

PHYSICAL DEMANDS ANALYSIS (EXAMPLE)

RESIDENTIAL GAS FITTER

JOB DESCRIPTION

TASK #	TASK DESCRIPTION	% OF SHIFT
1	Load materials	10%
2	Drive to site and unload	10%
3	Gas Fitting - completing measurements, threading, wrenching, and painting	65%
4	Clean up and loading	10%
5	Drive back to shop	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

- Pipe wrench (11 lbs.) – various sizes
- Tape measure
- Level
- Thread machine (80 lbs.)
- Thread machine tools (up to 7 lbs.)
- Thread machine bucket including shavings, tools, etc. (50 lbs.)
- Thread sealant
- Pipe – 4" 20-foot pipe (34 lbs.)
- Impact drill (2 lbs.)
- Paint/paint brush (1 lbs.)
- Pipe stand (19 lbs.)
- Ladder (24 lbs.)
- Roof top blocks (up to 7 lbs.)
- Lift to access roof

PERSONAL PROTECTIVE EQUIPMENT

- Work Boots
- Safety glasses
- Gloves

ENVIRONMENTAL EXPOSURE

Works inside or outside near buildings. Exposed to restricted spaces or wet, damp areas, uneven terrain and fumes from paint, sealant, or natural gas.

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JOB TITLE	RESIDENTIAL GAS FITTER					LENGTH OF SHIFT (HRS)	8
JOB DESCRIPTION							
A gas fitter is required to complete installation and maintenance on gas lines.							
PHYSICAL JOB DEMANDS - Grade using a scale of 0 - 4							
0 = NOT REQUIRED	1 = SELDOM REQUIRED: < 5%				2 = MINOR REQUIREMENT: 5-33%		
-	Less than 30 minutes per day or not daily				30 minutes up to 3.5 hours per day or 1 repetition every 30 minutes		
3 = OCCASIONAL REQUIREMENT: 34-66%					4 = FREQUENT REQUIREMENT: 67-100%		
3.5 hours up to 6.5 hours per day or 1 repetition every 2 minutes					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		Driving to and from site, during breaks.	
SITTING WITH VIBRATION/JARRING	X					-	
DRIVING				X		Driving to and from site.	
STANDING				X		Using threading machine, installing pipe while using ladder (ceiling). Frequency depending on site.	
RUNNING	X					-	
WALKING							
LEVEL				X		On site (interior and exterior). Frequency depending on site.	
UNEVEN GROUND		X				Exterior of site.	
SLOPES / RAMPS			X			On roof, throughout site. Frequency depending on site.	
CLIMBING							
REGULAR STAIRS		X				To access roof.	
STEEP STAIRS	X					-	
LADDERS			X			To access ceiling on site or access scissor lift. Frequency depending on site.	
OTHER	X					-	
LOW LEVEL WORK							
KNEELING			X			Installing, wrenching, and painting pipe. Frequency depending on site.	
SQUATTING			X			To access gas pipes, installing, wrenching, and painting pipe. Frequency depending on site. Accessing smaller rooms on site.	
CRAWLING		X				Installing, wrenching, and painting pipe.	

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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	During installation, wrenching and painting pipe, checking surroundings on site, using threading machine. Frequency depending on site.
REPETITIVE	X					Measuring and installing pipe, painting pipe at higher levels (ceiling), checking surroundings, using the lift to transport pipe. Frequency depending on site.
TWISTING						
SUSTAINED	X					-
REPETITIVE			X			Loading and unloading, threading, checking pipe placement and surroundings.
TRUNK MOVEMENTS						
BENDING						
SUSTAINED					X	During measuring tasks, installing, wrenching, and painting pipes, using threading machine. Frequency depending on site.
REPETITIVE	X					-
TWISTING						
SUSTAINED	X					-
REPETITIVE		X				Using threading machine, checking pipe placement and painting pipe.
SHOULDER MOVEMENTS						
OVERHEAD			X			Measuring and installing pipe, painting pipe at higher levels (ceiling). Frequency depending on site.
FORWARD REACHING				X		Loading and unloading materials/equipment, installing pipe, using pipe wrench, adjusting dye for threading machine, applying thread sealant and paint, measuring.
GRIPPING DEMANDS						
DOMINANT HAND						
REPETITIVE					X	Loading and unloading materials/equipment, gripping pipe, pipe wrench, adjusting dye for threading machine.
CONTINUOUS	X					-
NON-DOMINANT HAND						
REPETITIVE				X		Loading and unloading materials/equipment, gripping pipe, pipe wrench, adjusting dye for threading machine.
CONTINUOUS	X					-
FINGER DEXTERITY						
			X			Applying thread sealant, paint, using level.

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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 various tools to install pipe (paint (1 lbs.), pipe wrench (11 lbs.), etc.
MEDIUM (MAX 50 LB / 22.5 KG)			X			Lifting thread machine and thread machine tools/bucket (50 lbs.) during loading and unloading, lifting pipe.
HEAVY (MAX 100 LB / 45 KG)	X					Lifting pipe (up to 34 lbs.) and equipment from truck during loading and unloading, spinning pipe during threading (34 lbs.).
VERY HEAVY (OVER 100 LB / 45 KG)	X					Installing pipe (up to 34 lbs.) into ceiling or higher levels, lifting pipe (34 lbs.) and ladder (24 lbs.) from roof rack of truck.
CARRYING						
LIGHT (MAX 20 LB / 9 KG)			X			Carrying various tools to install pipe (paint (1 lbs.), pipe wrench (11 lbs.), etc.
MEDIUM (MAX 50 LB / 22.5 KG)			X			Carrying box of pipes – fittings (up to 60 lbs.) for install.
HEAVY (MAX 100 LB / 45 KG)	X					-
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					-
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					-
VERY HEAVY (OVER 100 LB / 45 KG)				X		Using wrench to install and tighten pipe (early phase), pushing/pulling dye for threading machine, etc. Using wrench to install and tighten pipe (finishing), cutting metal ring with threading machine.