

Physical Demands Analysis

Heavy Equipment Operator - Rock Truck

Prepared for: Alberta Construction Association

Job Title:	Heavy Equipment	Assessment	Burnco	Data Collection	November 2, 2020
	Operator – Rock Truck	Location:		Date:	

Completed By:	Ryan Pauls	Submitted on:	April 6, 2021

Disclaimer:	The Physical Demands noted in this report may vary depending on company and location. Please					
	contact the company directly to confirm this physical demands analysis is an accurate					
	representation of the specific job title for the specific location.					

Work	Shift Duration: 12 hours/day, 5 days/week; may vary			
Schedule:	Break Schedule: Total of 1 hour break per day			
	Shift Rotation: Not applicable			
	On call is required: No			
	Overtime required: No; but may be available			
Education /	Education required: No formal education, on job training			
Experience:	Hours required for position:			
	Tickets that may be required (not limited to): Fall protection, H2S Alive, Wildlife awareness,			
	Ground Disturbance, Elevated Work Platform (EWP) machinery use, Confined Space, First Aid,			
	WHMIS, Construction Safety Training Systems (CSTS) and Basic Safety Orientation (BSO).			

Labour	
Labour	
Provider:	
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Job	As a rock truck operator, the worker is required to complete the following tasks:					
Overview:	% of shift	Job Task	Task Description			
	1-5%	Equipment Check	 Equipment walk around to identify any obvious issues (tires, leaks, fluid levls, etc). 			
	67-100%	Truck Operation	 Involves driving rock truck to the gravel pit, getting loaded (approx. 10 min.) with material, then proceeding to the dumping area. 			
	6-33%	Maintenance/Groundwork	 Checking and changing screens. Changing rollers. Cone liner change (this would be a longer task however, is completed infrequently) 			
	1-5%	Truck Service	Refuelling, greasing, checking fluid levels, checking for leaks, etc.			



	Equipment/ Tools:	Grease gun
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Exposures /	Weather (cold, heat)
Environment:	Silica/dust
	Chemicals
	Vibration
	Noise
	Pinch points

Personal Protective	Hard hat
Equipment Required:	Steel toed boots
	Gloves
	Foam safety eyewear (fectoggle)
	Safety vest or high visibility stripes
	Long sleeves and pants
	Ear protection
Personal Protective	Faceshield
Equipment as Required:	Coveralls
	Respirator

NOC STRENGTH LEVEL KEY				
Strength Level Definition				
Limited (Lim)	Up to 5 kg (11 pounds)			
Light (L) 5 kg to 10 kg (11 – 22 pounds)				
Medium (M)	10 kg to 20 kg (22 – 44 pounds)			
Heavy (H) Greater than 20 kg (44 pounds plus)				

*Strength Level Key based on the National Occupational Classification

FREQUENCY KEY						
Frequency	% of Workday	Hours – Based on 8 hour Workday				
Not Required (N/R)	0%	0				
Rarely (R)	1-5%	<25 min/day				
Occasionally (O)	6 – 33%	25 min to 2 hours 40 min/day				
Frequently (F)	34 – 66%	2 hours 41 min to 5 hours 17 min/day				
Constantly (C)	67 – 100%	5 hours 18 min to 8 hours/day				

*Frequency Key based on WCB Alberta Recommendations



Job Demand	Freq	uency /	NOC St	rength I	Level	Details/ Measurements	
	N/R	R	0	F	С		
Material Handling:							
Floor to Waist Level Lifting		Н		L		Lifting tools, blocks, pallets, chains, etc.	
Knee to Waist Level Lifting		Н		L		Lifting tools, blocks, pallets, chains, etc.	
Waist to Waist Level			н	L		Screen changes.	
Lifting						Various tools.	
Waist to Chest Level Lifting		М				Lifting rollers.	
Waist to Shoulder Level Lifting		Μ				Lifting rollers.	
Waist to Overhead Level Lifting		Н				Belt maintenance.	
Front Carry				L		Carrying various equipment, rollers, tools, etc.	
Right / Left-handed Carry (Dominant Hand)				Lim		Shovels, rakes, tools.	
Shoulder Carry				Lim		Shovels, rakes.	
Static Pushing/Pulling (Force)	х						
Dynamic Pushing/Pulling (Force)				М		Raking material from under conveyer, pushing conveyer.	

