

# 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 crane operators must also successfully complete prerequisite #2.

<b>#1.</b> _____ Completion Date for Basic Rigging Classroom Course (TQ-RIG-C; no requal)	<b>#2.</b> _____ Completion Date for Overhead Crane Operator CBT (HP-Q-010-W; 3-year requal)
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### Practical Training or Observation of Competent Skill

*I verify that the above-named new candidate has received sufficient hands-on training and practice, or I have personally witnessed the incumbent operator using the equipment to perform the tasks indicated below in a safe and competent manner.*

New Candidate Total practical training and practice hours provided by the individual identified above: \_\_\_\_\_

Incumbent Operator. Total hours observed using equipment performing associated job tasks identified below: \_\_\_\_\_

\_\_\_\_\_  
Name/Signature of Field Trainer \_\_\_\_\_ Date

### Equipment Operator Qualification Options

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

Overhead Crane				(√ Check off all successfully demonstrated)			
Equipment Type	Ton Range/Limit	Qualification Codes	Controls				
			Manual TQ-RIG-BRIDGE-M	Pendant TQ-RIG-BRIDGE-P	Remote TQ-RIG-BRIDGE-R	Cab TQ-RIG-BRIDGE-C	
Bridge Crane	1-5 Ton	TQ-MHQUAL-CRANE-B5					
Bridge Crane	6-20 Ton	TQ-MHQUAL-CRANE-B20					
Bridge Crane	21 Ton & over	TQ-MHQUAL-CRANE-B21					

Monorail Cranes			Manual TQ-RIG-MR-M	Pendant TQ-RIG-MR-P	Remote TQ-RIG-MR-R	
Monorail Crane	1-5 Ton	TQ-MHQUAL-CRANE-M5				
Monorail Crane	6-20 Ton	TQ-MHQUAL-CRANE-M20				

Jib Cranes			Manual TQ-RIG-JIB-M	Pendant TQ-RIG-JIB-P	Remote TQ-RIG-JIB-R	
Jib Crane	Up to 1 Ton	TQ-MHQUAL-CRANE-J1				
Jib Crane	Over 1 Ton	TQ-MHQUAL-CRANE-J1+				

Support Equipment			(√ Check off all successfully demonstrated)			
Attach Hoist to Anchor Point	Up to 5 Ton	TQ-ATTACHUHOIST-5T				
Static Underhung Hoist	Up to 5 Ton	TQ-STATICHOIST-5T				
Come-Along Type Underhung Hoist	Up to 5 Ton	TQ-COMEALONG-5T				
Lifting Beam/Strong Back	Up to 40 Ton	TQ-LIFTBEAM-40T				
Magnetic Lifts	Up to 2 Ton	TQ-MAGNETLIFT-2T				
Suction Lifts	Up to 2 Ton	TQ-SUCTIONLIFT-2T				
Pallet Lifters	Up to 10 Ton	TQ-PALLETLIFTER-10T				

Material Lifting and Transport Equipment			(√ Check off all successfully demonstrated)			
Portable Gantry Crane	Up to 12 Ton	TQ-PORTCRANE-12T				
Portable Automotive Lifts	Up to 5 Ton	TQ-PORTAUTOLIFT-5T				
Portable Lifts and Transports	Up to 2 Ton	TQ-PORTLIFTRANS -2T				

### Rigging and Hoisting Task Qualifications

(√ Check off all successfully demonstrated)

Task Descriptions	Codes	√	Task Descriptions	Codes	√
Develop rig & hoist plan for ordinary lifts	TQ-MHQUAL-RIG1		Transport/handle asymmetrical loads	TQ-MHQUAL-RIG5	
Develop 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	
			Use standard hand signals for crane operations	TQ-MHQUAL-RIG9	

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

Evaluator Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Trainee Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Evaluator Note**

