

154 Meadowlark Health Centre 156 Street & 87 Avenue Edmonton, Alberta T5R 5W9 Tel (780) 429-4761 Fax (780) 425-4274 Toll Free 1-800-493-5446

Physical Demands Analysis

Commercial Carpenter – Foreman/Supervisor/Superintendent

Prepared for: Alberta Construction Association

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Job Title:	Commercial Carpenter – Forer Supervisor/ Superintendent	Man/ Location:	t Edmonton, AB	Data Collection Date:	September 23, 2020					
Completed B	y: Joanna Ellings	on, BKin	Submitted on:	April 6, 2021						
Disclaimer: The Physical Demands noted in this report may vary depending on company and location contact the company directly to confirm this physical demands analysis is an a representation of the specific job title for the specific location.										
Work Schedule:	Shift Duration: 5 days/week, 10-11 hours/day Break Schedule: Total of 1 hour break per day / 2-15 minute coffee breaks, 1-30 minute lunch break Shift Rotation: Dependent on job; days vs. nights On call is required: No / Yes – 24 hours per day for site security; 1 week on, 3 weeks off Overtime required: Yes; dependent on superintendent scheduling and project progress.									
Education / Experience: Education required: Supervisory mentorship and training, leadership courses program and 1,560 hours of on the job training per year. Hours required for position: A minimum of 6,240 hours of on the job training is completed the Apprenticeship Carpenter program. Tickets that may be required (not limited to): Fall protection, Ground Disturbance, Elevel Platform (EWP), First Aid, WHMIS, Construction Safety Training Systems (CSTS) and Borientation (BSO).										
Labour Provider:										
Job Overview	the Carpenter	As a Finishing Carpenter and Foreman/Supervisor/Superintendent, the worker is required to lead the Carpenters on site, complete office and paperwork as required and participate in on site carpentry work as required.								
	% of shift Up to 20%	Office planning	' '							

changes for the week as required.

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		•	Changes made to project blue prints as needed.
		•	Scheduling for his team and coordinating with other trades.
2%	Tailgate talk	•	Providing the Carpenters' plans for the day including
			progress on site thus far and from previous day, plan for
			remaining projects required and updates on any changes
			required for remaining projects.
		•	Discuss any safety concerns/hazards and updates related to
			the day's work.
		•	Hazard assessment discussion and where Carpenters will
			be working for the day.
Up to 8%	Sub trade	•	Provide update to coordinating trades on site regarding
	meeting		progress, delays and any updates that will affect the project
			timelines.
		•	Can be completed through a formal meeting or throughout
			site.
Up to 20%	Assisting team	•	Completing carpentry work when the team is behind, one
	when needed		of the crew members is not there or the team requires
			further assistance/expertise.
		•	Operating skid steer, forklift, mini excavator, scissor/boom
11 . 200/			lift as needed.
Up to 20%	Various	•	Dependent on the day, required to provide updates and
11.1.100/	meetings		problem solve as needed.
Up to 10%	Ordering	•	Ordering materials required to complete the Carpenters'
	materials		tasks and ensure the project timelines are being met
Ha to 200/	Ovality		efficiently.
Up to 20%	Quality	•	Reviewing site and tasks completed thus far to ensure the
	control		work matches plans/blue prints and quality meets Clark
			Builder's standards.

Equipment/
Tools:

- Skid steer
- Alternating forklift
- Mini excavator
- Scissor/Boom lift
- IPad
- Cell phone
- Jack hammer
- Tape measure
- Level (builders, laser)
- Chalk lines
- Chop saw (27 lbs.)
- Table saw
- Circular saw (13 lbs.)
- Dustless concrete grinder (37 lbs.)

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- Hand held drills (4 lbs.)
- Hammer drills (10 lbs.)
- Hammer
- Level
- Scissor lift
- Grinder (5 lbs.)
- Nail gun (3 lbs.) and case (13 lbs.)
- Extension cords (up to 15 lbs.)
- Tool belt (21 lbs.)
- Ladders
- Caulking guns
- Shovel (6 lbs.)
- Sledge hammer (10 lbs.)
- Leaf blower
- Concrete sealer (15 lbs. empty)
- 3 1/4 Plywood sheets 4 x 8 sheets (up to 66 lbs.)
- Pen/pencil
- Utility knife
- Tape measure
- Pliers
- Cat's paw (~1 lbs.)
- Wrench
- Flat bar (~1 lbs.)
- Flush cutter
- Concrete

Exposures / Environment:

- Noise exposure
- Vibration exposure
- Dim lighting
- Dust (concrete/wood) exposure
- Heat/Cold weather extremes
- Wind
- Icy/slippery surfaces
- Tripping hazards
- Working at heights
- Chemical fumes (caulking gun)
- Glue/adhesive fumes

Personal Protective Equipment Required:

