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Physical Demands Analysis

Steel Stud Framer

Prepared for:
Alberta Construction Association

Job Title:	Steel Stud Framer	**Assessment Location:**	Grande Prairie, AB	**Data Collection Date:**	December 7, 2020

Completed By:	Christina O'Connor, B. Sc. Kin	**Submitted on:**	July 29, 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 this specific location.

Work Schedule:	**Shift Duration:** 4 days/week, 10 hours/day; may vary **Break Schedule:** Total of 1 hour break per day/ extra ½ hour past 5:30pm **Shift Rotation:** This would be job-dependent; however, if working on commercial jobs, workers may be required to work at night to avoid working during business operation hours. **On call is required:** No. **Overtime required:** Yes, this would be job dependent.

Education / Experience:	**Education required:** N/A **Hours required for position:** N/A **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 Provider:	N/A

Job Overview: A Steel Stud Framer specializes in utilizing electric or hand tools to install wall systems, often working with materials involving steel frames. The primary job duties for this position involve sizing and cutting metal studs, and installing tracks in walls at various heights. A Steel Stud Framer would require knowledge and understanding reading blueprints.

% of shift	Job Task	Task Description
2%	Paperwork	A worker would be required to fill out their Field Level Hazard Assessment (FLHA), COVID screening paperwork, toolbox talks, and equipment inspection forms. A worker would be required to fill out multiple toolbox talks and field level hazard assessments if a job changes throughout the day.
5%	Clean Up / Job Prep	A worker would be required to prepare their job site by gathering all tools and equipment necessary to complete the tasks at hand, gathering all materials, ensuring proper PPE, and setting up any temporary containments.

			A worker would be required to clean up throughout their day to reduce any materials or equipment that could impact a worker's ability to complete a job. A worker would be responsible for cleaning up their tools and materials to ensure there are no safety hazards throughout their day.
	93%	Installation of steel studs	A worker would be required to measure, cut, and install various sizes of metal studs at waist level, below waist level, and above shoulder level. A worker would be required to utilize electric hand tools, power saws, knives, scaffolding, and ladders. Materials would be required to be measured and secured using a drill.

Equipment/ Tools:	• Tape measure • Lasers • Saws • Grinders • Drills • Scaffolding (Deck: 46 lbs, railings: 42 lbs) • Tool belt (15 lbs) • A bundle of steel studs (72 lbs) • Pneumatic track gun • Steel framing (8, 10, or 12 feet; 4 or 6 inches wide) • Knife • A pail of tools (50 lbs) • Clamps • Ladder (45 lbs) • Utility knife

Exposures / Environment:	Work can be inside or outside depending on the jobs required. A worker could be exposed to the following: • Noise • Rough Terrain • Tripping Hazards • Moving Equipment • Heights • Vibrations • Hot/Cold Temperatures • Dust

Personal Protective Equipment Required:	• Hard hat • Steel toed boots

	• Gloves • Foam safety eyewear (fectoggle) • Safety vest or high visibility stripes • Long sleeves and pants • Hearing 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			H			Could be required to lift the following from the ground level: • A variety of tools and equipment such as hand tools, saws, drills, knives, etc. • A bundle of studs (72 lbs) • Scaffolding deck (46 lbs) • Scaffolding railings (42 lbs) • A steel stud (7 lbs)
Knee to waist level lifting		H				Could be required when to lift the following from knee level: • A 12-foot ladder (45 lbs) • A pail of tools (50 lbs) • A bundle of studs (72 lbs) • Scaffolding deck (46 lbs) • Railing to scaffolding (42 lbs)

