## PHYSICAL DEMANDS DESCRIPTION (PDD)

	- Maintenance & Co  DEMANDS						ctrician	-	nnifer Yorke B. Sc. (Hons Kin)  Company Ozz Electric		
HYSICAL	DEMANDS	nent	*	FREQ	UENC	Y	LO	AD			
HYSICAL	DEMANDS	nent	*FREQUENCY				LOAD (object/tool)				
		Not Component	Seldom	Minor	Required  Major  Maximum (Kg)  Usual (Kg)	COMMENTS					
Lifting					X		38	5	Lifting materials off the ground		
Carrying					X		38	5	Carrying conduit from threader to installation point; wearing a tool belt		
Pushing			X						Pushing wire into conduit		
					X				Wire pulling through conduit		
Handling						Х	38	4	Materials & tools handling; Maximum lift – bundle of 1" conduit (38 Kg)		
Throwing		X									
Gripping	Power Grasp					X			Wire pulling, conduit installation		
	Pinch Grasp			X					Inserting wires into breaker panel		
Reaching					X		Wire pu	lling, cond	conduit installation, overhead work		
			X								
				X			Awkward conduit installation				
Shoulder				X			Conduit installation, reaming conduit				
	Flexion					X	Overhead work, wire pulling				
Нiр	Abduction			X			Balancing in awkward positions				
	Flexion/Extension			X							
Vrist	Radial/Ulnar Devn			X							
	Pronate/Supinate				X		Installing conduit				
Trunk	Flexion					X	Conduit installation, working in small spaces				
	Extension			X			Overhead work; ladder work				
	Side Bend			X			Overhead work; ladder work				
	Twist			X			Overhead work; ladder work				
	Flexion				X		Installir Condui Overhea Overhea Threadi	ng conduit	, conduit installation		
Neck	Extension				X		Overhea	d work, w	ire pulling		
	Side Bend		X								
	Twist		X								
Sitting		X					Work is	performed	standing, crouching or kneeling		
Standing						X					
Walking						X					
Climbing				X			Stairs & ladders				
Crawling			X								
Crouching					X		Installation of conduit				
Kneeling					X		Installation of conduit				
Balancing				X			Stairs, ladders, working above previously installed pipes				
Foot	One Foot			X			Kneeling				
Action	Feet					X					
ine Finger	Movements			X			Selection	n and inse	rtion of wires into panels		
	ulling Iandling Inrowing Irripping Ideaching Includer Inc	tulling  Idandling  Inrowing Inripping Power Grasp Pinch Grasp Pinch Grasp Pinch Grasp Power Shoulder Below Shoulder To the Side Power Grasp Pinch Grasp Pinch Grasp Power Grasp Pinch Grasp Pinch Grasp Pinch Grasp Above Shoulder Flexion Flexion Flexion Flexion Frexion Frunk Flexion Extension Side Bend Twist Flexion Flexion Extension Side Bend Twist Flexion Finger Movements Frouching Frawling Frouching Frawling Frouching Fro	ulling Idandling	tulling  Idandling  Inrowing  Idandling  Idandling	Throwing x pripping Power Grasp Pinch Grasp Above Shoulder Below Shoulder To the Side x Abduction Flexion Bip Abduction x Bide Bend X Bide	Mandling	Manual   M	Manual   M	Interest of the content of the conte		

SELDOM = Not always performed during completion of job MINOR = Performed less than 25% of job

REQUIRED = Frequent Repetition for 25%-50% of job MAJOR = Frequent Repetition for more than 50% of job

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			1	*FREQUENCY				
PHYSICAL DEMANDS			Not Component	Seldom	Minor	Required	Major	COMMENTS
SENSORY/PERCEPTUAL	Hearing	Conversations			X			During initial site organization, communicating during wire pulling, etc.
		Other Sounds		X				Emergency alarms
	Vision	Far				X		Past 5 feet; seeing potential obstacles during conduit layou
		Near				Х		Installation of conduit, conduit threading & bending
		Colour				X		Selecting correct wire based on colour
		Depth				Х		Determining the layout of conduit based on obstacles from pre-existing piping
	Perception	Spatial – organization				X		Layout of conduit
		Form - recognition				X		Distinguishing different sizes of conduit, selecting the correct screws
	Feeling						X	
	Reading		<u> </u>		X	1		Reading site layout
	Writing			X				
	Keying/Typing		X					
	Speech				X			Communicating during wire pulling, etc.
IN	Outside Work Hot			X		X		Average max. temp. (for the GTA) in July is 29C. Work continues during hot weather.
	Cold			Х				Work continues during the winter months – extreme cold limits ability to work
	Humid				X			Usually the weather is humid during the summer months – work continues during humid weather
	Dry						Х	Outdoor slab work stops during heavy rain; work mostly in dry weather/environments
$\exists$	Dust			X				
ORK ENVIRONMENT	Vapour Fumes			X				Sewage treatment plant
	Noise						X	Construction equipment, treatment plant noise
	Vibration	Whole Body	X					
$\Xi$		Upper Extremity				X		Drills, conduit threader
$\mathbf{Z}$	Contact Stress					X		Drills, conduit threader, Chicago bender
OR	Striking with Hand/Fist		X					Striking is accomplished with hand tools (eg. Hammer)
W	Moving Objects			X				Workers moving materials
	Hazardous Machines			X				
	Electrical						X	
	Sharp Tools				X			Conduit threader, conduit reamer
	Radiant/Thermal Energy		X					0.41
	Slippery			X				Outdoor surfaces can become slippery when it rains
	Congested Worksite Chemical Irritants		X				X	Previously laid piping & conduit
	Works Independent but in Group		^				X	Work is primarily done in groups of 2
SZ	Operate Equipment/Machinery					X	Λ	Drills, Chicago bender, etc.
CONDITIONS	Machine Paced		1		X	A .		Speed of conduit bender, threader
DI	Production Quotas						Х	Work must be done in a specific timeframe
NO.	Deadline Pressures				X		1	Fairly quick, continuous work rate
Ü	Irregular/Extended Hours			X	<u> </u>			V 1 /

**Prepared by:** Jennifer Yorke B. Sc. (Hon. Kin.)

MINOR = Performed less than 25% of job

**Supervised by:** Syed Naqvi – PhD CCPE (Ergonomist, OHCOW) & Gary Majesky (IBEW L.U. 353)

MAJOR = Frequent Repetition for more than 50% of job