether their answers are right or wrong.

LEGISLATION	ANSWER
1) WHAT STANDARDS SHOULD THE SHACKLE COMPLY WITH?	ASME B30.26 standard.
2) WHAT OTHER INFORMATION MUST BE REFERENCED TO FIND INFORMATION?	Manufacturers Specifications
3) HOW OFTEN DO PERIODIC INSPECTIONS NEED TO BE CARRIED OUT?	At least annually (ASME), but state what your company rules are.
MARKINGS	ANSWER
4) WHAT 3 ITEMS ARE REQUIRED TO BE MARKED ON THE SHACKLE BODY?	1. Manufacturer, 2. Rated Load, 3. Size.
5) WHAT 2 ITEMS ARE REQUIRED TO BE MARKED ON THE SHACKLE PIN?	1. Manufacturer, 2. Either Grade, Material Type or Rated Load.
APPLICATION	ANSWER
6) WHAT ARE THE TEMPERATURE RANGES FOR THE SHACKLE?	Minus 40 to plus 204 Celsius.
7) NAME SOME REASONS WHY THE SHACKLE MAY HAVE TO BE REMOVED 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. Incomplete pin engagement, 8. Excessive thread damage, 9. Evidence of unauthorized welding or modification.
8) HOW TIGHT IS THE PIN TO BE ON A SCREW PIN SHACKLE?	The shackle screw pin must be hand tight, fully engaged and shouldered to the shackle body. <i>The pin should never be backed off or loosened before a lift begins.</i>
9) WHAT PARTS OF A BOLT TYPE SHACKLE MUST BE IN PLACE?	The nut must be threaded sufficiently on the bolt to allow the cotter pin to be inserted.



<p>10) CAN MULTIPLE SLINGS BE ATTACHED TO THE PIN?</p>	<p>No. Multiple slings must be attached to the shackle body.</p> 
<p>11) WHAT IS THE MAXIMUM ALLOWABLE ANGLE BETWEEN THE SLINGS (INCLUDED ANGLE) ON A SHACKLE BODY?</p>	<p>Multiple slings must not exceed 120 degrees included angle.</p> 
<p>12) CAN A SHACKLE BE SIDE LOADED?</p>	<p>Yes</p>
<p>13) DOES SIDE LOADING AFFECT THE RATED LOAD OF THE SHACKLE?</p>	<p>When a shackle is side loaded its rated load is reduced. 30% reduction between 5° - 45° from in-line 50% reduction between 46° - 90° from in-line</p> 
<p>14) CAN A SHACKLE BE USED TO MAKE A CHOKER HITCH WITH A SLING?</p>	<p>Yes, but the sling eye must be installed on the shackle pin, not the shackle body.</p> 
<p>15) WHERE IS THE BEST PLACE TO STORE SHACKLES?</p>	<p>Where they will not be affected by mechanical damage, corrosion, moisture, or adverse temperatures.</p>