Job Demand	Frequency					Details/Measurements		
	N/R	R	0	F	С			
Upper Extremity Work:	Upper Extremity Work:							
Hand Gripping					X	Steering wheel, hand controls in truck, tools for maintenance work.		
Pinch Gripping	Х							
Upper Extremity Coordination					X	Steering wheel, hand controls in truck, tools for maintenance work.		
Reaching Forward					x	Steering wheel.		
Overhead Shoulder Level Reaching		х				Changing radio, some maintenance tasks.		
Below Shoulder Level Reaching			Х			Some groundwork/maintenance tasks.		
Throwing	Х							



Job Demand		F	requenc	с у		Details/Measurements
	N/R	R	0	F	С	
Positional Work:						
Trunk Flexion (Bending)		Х				Groundwork/maintenance
Trunk Rotation (Twisting)		Х				As above
Kneeling		Х				Under truck inspection
Crawling	Х					
Crouching		Х				Under truck inspections, some groundwork
Squatting		Х				Under truck inspections, some groundwork
Neck Flexion					Х	Driving
Neck Extension			Х			Driving
Neck Rotation					Х	Driving

Job Demand	Frequency					Details/Measurements	
	N/R	R	0	F	С		
Static Work:							
Sitting					Х	While driving	
Static Standing		Х				Groundwork/maintenance	
Balancing		Х				Ladder into truck	

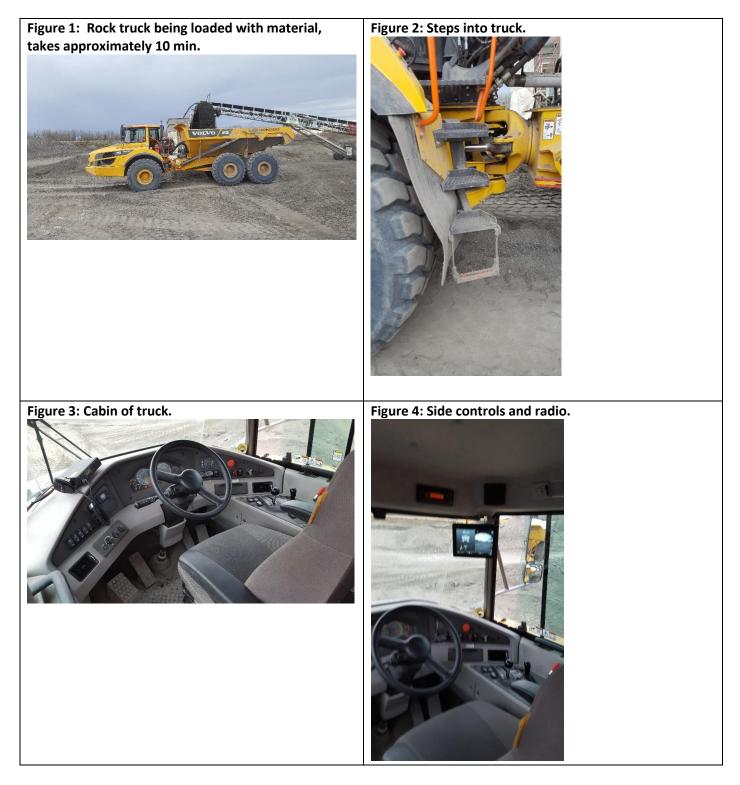
Job Demand	Frequency					Details/Measurements		
	N/R	R	0	F	С			
Ambulation:	Ambulation:							
Walking: Level Surfaces		Х				Groundwork/maintenance		
Walking: Uneven		Х				As above		
Surfaces								
Walking: Slopes		Х				As above		
Jumping	Х							
Running	Х							

Job Demand	Frequency					Details/Measurements	
	N/R	R	0	F	С		
Climbing:							
Stairs		Х				Groundwork/maintenance	
Ladder		Х				Ladder into truck	
Other							

Physical Demands Analysis Job Title: Heavy Equipment Operator – Rock Truck Date Prepared: December 3, 2020 Prepared for: Alberta Construction Association

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PHOTOS OF TASKS AND WORK ENVIRONMENT



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If you have any questions, and/or would like to discuss this assessment and report further, I can be reached at (780) 429-4761.

Sincerely,

Ryan Pauls MSc, CEP Clinical Exercise Physiologist



Validation Agreement

Job Title:	Heavy Equipment Operator – Rock Truck			
Data Collection Date:	November 2, 2020			

We the undersigned have reviewed the Physical Demands Analysis for this position and agree that the physical demands documented in this report are representative of the true demands of the tasks associated with the job title as assessed on the date listed above.

Completed by:	Ryan Pauls MSc, CEP Clinical Exercise Physiologist	Lifemark Clinician Name and Credentials
Approved by:		Management Representative
Approved by:		Worker Representative
Approved by:		Labour Provider Representative