

WORKER BEING EVALUATED:	<u>~</u>
EVALUATOR:	
LOCATION:	_ DATE:

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

The ASME B30.20 Standard has been used for reference when compiling this evaluation. ASME B30.20 states that the Beam Clamp 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		YES	NO
following.			
1)	COMPLIANCE TO STANDARDS THE EMPLOYER TO VERIFY THE BEAM CLAMP IS		
	COMPLIANT TO A STANDARD. Compliance to a standard should be confirmed in the		
	manufacturers, specifications, generally the ASME B30.20 standard in North America.		
2)	DESIGN FACTORS DOES THE EMPLOYER KNOW THE DESIGN FACTOR		
	ASSOCIATED WITH THE BEAM CLAMP BEING USED? This is the point it will break above		
	its rated load. The minimum required design factor of beam clamps is based on the service		
	class. The manufacturer must be consulted.		
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		
	BEAM CLAMP HAS HAD A PERIODIC INSPECTION. These are the inspections required		
	by the ASME B30.20 standard that the employer must ensure are completed. At a minimum		
	annually.		
5)	STORAGE THE EMPLOYER IS RESPONSIBLE TO ENSURE PROPER BEAM CLAMP		
	STORAGE WHEN NOT IN USE. Storage is important to stop or reduce possible damage to		
	the beam clamp whether it be mechanical, chemical or temperature related. What is your		
	company's storage policy?		

BEAM CLAMP KNOWLEDGE			NEEDS
Evaluator to READ THE CAPITALIZED WORDS and see if the worker can successfully		COMPETENT	
explain the following.			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 BEAM CLAMP BEING USED? The worker states the		
	minimum required design factor of beam clamps is based on the service class. The		
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8)	PERIODIC INSPECTIONS CAN THE WORKER VERIFY THAT THE BEAM CLAMP		
	HAS HAD A PERIODIC INSPECTION. These are the annual inspections required by		
	the employer to complete. As stated in the ASME B30.20 standard. An external coded		
•	mark on the beam clamp is an acceptable identification in lieu of records.		
9)	MARKINGS - MANUFACTURER SHOW ME THE MANUFACTURERS NAME		
	MARKING ON THE BEAM CLAMP. The manufacturer's name and contact		
	information must be marked on the beam clamp. I his may be an actual name, but in		
	some cases is a trademark or appreviation, the contact information may be an		
40			
10)	MARKINGS - SERIAL NUMBER SHOW ME THE SERIAL NUMBER MARKING ON		
	THE BEAM CLAMP. The manufacturer's model or serial number must be marked on		
44)			
- 11)	MARKINGS - CLAMP WEIGHT SHOW ME THE CLAMP WEIGHT MARKING ON		
	THE BEAM CLAMP. The beam clamps own weight must be marked on the beam		
12)			
12)	MARKINGS - RATE LOAD SHOW WE THE RATED LOAD MARKING ON THE		
	BEAM CLAMP. The falled maximum (and minimum) load of the clamp must be		
	by a number and unit that can be US or Metric E a 1 Ton 2000 lbs or maybe 1 Tonno		
	1000 kg		
12)	MARKINGS DESIGN CATEGORY SHOW ME THE DESIGN CATEGORY		
13)	MARKING ON THE BEAM CLAMP. The design category must be marked on the		
	beam clamp. Design Category refers to the beam clamps static strength criteria		
14)	MARKINGS - SERVICE CLASS SHOW ME THE SERVICE CLASS MARKING ON		
, י-י	THE BEAM CLAMP. The service class must be marked on the beam clamp. Service		
	Class refers to the beam clamps fatigue life criteria		
15)	MARKINGS - RECOULT SAFETY LAREL SHOW ME THE PRODUCT SAFETY		
13)	ABEL ON THE BEAM CLAMP. The beam clamp must have fixed to it a product		
	safety label concerning the operating procedures, cautionary language identifying		
	hazards and methods for accident prevention. The worker must refer to instruction		
	manuals for additional information		
16)	TEMPERATURES WHAT IS THE TEMPERATURE RANGE OF THE REAM OF AMP		
,	FROM THE MANUFACTURER? AND HOW CAN THE WORKER VERIEV THIS. THE		
	worker knows temperatures exceeding normal ambient temperatures can affect the		
	beam clamp. The worker must confirm with the manufacturer as they may differ.		

