

Rigging and Hoisting Job Performance Measure (TQ-RIG-P)

Candidate or Incumbent Name (Print)	Life/Guest/Contractor Number	Department/Division
Evaluator Name (Print)	Date JPM Completed	Bldg. Number where JPM Performed

Prerequisites

- All candidates must successfully complete prerequisite #1 prior to the administration of a JPM.
- Candidates opting to become overhead crane operators must also successfully complete prerequisite #2.

#1. _____ Completion Date for Basic Rigging Classroom Course (TQ-RIG-C or TQ-RIG-CREF)	#2. _____ Completion Date for Overhead Crane Operator CBT (HP-Q-010-W)
--	--

Verification of Skills Practice or Observation of Competent Skill

Verification of skills practice (new candidate) or observation of satisfactory equipment operations and rigging task performance (incumbent only) by the candidate's supervisor, qualified OJT instructor, or designee identified below:

_____	_____
(Print Name)	(Signature)

New Candidate Total hours of skills practice verified by the individual identified above: _____

Incumbent Operator Total hours observed performing associated job tasks by the individual identified above: _____

Equipment Operator Qualification Options

Note: Qualifying on a specific type of crane or hoist allows the trainee to operate all similar equipment with equal or lower capacities.

Overhead Crane Operator Qualifications (Mark those successfully demonstrated) 							
Equipment Type	Ton Range/Limit	Qualification Codes	Type Controls or Power				
			Manual	Pendant	Remote	Cab	
Bridge Crane	01-05 Ton	TQ-MHQUAL-CRANE-B5					
Bridge Crane	06-20 Ton	TQ-MHQUAL-CRANE-B20					
Bridge Crane	21 Ton and Over	TQ-MHQUAL-CRANE-B21					

Underhung Hoist and Support Equipment Operator Qualifications			Manual	Hydraulic	Electric	Air
Monorail Crane	01-05 Ton	TQ-MHQUAL-CRANE-M5				
Monorail Crane	06-20 Ton	TQ-MHQUAL-CRANE-M20				
Jib Crane	Over 01 Ton	TQ-MHQUAL-CRANE-J1+				
Jib Crane	Up to 01 Ton	TQ-MHQUAL-CRANE-J1				
Attach Hoist to Anchor Point	Up to 05 Ton	TQ-ATTACHUHOIST-5T				
Static Underhung Hoist	Up to 05 Ton	TQ-STATICHOIST-5T				
Come-Along Type Underhung Hoist	Up to 05 Ton	TQ-COMEALONG-5T				
Lifting Beam/Strong Back	Up to 20 Ton	TQ-LIFTBEAM-20T				
Magnetic Lifts	Up to 02 Ton	TQ-MAGNETLIFT-2T				
Suction Lifts	Up to 02 Ton	TQ-SUCTIONLIFT-2T				
Pallet Lifters	Up to 10 Ton	TQ-PALLETLIFTER-10T				

Material Lifting and Transport Equipment Qualifications			Manual	Hydraulic	Electric	Air
Portable Gantry Crane	Up to 12 Ton	TQ-PORTCRANE-12T				
Portable Automotive Lifts	Up to 05 Ton	TQ-PORTAUTOLIFT-5T				
Portable Lifts and Transport Devices	Up to 02 Ton	TQ-PORTLIFTRANS -2T				

Rigging and Hoisting Task Qualifications

Ordinary Rigging and Hoisting Task Qualifications (Mark those successfully demonstrated) 					
Core Task Descriptions	Codes	X	Select Task Descriptions	Codes	X
Develop a rig & hoist plan for ordinary lifts	TQ-MHQUAL-RIG1		Transport/handle asymmetrical loads	TQ-MHQUAL-RIG5	
Develop a rig & hoist plan for pre-engineered lifts	TQ-MHQUAL-RIG2		Move loads through, around, or over obstacles	TQ-MHQUAL-RIG6	
Specify, select, inspect, & connect rigging	TQ-MHQUAL-RIG3		Move loads in close proximities	TQ-MHQUAL-RIG7	
Transport/handle symmetrical loads	TQ-MHQUAL-RIG4		Upend, roll, invert , walk or drift suspended loads	TQ-MHQUAL-RIG8	

