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Physical Demands Analysis

Edgebander

Prepared for:
 Alberta Construction Association

Job Title:	Edgebander	Assessment Location:	Calgary, AB	Data Collection Date:	November 24, 2020
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Completed By:	Terilyn Miranda, OT	Submitted on:	May 4, 2021
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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.
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Work Schedule:	<p>Shift Duration: 5 days/week, 9 hours/day; may vary depending on projects available</p> <p>Break Schedule: Total of 1 hour break per day (2 x 15 minute, 1 x 30 minute)</p> <p>Shift Rotation: Not applicable</p> <p>On call is required: No</p> <p>Overtime required: No; but may be available depending on project volume</p>
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Education / Experience:	<p>Education required: Not Applicable</p> <p>Hours required for position: N/A</p> <p>Tickets that may be required (not limited to): First Aid, WHMIS, Construction Safety Training Systems (CSTS) and Basic Safety Orientation (BSO).</p>
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Labour Provider:	N/A
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Job Overview:	As an Edgebander Operator the worker is required to use the machinery to apply edging material to finish the outer sides of the cabinets, doors, shelving, etc.		
	% of shift	Job Task	Task Description
	1 to 10%	Review project plan	<ul style="list-style-type: none"> Obtain paper plan associated with cut materials to be banded Determine appropriate banding to be used Communicate with co-workers to verify specifics as needed
	50 to 80%	Complete edgeband	<ul style="list-style-type: none"> Obtain appropriate edgebanding to be used; may require use of step ladder to retrieve rolls from higher shelving (shelving up to 10 feet) Load edgebanding onto machine; feed into machine and test to ensure it is in working order

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Date Prepared: December 8, 2020

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			<ul style="list-style-type: none"> Retrieve material to be banded, verify measurements, and adjust machine settings as needed Feed material into machine; follow material as needed along belt to ensure banded properly Retrieve banded material at end of belt; check all edges to ensure bands are secured and in place May need to remove bands with flat end pry to tool and re-band if not adhered appropriately If material is completed, put it on cart for retrieval by team member for next step of assembly
	1 to 25%	Clean and maintain the machinery	<ul style="list-style-type: none"> Ensure machine is powered off if manual clearing is required Use of air compressor hose to clean belt and machine as needed May require squatting and low level reach to view inside belt if there is a malfunction May require overhead reach to access venting tubes to shake out debris Use of shop broom or vacuum to clean floor surrounding machine as needed

Equipment/ Tools:	<ul style="list-style-type: none"> IMA Edgebander Air Compressor Hose Hand tools (i.e. screwdriver, wrench; ~1 lb.) Edgebanding rolls Transport cart Step Stool Shop vacuum and broom
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Exposures:	<ul style="list-style-type: none"> Vibration Wood shavings and dust Loud noises 	
Environment:	Workstation	Variable depending on task – shared workstations and large equipment usage within a large open warehouse
	Indoor/Outdoor	Majority indoors
	Temperatures	Controlled
	Floor Surface	Cement flooring in work area; tile/low pile carpeting in lobby; wooden stairs
	Lighting	Fluorescent overhead
	Noise	Loud environmental noise; various heavy machinery running at one time



		Hearing protection required with and around tool and heavy equipment use
	Fumes/Odours/Dust	Exposure to wood dust and debris Fumes from paint, stains, cleaners, adhesives and oils present within work areas
	Chemicals	Exposure to paint, stains, cleaners, adhesives and oils throughout work areas
	Vibration	With use of hand tools and heavy equipment

Personal Protective Equipment Required:	<ul style="list-style-type: none"> • Steel toed boots • Long pants • Hearing protection
Personal Protective Equipment as Required:	<ul style="list-style-type: none"> • Gloves • Eye protection

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					Details/ Measurements
	N/R	R	O	F	C	
Material Handling:						
Floor to Waist Level Lifting			Lim-L			-Retrieving/replacing rolls of banding from shelving (up to 5 lbs.) -Retrieving/replacing materials from transport carts/pallets (1 to 20 lbs.)
Knee to Waist Level Lifting			Lim-L			-Retrieving/replacing rolls of banding from shelving (up to 5 lbs.) -Retrieving/replacing materials from transport carts/pallets (1 to 20 lbs.)



Waist to Waist Level Lifting				L		-Handling materials to be banded to/from transport carts to banding belt (1 to 20 lbs.)
Waist to Chest Level Lifting			Lim-L			-Holding materials up to inspect prior to, or following, banding (1 to 20 lbs.) -Retrieve/replace rolls of banding to shelving (up to 5 lbs.)
Waist to Shoulder Level Lifting			Lim-L			-Retrieve/replace rolls of banding to upper shelves (up to 5 lbs.) -Holding materials up to inspect prior to, or following, banding (1 to 20 lbs.)
Waist to Overhead Level Lifting		Lim				-Retrieve/Replace rolls of banding to upper shelves (up to 5 lbs.)
Front Carry		L				-Carrying materials throughout site if transport cart not available (1 to 20 lbs.)
Right / Left-handed Carry (Dominant Hand)		Lim				-Carrying materials throughout site if transport cart not available (1 to 20 lbs.) -Carrying rolls of banding as needed (up to 5 lbs.)
Shoulder Carry	X					-None
Static Pushing/Pulling (Force)		Lim				-Assisting/stabilizing the material along the belt as it is being banded
Dynamic Pushing/Pulling (Force)		Lim				-Moving carts of material throughout site as needed (5.0 lbs.; force required variable depending on load)