BEAM CLAMP APPLICATION		NEEDS
Evaluator to READ THE CAPITALIZED WORDS and see if the worker can successfully	COMPETENT	
explain the following.		COACHING
AT DEMONAL ODITEDIA HANG THE WORKED TELL YOU DEMOND TO DEMONS		
17) <u>REMOVAL CRITERIA</u> HAVE THE WORKER TELL YOU REASONS TO REMOVE		
THE BEAM CLAMP FROM SERVICE. 1. Deformity, cracks or wear, 2. Loose or		
missing, guards, fasteners, covers, stops or nameplates, 3. Excessive pitting or		
corrosion, 4. Excessive nicks or gouges, 5. Indications of near damage, including		
weid spatter of arc strikes, 6. Evidence of unauthorized weiding or modifications, 7.		
Unauthorized replacement components, 8. Improper assembly, 9. Damaged gripping		
teeth, 10. Damaged or distorted pins, 11. Damaged ball, 12. Damaged body, 13.		
Impaired, seized, or bound cam, linkage, ball movement, or locking lever, 14.		
Deformed, broken, of missing springs, 15. Broken, worn, of house cam. Manufacturer		
10) LUAD DISTRIBUTION IF A BEAM CLAMP IS AT TACHED TO A LOAD HAVE THE		
WORKER TELL FOU HOW THE LOAD WUST BE DISTRIBUTED. The worker		
cobieve belance. Ream element can be designed for encharing or position		
(autoparation or lifting) or in some same better the worker must sale at the correct hear		
(suspension of mung) of in some cases both, the worker must select the conect beam		
shall be marked assortingly and the manufacturar must be referenced		
10) I OAD SECURITY IE THE BEAM OLAMD IS BEING LISED TO SUSDEND OD LIET		
A LOAD HAVE THE WORKER TELL YOU WHAT COULD AFFECT LOAD		
SECURITY The worker knows that material hardness type thickness surface		
conditions and angle of loading can affect the clamps grinning canabilities. Clamps		
for different materials normally have different teeth or cam patterns. Manufacturer		
may give specific criteria and must be referenced		
20) MINIMUM LOAD IF THE BEAM CLAMP IS BEING LISED TO LIFT A LIGHTER		
LOAD HAVE THE WORKER TELL YOU WHAT AFFECT THERE COULD BE TO		
LOAD SECURITY The worker knows that some beam clamps have a minimum load		
rating If the load being lifted is below this weight the beam clamp is not guaranteed		
to hold the load Manufacturer may give specific criteria and must be referenced		
21) SIDE LOADING IF THE BEAM CLAMP IS BEING SIDE LOADED HAVE THE		
WORKER TELL YOU HOW THIS AFFECTS THE BEAM CLAMP. The worker knows		
that not all beam clamps can be side loaded, and those that can have a rated load		
reduction when side loading. An example would be two clamps being used as		
suspension points when drifting a load. Manufacturer may give specific criteria and		
must be referenced.		
22) ORIENTATION IF THE BEAM CLAMP IS BEING USED TO MOVE A LOAD FROM		
THE HORIZONTAL TO THE VERTICAL, OR VICE VERSA, HAVE THE WORKER		
TELL YOU HOW THIS AFFECTS THE BEAM CLAMP. The worker knows that not all		
beam clamps can be used in both orientations, and those that can may have a rated		
load reduction when flipping a load. Manufacturers may give specific criteria and must		
be referenced.		
23) LOCKS IF THE BEAM CLAMP IS DESIGNED WITH A LOCKING MECHANISM		
HAVE THE WORKER TELL YOU THE PURPOSE OF THE LOCK. The worker knows		
that the lock is designed to ensure gripping tension to the load is maintained. The		
lock must be used if provided.		
24) STORAGE HAVE THE WORKER TELL YOU WHERE THE BEAM CLAMP IS KEPT		
WHEN NOT IN USE. Storage is important to stop or reduce possible damage to the		
beam clamp whether it be mechanical, corrosive or temperature related. The clamp,		
when not in use, should be stored at an assigned location.		

COMMENTS:

SIGNATURE OF WORKER BEING EVALUATED:

X_____

SIGNATURE OF EVALUATOR:

X_____