**** Submit form to the Training Office, Bldg 400B, after successful completion the Job Performance Measure ****

Rigging and Hoisting Job Performance Measure (TQ-RIG-P)

Evaluator Signature: _____

Date: _____

Trainee Signature: _____

Date: _____

Supervisor Signature: _____

Date: _____

Evaluator Note

- Use the not applicable (N/A) column to de-select steps and associated elements.
- Mark successfully (pass) completed steps in the corresponding "Qualification Table" on the reverse side of this form.
- The signatures above verify successful completion of this JPM and confidence that the subject candidate or incumbent is capable of performing material handling, rigging, and hoisting tasks as defined.

All select steps must be successfully completed in order to pass this JPM and be qualified in this activity

	Steps	Standard	Pass	Fail	N/A
01	Develop a Rigging and Hoisting Plan (symmetrical/asymmetrical loads; pre-engineered lifts) <ul style="list-style-type: none"> • Evaluate load characteristics; overhead hazards, route clearances and obstacles, and floor loading capacities/limits • Identify essential aerial maneuvers • Specify ground lifts, transport equipment, and material handling methods • Specify rig/hoist equipment, connection methods, and lift maneuvers • Specify PPE, exclusion zone precautions, barricading, and other safety controls Notes: <ul style="list-style-type: none"> – Caution must be exercised to safeguard against selecting suspect or counterfeit equipment and components. – Application of "over rig principle" should be evident. 	<ul style="list-style-type: none"> • Plan must be fully compliant with applicable manufacturer guidance and limits, and BNL Subject Areas • Plan must be comprehensive, thorough, accurate, and mechanically sound • Plan shall include: <ul style="list-style-type: none"> – Load weight accurate – Center of gravity accurate – Load dimensions accurate – Travel route clearances accurate – Underhung hoist anchorage and capacity – Underhung hoist type and capacity – Portable gantry crane type and capacity – Portable automotive lift or material lift & transport equipment type and capacity – Required rigging connectors, connection points, methods, and load adjusters – Sling types, capacities, lengths, hitches, sling angle (sling leg tension), and D/d ratio factors – Appropriate and reliable sling (protection) chaffing 			
02	Select and Inspect Rigging, Hoisting/Lifting and Transport Equipment	<ul style="list-style-type: none"> • Comply fully with applicable manufacturer's guidance and BNL Subject Areas 			
03	Transport loads with material lifts and moving equipment (e.g., manual lifts, hand trucks, carts, dollies, electric-hydraulic lifts, etc.)	<ul style="list-style-type: none"> • Adhere to manufacturer guidance and capacity limits • Inspect equipment thoroughly prior to use • Secure load properly during transport 			
04	Assemble/Inspect Portable Gantry Cranes	<ul style="list-style-type: none"> • Ensure assembly is mechanically sound, level, and secure, and consistent with manufacturer's guidance 			
05	Connect Rigging & Hoisting Equipment	<ul style="list-style-type: none"> • Ensure connections and anchorage are mechanically sound and secure, consistent with manufacturer guidance and good work-practices 			
06	Operate <ol style="list-style-type: none"> a. Overhead Cranes b. Portable Gantry Cranes c. Underhung Hoists & Support Equip d. Material Lifts & Transport Equip 	<ul style="list-style-type: none"> • Inspect equipment thoroughly prior to use • Identify power distribution center • Operate hoist, bridge, trolley, or boom competently, confidently, and safely without error 	a		
			b		
			c		
			d		
07	Hoist and Maneuver Suspended Loads <ol style="list-style-type: none"> a. Transport/handle asymmetrical loads b. Move loads through, around, or over obstacles c. Move loads in close proximities d. Upend, roll, invert, walk (drift) suspended loads 	<ul style="list-style-type: none"> • Ensure crew and pedestrian safety • Ensure load is balanced and secure • Demonstrate complete control over load (low, slow, and smooth transition and movement) • Avoid contact with adjacent hatches and obstacles completely • Avoid shock loading 	a		
			b		
			c		
			d		
08	Secure Rigging and Hoisting Operations	<ul style="list-style-type: none"> • Secure the load and worksite • Store rigging and hoisting equipment 			