- Hard hat
- Steel toed boots
- Gloves
- CSA safety glasses

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	Safety vest or high visibility stripes
	Long pants
	Kneeling pads
Personal Protective	Fall arrest protection
Equipment as Required:	Hearing protection
	Head lamps
	Dust masks
	Splash goggles (concrete dust)

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	Frequency / NOC Strength Level				.evel	Details/ Measurements				
	N/R	R	0	F	С					
Material Handling:										
Floor to Waist Level Lifting		Н				Lifting plywood (66 lbs.) and materials from floor onto workstation table, lifting various tools and equipment during set up and clean up, throughout site as required, lifting grinders (5 lbs.), chop saw (27 lbs.), circular saw (13 lbs.), nail gun and case (3/13 lbs.), etc. throughout shift during cutting, grinding, assembly, installation and demolition phases.				

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Knee to Waist Level	Н	Lifting plywood (66 lbs.) and materials onto
Lifting		workstation table, lifting various tools and
		equipment during set up and clean up,
		throughout site as required, lifting grinders (5
		lbs.), chop saw (27 lbs.), circular saw (13 lbs.),
		nail gun and case (3/13 lbs.), etc. throughout
		shift during cutting, grinding, assembly,
		installation and demolition phases.
Waist to Waist Level	Н	Lifting plywood (66 lbs.) and materials from
Lifting		truck to cart/workstation table, lifting various
		tools and equipment during set up and clean
		up, throughout site as required, lifting grinders
		(5 lbs.), chop saw (27 lbs.), circular saw (13
		lbs.), nail gun and case (3/13 lbs.), etc.
		throughout shift during cutting, grinding,
		assembly, installation and demolition phases.
Waist to Chest Level	H	Lifting plywood (66 lbs.) during
Lifting		installation/demolition phases, lifting various
		tools and equipment during set up and clean
		up, throughout site as required, lifting grinders
		(5 lbs.), various saws, nail gun and case (3/13
		lbs.), etc. throughout shift during cutting,
		grinding, assembly, installation and demolition
		phases at higher levels.
Waist to Shoulder Level	Н	Lifting plywood (66 lbs.) during
Lifting		installation/demolition phases, lifting various
		tools and equipment during set up and clean
		up, throughout site as required, lifting grinders
		(5 lbs.), various saws, nail gun and case (3/13
		lbs.), etc. throughout shift during cutting,
		grinding, assembly, installation and demolition
		phases at higher levels.
Waist to Overhead Level	Н	Lifting plywood (66 lbs.) during
Lifting		installation/demolition phases, lifting various
		tools and equipment during set up and clean
		up, throughout site as required, lifting grinders
		(5 lbs.), various saws, nail gun and case (3/13
		lbs.), etc. throughout shift during cutting,
		grinding, assembly, installation and demolition
Front Corm.	11	phases at higher levels.
Front Carry	H	Carrying plywood (66 lbs.), various materials
		and tools/equipment during set up and clean
		up, throughout site as required during all
		phases.

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Right / Left-handed Carry (Dominant Hand)	Н	Carrying various materials, tools and equipment including circular saw (13 lbs.), extension cords (up to 15 lbs.), grinders (5 lbs.), nail gun and case (13 lbs.) during set up and clean up, various phases (assembly, installation, demolition), carrying IPad around site.
Shoulder Carry	Н	Carrying 2 x 4 studs, extension cords (up to 15 lbs.), etc.
Static Pushing/Pulling (Force)	Н	Sheeting a wall, form work aligning, etc.
Dynamic Pushing/Pulling (Force)	Н	Pushing workstation table (43 lbs. of force), pushing vacuum, pushing plywood on cart (33 lbs.), pushing various materials through table saw (55 lbs. of force), pushing various equipment to cut/assemble/install materials (grinder, various saws, etc.), pushing hammer, flat bar and other hand tools, pushing wheelbarrow, pallet jacks. Shovelling snow/dirt/etc. in order to maintain site quality.

^{*}It is recommended that anything greater than 50 lbs., the worker use assistive equipment or use a 2 person lifting method.

Job Demand		F	requenc	су		Details/Measurements
	N/R	R	0	F	С	
Upper Extremity Work:						
Hand Gripping				X		Gripping power/hand tools, during material handling tasks (listed above), during cutting, grinding, assembly, installation and demolition phases, gripping IPad and cell phone as required, using computer/cell phone to order materials.
Pinch Gripping				Х		When completing backing tasks, using pen/pencil while completing measurements and adjusting blue prints, scheduling, various paperwork, picking up or using drill bits and nails, etc.
Upper Extremity Coordination					X	Using power/hand tools, during material handling tasks (listed above), during cutting, grinding, assembly, installation and demolition phases. Using IPad and cell phone throughout the day, completing various paperwork, using computer/cell phone to order materials.

