PHYSICAL DEMANDS ANALYSIS (EXAMPLE) COMMERCIAL IRONWORKER



JOB DESCRIPTION

TASK#	TASK DESCRIPTION	% OF SHIFT
1	Prepare work area and retrieve materials.	20%
2	Prepare and install brick angles or create repair work. Transport equipment or scaffolding.	75%
3	Clean up.	5%

The physical demands may vary depending on company and location.

Confirm this physical demands analysis is an accurate representation of the specific job.

ITEMS HANDLED

- Hammer (2 lbs.)
- Tape measure (2 lbs.)
- Level (2 lbs.)
- Impact gun (21 lbs.)

- Grinder (6 lbs.)
- Welding machine (13 lbs.)
- Cables (15 lbs.)
- Welding rods (10 lbs.)
- Brick angle (~100 lbs.)
- Bessey clamps (~ 4lbs.)
- Zoom boom
- Swing stage

PERSONAL PROTECTIVE EQUIPMENT

- · Dust mask
- Knee pads
- Gloves
- Work at height protection
- · Safety glasses, work boots, hard hat, and high-visibility vest

ENVIRONMENTAL EXPOSURE

- Outdoor elements (cold, heat, wind, rain, snow, etc.)
- · Dust fumes
- · Zinc exposure
- · UV light exposure

PHYSICAL DEMANDS ANALYSIS (EXAMPLE)

PHYSICAL DEMANDS ANALYSIS (EXAMPLE) **COMMERCIAL IRONWORKER**



JOB TITLE COMMERCIAL IRONWORKER **LENGTH OF SHIFT (HRS)** 10 **JOB DESCRIPTION**

As an Ironworker the worker is required to assemble and install walls, railings, supports and metal framing to new or preexisting buildings.

PHYSICAL JOB DEMANDS - Grade using a scale of 0 - 4								
0 = NOT REQUIRED	1 = SELDOM RI	EQUIRED: < 5%	2 = MINOR REQUIREMENT: 5-33%					
-		nutes per day or daily	30 minutes up to 3.5 hours per day or 1 repetition every 30 minutes					
3 = OCCASIONAL REQUIREMEN	NT: 34-66%	4 = FREQUENT REQUIREMENT: 67-100%						
3.5 hours up to 6.5 hours pe 1 repetition every 2 min	•	6.5 hours per day up to shift length or 1 repetition every 30 seconds						

INSTRUCTIONS: Place an X under number 0,1,2,3 or 4 to identify the frequency of each body demand or exposure.

PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED	
WHOLE BODY DEMANDS							
SITTING	X					-	
SITTING WITH VIBRATION/JARRING	X					-	
DRIVING	X					-	
STANDING				X		During preparation and installation, repair phases of brick angle, while on swing stage.	
RUNNING						-	
WALKING							
LEVEL			X			Walking site (indoors).	
UNEVEN GROUND				X		Walking site (outdoors)	
SLOPES / RAMPS	X					-	
CLIMBING							
REGULAR STAIRS			X			To access various floors throughout site.	
STEEP STAIRS	X					-	
LADDERS			X			TTo access higher level material (brick angle, leave, etc.) on ground level.	
OTHER			X			Climbing onto zoom boom, swing stage.	
LOW LEVEL WORK							
KNEELING			X			Working with lower-level equipment including welding machine set up, lower-level placed brick angle, work area preparation and clean up.	
SQUATTING	X					-	
CRAWLING		X				During lower-level installation (ground level).	

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PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED	
SPECIFIC BODY DEMANDS							
NECK MOVEMENTS							
BENDING							
SUSTAINED				X		Checking surroundings on site, during preparation, installation, repair phases, work area preparation and clean up.	
REPETITIVE	X					-	
TWISTING							
SUSTAINED	X					-	
REPETITIVE		X				Checking surroundings on site, during preparation, installation, repair phases, work area preparation and clean up.	
TRUNK MOVEMENTS							
BENDING							
SUSTAINED	X					-	
REPETITIVE			X			Attaching cable to welding machine, cleaning cables, during installation of brick angle, work area preparation and clean up.	
TWISTING							
SUSTAINED	X					-	
REPETITIVE		X				During installation of brick angle, adjusting brick angle and ensuring brick angle is level, work area preparation & clean up.	
SHOULDER MOVEMENTS							
OVERHEAD		X				During work area preparation and clean up, lifting brick angle (when unable to use zoom boom or assistive equipment).	
FORWARD REACHING				X		Setting up and while using welding machine, during installation of brick angles.	
GRIPPING DEMANDS							
DOMINANT HAND							
REPETITIVE	Х					-	
CONTINUOUS					X	Gripping brick angles, Bessey clamps, various hand and power tools, welding machine/rods, stands, scaffolding, etc.	
NON-DOMINANT HAND							
REPETITIVE	X					-	
CONTINUOUS				X		Gripping brick angles, Bessey clamps, various hand and power tools, welding machine/rods, stands, scaffolding, etc.	
FINGER DEXTERITY			х			Adjusting brick layer during installation on building, operating swing stage.	

PHYSICAL DEMANDS ANALYSIS (EXAMPLE) COMMERCIAL IRONWORKER



PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED		
MANUAL HANDLING DEMANDS	MANUAL HANDLING DEMANDS							
LIFTING								
LIGHT (MAX 20 LB / 9 KG)				x		Various hand and power tools (impact gun-21 lbs., welding machine-13 lbs., hammer, tape measure-2 lbs., level 2 lbs., etc.), cables (15 lbs.), fire extinguishers, during work area preparation and clean up.		
MEDIUM (MAX 50 LB / 22.5 KG)		X				Materials including brick angle (up to 100 lbs.) and scaffolding		
HEAVY (MAX 100 LB / 45 KG)	X					-		
VERY HEAVY (OVER 100 LB / 45 KG)	X					-		
CARRYING								
LIGHT (MAX 20 LB / 9 KG)			Х			Welding machine-13 lbs., hammer, tape measure-2 lbs., level 2 lbs., etc.).		
MEDIUM (MAX 50 LB / 22.5 KG)			X			Buckets of material (up to 50 lbs.), various hand, and power tools (impact gun-21 lb.)		
HEAVY (MAX 100 LB / 45 KG)			X			Materials including brick angle (up to 100 lbs.)		
VERY HEAVY (OVER 100 LB / 45 KG)	X					-		
MOBILE PUSHING								
LIGHT (MAX 20 LB / 9 KG)	X					-		
MEDIUM (MAX 50 LB / 22.5 KG)	X					-		
HEAVY (MAX 100 LB / 45 KG)			X			Moving stands throughout site, adjusting brick angle (push: 106.0 lbs., pull: 104.5 lbs.),		
VERY HEAVY (OVER 100 LB / 45 KG)	Х					-		
MOBILE PULLING								
LIGHT (MAX 20 LB / 9 KG)	X					-		
MEDIUM (MAX 50 LB / 22.5 KG)	X					-		
HEAVY (MAX 100 LB / 45 KG)			X			Moving stands throughout site, adjusting brick angle (push: 106.0 lbs., pull: 104.5 lbs.)		
VERY HEAVY (OVER 100 LB / 45 KG)	Х					-		
STATIC PUSHING/PULLING								
LIGHT (MAX 20 LB / 9 KG)	X					-		
MEDIUM (MAX 50 LB / 22.5 KG)				X		Adjusting Bessey clamps on brick angle to assist in moving, adjustments while using scaffolding.		
HEAVY (MAX 100 LB / 45 KG)	X					-		
VERY HEAVY (OVER 100 LB / 45 KG)	X					-		