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Upper Extremity Work:						
Hand Gripping				X		-Stabilizing materials as it is being banded -Prying/pulling banding off as needed -Manual handling of materials
Pinch Gripping		X				-Loading and feeding banding into machine -Prying/pulling banding off as needed -Removing debris as needed
Upper Extremity Coordination				X		-Manual handling of materials -Feeding the banding into the machine -Stabilizing the material as it is being banded
Reaching Forward			X			-Assisting the material through the bander -Clearing debris from machine -Loading banding into the machine
Overhead Shoulder Level Reaching		X				-Clearing the venting feed as needed



Below Shoulder Level Reaching		X				-Clearing debris from machine -Accessing belt for maintenance -Retrieving banding from lower level shelving
Throwing	X					-None

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Positional Work:						
Trunk Flexion (Bending)			X			-Loading banding -Holding/assisting material through machine as it is being banded -Retrieve banding or materials from lower level
Trunk Rotation (Twisting)			X			-If holding material while it is being banded -Retrieving/loading materials onto transport carts
Kneeling	X					-None
Crawling	X					-None
Crouching		X				-To assess lower level work when trouble shooting
Squatting		X				-To assess lower level work when trouble shooting
Neck Flexion				X		-When loading banding -Monitoring material as it is being banded -Inspecting material before/after banding
Neck Extension		X				-To view upper venting pipes as needed -Viewing upper shelving where bands are being stored -Viewing computer screen
Neck Rotation			X			-View environment as needed -Inspecting material before/after banding

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Static Work:						
Sitting		X				-On breaks as needed
Static Standing			X			-At computer when setting and reviewing plan -Loading banding
Balancing				X		-Throughout site -Monitoring and assisting material through edgebander



Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Ambulation:						
Walking: Level Surfaces				X		-Concrete flooring throughout -Anti-fatigue matting at computer station
Walking: Uneven Surfaces	X					-None
Walking: Slopes	X					-None
Jumping	X					-None
Running	X					-None

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Climbing:						
Stairs		X				-To reach second floor of site as needed
Ladder		X				-3-step stool to reach banding stored on higher shelves (up to 10 feet)
Other	X					-None

Sensory/Perception	Frequency					Details
	N/R	R	O	F	C	
Hear/Conversations				X		-Communicating with team members
Hear/Other			X			-Audible alarms, machinery in use, general awareness of surroundings
Vision/Far			X			-Viewing team members working in surroundings, monitoring machinery/materials being manipulated
Vision/Near					X	-Using machinery and hand tools, maneuvering materials, reading blue prints
Vision/Colour					X	-Viewing appropriate materials -Reviewing blueprints/plans
Vision/Depth					X	-Using machinery and hand tools, maneuvering materials
Perception/Spatial					X	-General awareness of surroundings and machinery in use, maneuvering large materials in space and with machinery use
Feeling					X	-Handling materials and machinery
Speech				X		-Communicating with team members -Following direction in emergency situations

PHOTOS OF TASKS AND WORK ENVIRONMENT

Figure 1: Setting computer to prepare for edgebanding

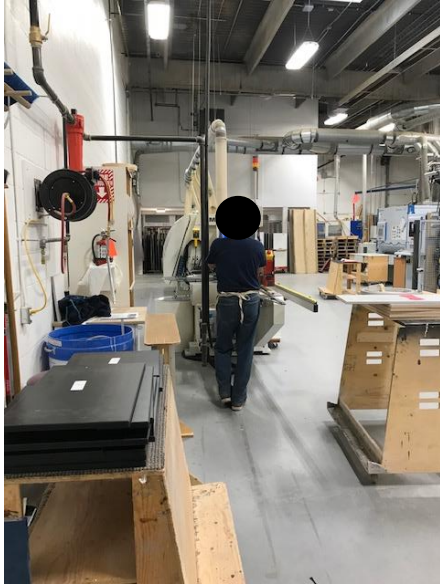


Figure 2: Monitoring material while running through edgebanding



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,



Terilyn Miranda, M.Sc.OT, B.H.Sc
Occupational Therapist



SITE SPECIFIC JOB DEMAND ADDITIONS:

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Site Specific Job Demand:						



Validation Agreement

Job Title:	Edgebander
Data Collection Date:	November 24, 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:	Terilyn Miranda, M.Sc.OT, B.H.Sc Occupational Therapist	Lifemark Clinician Name and Designation
Approved by:		Management Representative
Approved by:		Worker Representative
Approved by:		Labour Provider Representative