

# OCCUPATION ANALYSIS CHART

## *BOOM TRUCK OPERATOR*

## Boom Truck Competency Profile Chart

<b>1. Describe Boom Truck Industry</b>	1.01 Explain Operators' Duties and Responsibilities	1.02 Explain Trainees' Duties and Responsibilities	1.03 Explain Employers' Duties and Responsibilities	1.04 Describe the Boom Truck Industry	1.05 Identify types of boom trucks and their applications	1.06 Describe industry specific hoisting and transport applications
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<b>2. Uses Communication Skills</b>	2.01 Acts professionally	2.02 Speaks and listens effectively	2.03 Uses documentation	2.04 Communicates using signals	2.05 Uses electronic communication equipment	
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<b>3. Interprets Applicable Legislation &amp; Policies</b>	3.01 Knowledge of regulatory bodies related to boom cranes and where to locate detailed information					
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<b>4. Works Safely</b>	4.01 Uses PPE					
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<b>5. Complies with Site Emergency Plan</b>	5.01 Prepares for emergencies	5.02 Responds to emergencies				
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<b>6. Describes Equipment &amp; Attachments</b>	6.01 Describes types and sizes of boom trucks	6.02 Describes major components and functions	6.03 Describes common attachments and purposes			
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<b>7. Basic Trade Math</b>	7.01 Perform basic load calculations using accepted industry formulas					
<b>8. Rigging &amp; Equipment</b>	8.01 Describe construction, types and functions of wire rope	8.02 Identify grades of chain	8.03 Identify and demonstrate use of rigging hardware and tools	8.04 Demonstrate proper use of slings	8.05 Identify accessories and interpret related regulations	8.06 Describe types and function of synthetic slings
	8.07 Inspect riggings and identify criteria for taking out of service	8.08 Calculate safe working loads for slings	8.09 Interpret and describe rope lay	8.10 Interpret sizes, grades and classification group of wire rope	8.11 Demonstrate advanced rigging techniques	
<b>9. Performs Pre-Operational Inspection &amp; Arranges Service with Engine/Power Off</b>	9.01 Inspects and arranges service lubrication systems	9.02 Inspects and arranges services electrical service system	9.03 Inspects and arranges services hydraulic system	9.04 Inspects and arranges services cooling system	9.05 Inspects and arranges services air intake system	9.06 Inspects and arranges services suspension system
	9.07 Inspects and arranges services drive train	9.08 Inspects load bearing structure and arranges service	9.09 Inspects and arranges services operator station	9.10 Inspects and arranges services fuel system	9.11 Inspects and arranges services carrier braking	9.12 Inspects and arranges services boom components
	9.13 Inspects and arranges services hoisting system	9.14 Inspects and arranges services stabilizing system	9.15 Inspects and arranges services attachments	9.16 Inspects safety equipment and arranges service	9.17 Describes tools and supplies associated with boom trucks	

<b>10. Performs Pre-Operational Inspection &amp; Daily Service with Engine/Power Off</b>	10.01 Starts and warms up engine	10.02 Cycles equipment functions				
<b>11. Complies with Scheduled Maintenance Requirements</b>	11.01 Arranges for or performs schedules maintenance	11.02 Knowledge of CSA/ASME & WCB inspection requirements				
<b>12. Plans Work Procedures</b>	12.01 Assesses Site Hazards	12.02 Discusses environmental concerns with site personnel	12.03 Reviews job specifications and safety with site personnel	12.04 Assesses load	12.05 Plans tasks	12.06 Plans and confirms travel route
	12.07 Determines best set-up location on site	12.08 Determines work procedures	12.09 Determines procedures for work around electrical hazards			
<b>13. Load Chart Reading</b>	13.01 Interpret load charts	13.02 Explain difference between gross and capacity versus net capacity	13.03 Explain difference between gross load versus net load	13.04 Determine % of capacity load from chart	13.05 Determine capacity limited by structural or stability	13.06 Calculate main boom capacities (attachment)
	13.07 Calculate boom extension capacities	13.08 Identify and determine jib capacities	13.09 Describe crane factors influencing capacity	13.10 Describe site factors that influence capacity and safe operation	13.11 Describe principles of leverage	13.12 Determine boom angles

	13.13 Determine boom lengths	13.14 Interpret range diagrams	13.15 Determine load radius	13.16 Identify and calculate load hoist lines		
<b>14. Operates Boom Truck</b>	14.01 Complies with safety requirements	14.02 Sets up equipment	14.03 Installs attachments	14.04 Performs hoisting operations	14.05 Performs specialty lifts	14.06 Monitors activities on site
	14.07 Monitors equipment performance	14.08 Troubleshoots equipment performance	14.09 Optimises equipment capabilities	14.10 Responds to weather and site conditions		
<b>15. Follows Shut Down Procedures</b>	15.01 Parks equipment in appropriate location	15.02 Shuts down and secures equipment	15.03 Performs housekeeping tasks	15.04 Conducts post operational inspection		