Waist to waist level lifting		H		L		Could be required when to lift the following at waist level: • A variety of tools and equipment • A steel stud • A bundle of studs • A ladder • Lights • Tool belt (15 lbs) • Hand tools
Waist to chest level lifting		H		Lim		Could be required to lift the following up to chest level: • Hand tools • A steel stud • A bundle of studs • A drill • Screws • Clamp
Waist to shoulder level lifting			Lim			Could be required to lift the following up to shoulder level: • A variety of tools and equipment • A steel stud • A ladder • Lights • Hand tools
Waist to overhead level lifting			Lim			Could be required to lift the following up to shoulder level: • A variety of tools and equipment • A steel stud • A ladder • Lights • Hand tools
Front carry			H			Required when carrying the following: • A variety of tools and equipment • A steel stud • A bundle of studs • A ladder • Lights • Hand tools

Right / left-handed carry (dominant hand)		H	Lim			Required when to carry the following: • Basic hand tools • Shovel • Steel studs • Drill • Ladder
Shoulder carry		H				Required when to shoulder carry the following: • A bundle of studs
Static Pushing/Pulling (Force)				L		Required when to push or pull: • Operating a saw • Operating a drill • Cutting studs • Securing framing with screws
Dynamic Pushing/Pulling (Force)		M				Required when to push or pull: • Moving scaffolding • Sweeping • Opening and closing doors • Moving bundles of studs

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Upper Extremity Work:						
Hand Gripping					X	Required when using hand tools such as snipes, operating drills, handling steel studs, gripping drills.
Pinch Gripping				X		Required when handling screws, nails, completing paperwork, operation of hand tools, operation of power hand tools, etc.
Upper Extremity Coordination					X	Required when cutting steel, using a drill, operating saws, installing studs, completing paperwork, handling tools and equipment, moving ladders and scaffolding, clean up, site prep, etc.
Reaching Forward				X		Required when cutting steel, using a drill, operating saws, installing studs, completing paperwork, handling tools and equipment, moving ladders and scaffolding, clean up, site prep, etc.
Overhead Shoulder Level Reaching				X		Required when installing steel studs, operation of drill, measuring, securing studs, etc.
Below Shoulder Level Reaching				X		Required when cutting materials, installing steel studs, or measurement/cutting of materials using hand tools and equipment, etc.

Throwing		X				Required when throwing garbage into a dumpster.

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Positional Work:						
Trunk Flexion (Bending)			X			Required when completing work below waist, grabbing materials, cutting materials, measurement of materials, site clean up, site prep, etc.
Trunk Rotation (Twisting)			X			Required when grabbing materials, working on ladders, working on scaffolding, gathering materials, and using equipment and tools, etc
Kneeling			X			Required when completing work in lower level positions or working on scaffolding when working at higher level positions.
Crawling	X					N/A
Crouching			X			Required when completing work in lower level positions or working on scaffolding when working at higher level positions.
Squatting			X			Required when completing work in lower level positions or working on scaffolding when working at higher level positions.
Neck Flexion			X			Required when installing steel studs, cutting materials, grabbing tools and equipment, site prep, site clean up, etc.
Neck Extension				X		Required when working above head to install steel studs, measurement of materials, using lasers or hand tools, etc.
Neck Rotation				X		Required when installing steel studs, ensuring a safe working environment, measuring materials, etc

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Static Work:						
Sitting			X			Required when taking breaks and completing work at low levels.
Static Standing			X			Required when cutting materials, standing on scaffolding to complete work, measuring materials, installing framing, etc.
Balancing			X			Required when working on scaffolding or ladders.

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Ambulation:						
Walking: Level Surfaces				X		Required on most jobsites; however, this is job-dependent.
Walking: Uneven Surfaces				X		This could be required up to a frequent basis; however, this is site-dependent.
Walking: Slopes		X				This may be required on some sites; however, this is site-dependent.
Jumping	X					N/A
Running	X					N/A

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Climbing:						
Stairs		X				This is job dependent.
Ladder			X			Ladder climbing would be required when installing steel framing above head or at high levels. This is job dependent.
Other – Scaffolding			X			Scaffolding would be required when installing steel framing above head or at high levels. This is job dependent.

PHOTOS OF TASKS AND WORK ENVIRONMENT

Figure 1: Bundles of steel studs that workers would pull materials from while working.