- Mark the “Not Applicable” (N/A) column to deselect 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 named 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
<b>01</b>	<b>Develop a Rigging and Hoisting Plan (symmetrical/asymmetrical loads; pre-engineered lifts)</b> <ul style="list-style-type: none"> <li>• Evaluate load characteristics; overhead hazards, route clearances and obstacles, and floor loading capacities/limits</li> <li>• Identify essential aerial maneuvers</li> <li>• Specify ground lifts, transport equipment, and material handling methods</li> <li>• Specify rig/hoist equipment, connection methods, and lift maneuvers</li> <li>• Specify PPE, exclusion zone precautions, barricading, and other safety controls.</li> </ul> Notes: <ul style="list-style-type: none"> <li>– Caution must be exercised to safeguard against selecting suspect or counterfeit equipment and components.</li> <li>– Application of “over rig principle” should be evident.</li> </ul>	<ul style="list-style-type: none"> <li>• Plan must be fully compliant with applicable manufacturer guidance and limits, and BNL Subject Areas</li> <li>• Plan must be comprehensive, thorough, accurate, and mechanically sound.</li> <li>• Plan shall include:               <ul style="list-style-type: none"> <li>– Load weight accurate</li> <li>– Center of gravity accurate</li> <li>– Load dimensions accurate</li> <li>– Travel route clearances accurate</li> <li>– Underhung hoist anchorage and capacity</li> <li>– Underhung hoist type and capacity</li> <li>– Portable gantry crane type and capacity</li> <li>– Portable automotive lift or material lift &amp; transport equipment type and capacity</li> <li>– Required rigging connectors, connection points, and methods, and load adjusters</li> <li>– Sling types, capacities, lengths, hitches, sling angle (sling leg tension), &amp; D/d ratio factors</li> <li>– Appropriate and reliable sling (protection) chaffing</li> </ul> </li> </ul>			
<b>02</b>	<b>Transport loads with material lifts and moving equipment (e.g., manual lifts, hand trucks, carts, dollies, electric-hydraulic lifts, etc.)</b>	<ul style="list-style-type: none"> <li>• Adhere to manufacturer guidance &amp; capacity limits</li> <li>• Inspect equipment thoroughly prior to use</li> <li>• Secure load properly during transport</li> </ul>			
<b>03</b>	<b>Assemble/Inspect Portable Gantry Cranes</b>	<ul style="list-style-type: none"> <li>• Ensure assembly is mechanically sound, level, and secure, and consistent with manufacturer’s guidance</li> </ul>			
<b>04</b>	<b>Select and Inspect Rigging, Hoisting/Lifting and Transport Equipment</b>	<ul style="list-style-type: none"> <li>• Comply fully with applicable manufacturer’s guidance and BNL subject areas</li> </ul>			
<b>05</b>	<b>Connect Rigging &amp; Hoist Equipment</b>	<ul style="list-style-type: none"> <li>• Ensure connections and anchorage are mechanically sound and secure, consistent with manufacturer guidance and good work-practices</li> </ul>			
<b>06</b>	<b>Operate</b> <ol style="list-style-type: none"> <li>a. Overhead Cranes</li> <li>b. Portable Gantry Cranes</li> <li>c. Underhung Hoists &amp; Support Equip</li> <li>d. Material Lifts &amp; Transport Equip</li> </ol>	<ul style="list-style-type: none"> <li>• Inspect equipment thoroughly prior to use</li> <li>• Identify power distribution center</li> <li>• Operate hoist, bridge, trolley, or boom competently, confidently, and safely without error</li> </ul>	a		
			b		
			c		
			d		
<b>07</b>	<b>Hoist and Maneuver Suspended Loads</b> <ol style="list-style-type: none"> <li>a. Maneuver loads in close proximities to obstacles</li> <li>b. Maneuver loads through vertical &amp; horizontal accesses</li> <li>c. Walk loads using underhung hoists</li> <li>d. Upend, invert or roll loads</li> </ol>	<ul style="list-style-type: none"> <li>• Ensure crew and pedestrian safety</li> <li>• Ensure load is balanced and secure</li> <li>• Demonstrate complete control over load (low, slow, &amp; smooth transition and movement)</li> <li>• Use standard hand signals for controlling crane operations</li> <li>• Avoid contact with adjacent hatches and obstacles completely</li> <li>• Avoid shock loading</li> </ul>	a		
			b		
			c		
			d		
<b>08</b>	<b>Secure Rigging and Hoisting Operations</b>	<ul style="list-style-type: none"> <li>• Secure the load &amp; worksite</li> <li>• Store rigging and hoisting equipment</li> </ul>			

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