PHYSICAL DEMANDS ANALYSIS (EXAMPLE) RESIDENTIAL AIR CONDITIONING INSTALLER



JOB DESCRIPTION

TASK#	TASK DESCRIPTION	% OF SHIFT				
1	Drive to site, unload, and plan areas on site for install	10%				
2	Install brackets, air conditioning unit, and power to the unit					
3	Clean up and loading	10%				

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

- Shovel (4 lbs.)
- Brackets (up to 8 lbs.)
- Refrigerant
- Air conditioning unit (up to 5 tonnes)
- · Sheet metal pipe
- Vacuum pump (33 lbs.)
- Copper pipes (15 lbs.)
- Drills right angle, Sozo, impact, hammer (up to 29 lbs.)
- Reciprocal saw (29 lbs.)
- Circular/skill saw (up to 29 lbs.)
- Hand tools (up to 16 lbs.)
- Acetylene compressed gas (30 lbs.)
- Nitrogen tank (35 lbs.)
- 6-foot ladder (19 lbs.)
- Tool belt (16 lbs.)
- Milwaukee electrical tool kit (23 lbs.)

PERSONAL PROTECTIVE EQUIPMENT

- · Work Boots
- · Safety glasses
- Gloves

ENVIRONMENTAL EXPOSURE

Works inside or outside near buildings. Exposed to restricted spaces, refrigerant, hot work, and nitrogen under compression.

PHYSICAL DEMANDS ANALYSIS (EXAMPLE)

PHYSICAL DEMANDS ANALYSIS (EXAMPLE) RESIDENTIAL AIR CONDITIONING INSTALLER



 JOB TITLE
 RESIDENTIAL AIR CONDITIONING INSTALLER
 LENGTH OF SHIFT (HRS)
 8

 JOB DESCRIPTION

An Air conditioning installer installs air conditioning units.

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 minu	•	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			Driving to and from site.	
STANDING				X		Installation of brackets, air conditioning units, reviewing site, hazard assessment.	
RUNNING	X					-	
WALKING							
LEVEL			X			Throughout the site (interior).	
UNEVEN GROUND			X			Throughout the site (exterior).	
SLOPES / RAMPS			X			Exterior of site.	
CLIMBING							
REGULAR STAIRS		X				Climbing stairs throughout site to access various levels.	
STEEP STAIRS	X					-	
LADDERS		X				Accessing ceiling/higher levels to install.	
OTHER	X					-	
LOW LEVEL WORK							
KNEELING				X		During installation of bracket, measuring air conditioning unit, installation of power to unit.	
SQUATTING				X		During installation of bracket, measuring air conditioning unit, installation of power to unit.	
CRAWLING		X				In crawl spaces (dependent on site).	

PHYSICAL DEMANDS ANALYSIS (EXAMPLE) RESIDENTIAL AIR CONDITIONING INSTALLER



PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED		
SPECIFIC BODY DEMANDS								
NECK MOVEMENTS								
BENDING								
SUSTAINED				x		During installation of bracket, air conditioning unit, power to unit, manipulating copper pipes, checking surroundings, loading, and unloading on site, hazard assessment. Installation of power to unit, hazard assessment.		
REPETITIVE	X					-		
TWISTING				1	ı			
SUSTAINED	X					-		
REPETITIVE				X		Installation of copper pipe, power to unit, checking surroundings, loading, and unloading on site, hazard assessment.		
TRUNK MOVEMENTS								
BENDING								
SUSTAINED				X		Accessing equipment/tools and materials from site, installation of brackets, shovelling for bracket placement, measuring placement on air conditioning unit, installation of power to unit.		
REPETITIVE	X					-		
TWISTING								
SUSTAINED		X				Accessing bracket during installation, installation of air conditioning unit (placing onto bracket), installation of power to unit.		
REPETITIVE	X					-		
SHOULDER MOVEMENTS								
OVERHEAD			X			During installation of copper pipes, accessing air conditioning unit panel (while kneeling), attaching wires from air conditioning unit.		
FORWARD REACHING				X		During installation of brackets, while using hand and power tools, installing copper pipe, electrical cords, lifting and retrieving materials/air conditioning unit from truck, loading, and unloading on site, site clean up, etc.		
GRIPPING DEMANDS								
DOMINANT HAND								
REPETITIVE	Х					-		
CONTINUOUS					X	During installation of brackets, while using hand and power tools, lifting and carrying materials/air conditioning unit, loading, and unloading on site, site clean up, etc.		
NON-DOMINANT HAND								
REPETITIVE	X					-		
CONTINUOUS				X		During installation of brackets, while using hand and power tools, lifting and carrying materials/air conditioning unit, loading, and unloading on site, site clean up, etc.		
FINGER DEXTERITY			Х			Pinching copper wire during installation, installing brackets, material set up, etc.		

PHYSICAL DEMANDS ANALYSIS (EXAMPLE) RESIDENTIAL AIR CONDITIONING INSTALLER



PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED	
MANUAL HANDLING DEMANDS							
LIFTING							
LIGHT (MAX 20 LB / 9 KG)				X		Lifting brackets (8 lb.), copper lines (15 lb.), ladder (20 lb.), shovel (4 lb.), hand tools (16 lbs.), etc.	
MEDIUM (MAX 50 LB / 22.5 KG)			X			Drills (up to 29 lbs.), saws (up to 29 lbs.), acetylene compressed gas (30 lbs.), nitrogen tank (35 lbs.), vacuum pump (33 lbs.), etc. Lifting ducts (30 lbs.) to install, running the line, lifting panel of air conditioning unit.	
HEAVY (MAX 100 LB / 45 KG)	X					-	
VERY HEAVY (OVER 100 LB / 45 KG)		X				Air conditioning unit (up to 235 lbs. per worker x 2).	
CARRYING							
LIGHT (MAX 20 LB / 9 KG)		Х				Carrying copper pipes (15 lbs.) and tool belt (16 lb.) throughout the site.	
MEDIUM (MAX 50 LB / 22.5 KG)		X				Power and hand tools (up to 29 lbs.), drills and saws (up to 29 lbs.), ladder (20 lbs.), vacuum pump (33 lbs.), etc. during loading and unloading, throughout the site.	
HEAVY (MAX 100 LB / 45 KG)	X					-	
VERY HEAVY (OVER 100 LB / 45 KG)		X				Air conditioning unit (up to 235 lb. per worker x 2).	
MOBILE PUSHING							
LIGHT (MAX 20 LB / 9 KG)	X					-	
MEDIUM (MAX 50 LB / 22.5 KG)	X					-	
HEAVY (MAX 100 LB / 45 KG)	X					-	
VERY HEAVY (OVER 100 LB / 45 KG)	X					-	
MOBILE PULLING							
LIGHT (MAX 20 LB / 9 KG)	X					-	
MEDIUM (MAX 50 LB / 22.5 KG)	X					-	
HEAVY (MAX 100 LB / 45 KG)	X					-	
VERY HEAVY (OVER 100 LB / 45 KG)	X					-	
STATIC PUSHING/PULLING							
LIGHT (MAX 20 LB / 9 KG)	X					-	
MEDIUM (MAX 50 LB / 22.5 KG)	X					-	
HEAVY (MAX 100 LB / 45 KG)		X				Pushing/pulling air conditioning unit onto brackets and out of truck, shovelling, using hand tools (hammer, wrench), pushing copper wire, etc.	
VERY HEAVY (OVER 100 LB / 45 KG)	X					-	