PHYSICAL DEMANDS DESCRIPTION (PDD)

Date August 24, 2006 Analyst Jennifer Yorke B. Sc. (Hons Kin)										ennifer Yorke B. Sc. (Hons Kin)	
	rtment ICI				J	ob Tit	le Ele	ectrician		Company Urban Electric	
PHYSICAL DEMANDS			Not Component	*FREQUENCY				LOAD (object/tool)			
				Seldom	Minor	Required	Major	Maximum (Kg)	Usual (Kg)	COMMENTS	
	Lifting					Х		38	5	Lifting materials off the ground	
	Carrying				Х			38	5	Carrying conduit from threader to installation point; wearing a tool belt	
	Pushing				Х			2.5	2.5	Pushing unistrut into place; wire through conduit	
ΙΉ	Pulling				X					Wire pulling through conduit	
£.	Handling						X	38	5	Handling a small screwdriver, tools	
STRENGTH	Throwing			Х				>1	>1	Tossing a fixture to a worker on the elevated lift (approx. 8' from ground)	
S	Gripping	Power Grasp				X				Wire pulling, conduit installation	
		Pinch Grasp			X					Gripping of small screwdriver	
	Reaching	Above Shoulder				X				Installing unistrut and conduit	
		Below Shoulder			X					Picking materials up off the floor of the lift	
		To the Side			X					Awkward conduit installation	
	Shoulder	Abduction				X		Overhead work in an awkward position			
		Flexion					X	Overhead work			
	Hip	Abduction		X				Balancing in awkward positions			
	Wrist	Flexion/Extension			X						
		Radial/Ulnar Devn			X			Bolting fixture to unistrut			
ES		Pronate/Supinate				X		Installing conduit			
POSTURES	Trunk	Flexion				X		Conduit installation, working in small spaces			
$\mathbf{I}\mathbf{S}$		Extension		X				Overhead work; ladder work			
Ю		Side Bend		X				Overhead work in an awkward position			
]		Twist		X				Overhead work; ladder work			
		Flexion			X			Threading conduit, conduit installation			
	Neck	Extension				X		Overhead work			
		Side Bend		X				Overhead work in an awkward position			
		Twist		X				Overhea	d work in	an awkward position	
	Sitting			X				Work is mostly performed standing, crouching or kneeling			
	Standing						X				
	Walking					X		Walking on elevated lift platform, gathering materials			
∠.	Climbing				X			Climbing one flight of stairs, climbing into elevated lift			
E	Crawling				X			Installing conduit in tight spaces			
MOBILITY	Crouching				X			Cutting unistrut			
	Kneeling				X			Installation of conduit			
M	Balancing				X			Balancing on moving elevated lift platform			
	Foot One Foot			X				Climbing ladder into elevated lift platform			
	Action	Feet					X	Standing on elevated lift platform			
	Fine Finger Movements					X		Tighteni connecti		trol panel screws, insertion of wire into	
<u></u>					*	FREQ	UENC	Y			

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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PHYSICAL DEMANDS			Not Component	Seldom	Minor	Required	Major	COMMENTS
	Hearing	Conversations			Х			Communicating with partner regarding task at hand
SENSORY/PERCEPTUAL	8	Other Sounds		X				Potential emergency calls and alarms
	Vision	Far			Х			Seeing past 5 feet; identifying a path for elevated lift
		Near					Х	Installation of conduit, conduit threading & bending
		Colour			х			Reading blueprints
		Depth				X		Determining the amount of offset needed in the conduit
	Perception	Spatial – organization				Х		Layout of conduit
	1	Form - recognition				X		Distinguishing different sizes of conduit, selecting the correct screws
OF	Feeling						Х	Identifying different sizes of conduit; different connectors
Š	Reading			X				Reading blueprints
SE	Writing			X				Marking out the layout
	Keying/Typing		Х					
	Speech				Х			Communicating during wire pulling, etc.
	Outside Work					Х		
	Hot				Х			Average max. temp. (for the GTA) in July is 29C. Work continues during hot weather.
	Cold				X			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
L	Dry						X	Outdoor work stops during heavy rain; work mostly in dry weather/environments
WORK ENVIRONMENT	Dust						X	Construction site
 	Vapour Fumes				X			Elevated lift platform generator
Ö	Noise						X	Construction equipment
TR	Vibration	Whole Body		X				Standing on the platform of the lift while its moving
Ź		Upper Extremity			X			Using electric hand saw
K E	Contact Stress			X				Drills, conduit threader, Chicago bender
RF	Striking with Hand/Fist		X					Striking is accomplished with hand tools (eg. Hammer)
ΟΛ	Moving Objects				X			Workers moving materials, elevated lift platform
^	Hazardous Machines				X			Elevated lift platform
	Electrical				X			
	Sharp Tools				X			Conduit threader, conduit reamer
	Radiant/Thermal Energy			X				Preventative maintenance is performed when the steam plant is up and running
	Slippery			X				Outdoor surfaces can become slippery when it rains
	Congested Worksite					X		Machinery, building supplies, uneven terrain
	Chemical Irritants		X					
7.0	Works Independent but in Group					X		Work is primarily done in groups of 2
Š	Operate Equipment/Machinery					X		Drills, Chicago bender, Elevated lift platform, etc.
CONDITIONS	Machine Paced					X		Speed of conduit bender, threader, elevated lift platform
	Production Quotas						X	Work must be done in a specific timeframe
[O]	Deadline Pressures				X			Must work to the contractor's predetermined schedule
	Irregular/Extended Hours			X				
*FREQUENCY								

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

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Prepared by: Jennifer Yorke B. Sc. (Hons. Kin.)