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Reaching Forward		Х		Using table and circular saw, during assembly and installation tasks, retrieving materials including plywood, etc Using IPad and cell phone throughout the day, completing various paperwork.
Overhead Shoulder Level Reaching	Х			Reaching to place plywood down on floor/cart, setting up/cleaning higher levels of work station on site, working at/above shoulder height on ladders/scaffoldings during installation and demolition, etc.
Below Shoulder Level Reaching			Х	Using power/hand tools at workstation or during installation and demolition, setting up/cleaning lower levels of work station on site, working below shoulder during cutting, grinding, assembly, installation and demolition tasks. Using IPad and cell phone throughout the day, completing various paperwork.
Throwing	Х			Throwing rope when hoisting.

Job Demand		F	requenc	:y		Details/Measurements
	N/R	R	0	F	С	
Positional Work:						
Trunk Flexion (Bending)			X			Using equipment and tools (circular saw, hammer, level) on lower level surfaces, working on below waist levels, framing wall, during installation and demolition phases, set up and clean up as required, operating equipment, reviewing blue prints, during quality control reviews around site.
Trunk Rotation (Twisting)			Х			During assembly, installation and demolition phases, working in awkward and confined spaces, set up and clean up as required, during quality control reviews around site.
Kneeling			Х			Working on lower level work spaces during installation and demolition as required, installing lumber, working in awkward and confined spaces, during quality control reviews around site.
Crawling		х				Working on lower level work spaces during installation and demolition as required, installing lumber, working in awkward and confined spaces, during quality control reviews around site.

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Crouching	X	Working on lower level work spaces during installation and demolition as required, installing lumber, working in awkward and confined spaces, during quality control reviews around site.
Squatting	X	Working on lower level work spaces during installation and demolition as required, working in awkward spaces, during quality control reviews around site.
Neck Flexion	X	During cutting, grinding, assembly, installation and demolition phases, completing measurements, during set up and clean up, checking surroundings at work site, etc. Completing office planning, paperwork, using IPad and cell phone, operating equipment, during quality control reviews around site.
Neck Extension	X	During assembly, installation and demolition phases at higher levels, completing measurements at higher levels, during set up and clean up, checking surroundings at work site, etc. Operating equipment and during quality control reviews around site.
Neck Rotation	X	During cutting, grinding, assembly, installation and demolition phases, completing measurements, during set up and clean up, checking surroundings at work site, etc. Completing office planning, paperwork, using IPad and cell phone, operating equipment, during quality control reviews around site.

Job Demand		Frequency				Details/Measurements
	N/R	R	0	F	С	
Static Work:						
Sitting			Х			During breaks and meetings, working on ground level areas. Completing office planning, ordering materials and paperwork as required.
Static Standing				Х		While using equipment and tools, during cutting, grinding, assembly, installation and demolition phases, during task/site planning, various meetings throughout the day, completing quality control around site.

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Balancing			Х	Throughout site (indoors/outdoors) and while
				using ladders, entering and exiting
				equipment, during quality control around
				site.

Job Demand		F	requenc	у		Details/Measurements
	N/R	R	0	F	С	
Ambulation:						
Walking: Level Surfaces				Х		Walking throughout side (indoors/outdoors); frequency depending on progress of site (beginning vs. finishing stages). During quality control around site.
Walking: Uneven Surfaces			Х			Walking throughout side (indoors/outdoors); frequency depending on progress of site (beginning vs. finishing stages). During quality control around site.
Walking: Slopes		Х				Dependent on site (outdoors). During quality control around site.
Jumping	Х					Not required.
Running	Х					Not required.

Job Demand		Frequency				Details/Measurements
	N/R	R	0	F	С	
Climbing:						
Stairs			Х			Throughout site to access various levels, while assisting crew members, during quality control.
Ladder			Х			While working on higher level areas including ceiling and roof work, during quality control.
Other			Х			Accessing scissor/boom lift, mini excavator, forklift, , climbing garbage bins to dispose of garbage, scaffolds, etc.

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,	
 Joanna Ellingson, BKin	
Kinesiologist	

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SITE SPECIFIC JOB DEMAND ADDITIONS:

Job Demand	Frequency					Details/Measurements
	N/R	R	0	F	С	
Site Specific Job Dema	nd:					
Vibration			Х			While using power/hand tools during cutting, grinding, assembly, installation and demolition phases. Operating various equipment on site including scissor/boom lift, forklift, mini excavator, skid steer, etc.
Writing				Х		During measurements and completing Daily Pre-Task Hazard Analysis. Completing office planning and paperwork, making revisions to blue prints, etc.

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Validation Agreement

Job Title:	Commercial Carpenter – Foreman/Supervisor/Superintendent
Data Collection Date:	September 23, 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:	Joanna Ellingson, BKin	Lifemark Clinician Name and Credentials
Approved by:		Management Representative
Approved by:		Worker Representative
Approved by:		Labour Provider Representative