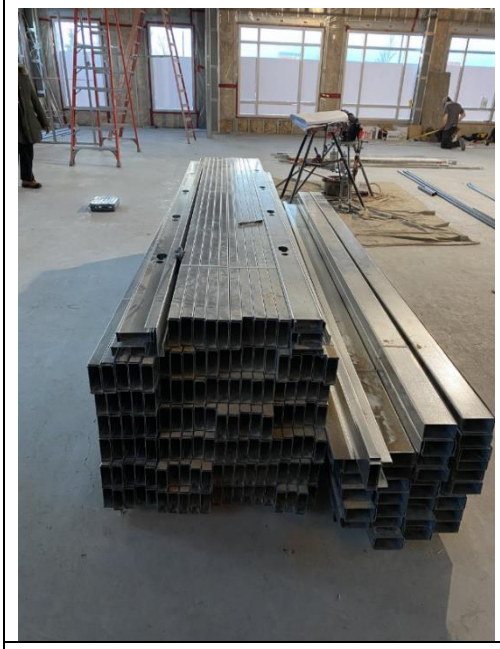

Figure 2: A worker would be required to ensure all studs are level and appropriate heights and widths before installing and securing steel studs based off of blueprints.

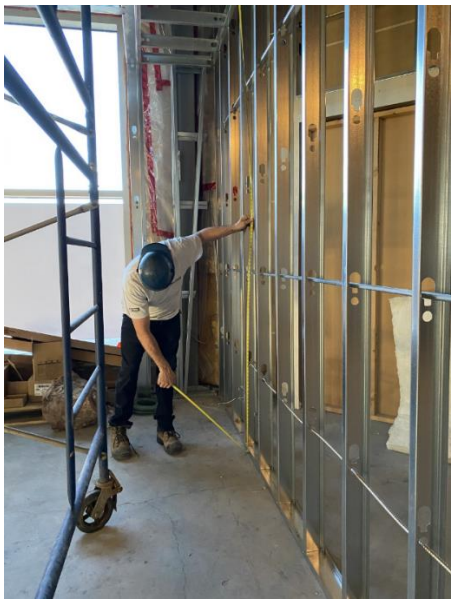

Figure 3: A worker would use different tools, such as a circular saw, to cut materials to appropriate lengths required according to the blueprints.

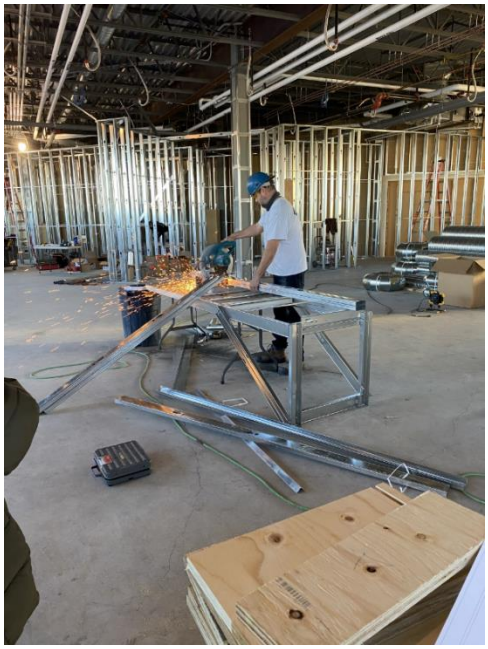

Figure 4: A worker would be required to work on scaffolding or ladders to complete work at heights.

If you have any questions, and/or would like to discuss this assessment and report further, I can be reached at (780) 532-7077.

Sincerely,

Christina O'Connor, B. Sc. Kin

Validation Agreement

Job Title:	Steel Stud Framer
Data Collection Date:	December 7, 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:	Christina O'Connor, B.Sc.Kin	Lifemark Clinician Information and Designation
Approved by:		Management Representative
Approved by:		Worker Representative
Approved by:		Labour Provider Representative