PHYSICAL DEMANDS DESCRIPTION (PDD)

Date July 7, 2006								**Analyst** Jennifer Yorke B. Sc. (Hons Kin)		
Department Ladder work				**Job Title** Electrician				**Company** IBEW L.U. 353		
PHYSICAL DEMANDS			**Not Component**	***FREQUENCY**				**LOAD (object/tool)**		**COMMENTS**
				Seldom	**Minor**	**Required**	**Major**	**Maximum (Kg)**	**Usual (Kg)**	
STRENGTH	Lifting				x			20	5	Lifting a ladder, materials for the job
	Carrying						x	20	5	A tool belt is worn to carry tools – hammer, drill (Approx. 5 Kg); Carrying a ladder
	Pushing				x					Pushing the ladder into place
	Pulling				x					Pulling the ladder into place
	Handling				x			20	5	Moving the ladder, gathering supplies
	Throwing		x							
	Gripping	Power Grasp				x				Using a drill or hammer
		Pinch Grasp			x					Holding nails or small components
	Reaching	Above Shoulder					x			Overhead work
		Below Shoulder			x					Locating equipment on the ladder platform when doing overhead work
		To the Side			x					Overhead work is in an awkward location
POSTURES	Shoulder	Abduction				x		Overhead work is in an awkward location		
		Flexion					x	Overhead work		
	Hip	Abduction	x							
	Wrist	Flexion/Extension		x						
		Radial/Ulnar Devn			x			Holding ladder sides when ascending/descending the ladder, drilling		
		Pronate/Supinate		x						
	Trunk	Flexion			x			Looking down when descending a ladder, locating equipment, etc. on the ladder platform when doing overhead work		
		Extension					x	Overhead work		
		Side Bend			x			Overhead work is in an awkward location		
		Twist			x			Overhead work is in an awkward location		
	Neck	Flexion			x			Looking down when descending a ladder, locating equipment, etc. on the ladder platform when doing overhead work		
		Extension					x	Overhead work		
		Side Bend			x			Overhead work is in an awkward location		
		Twist			x			Overhead work is in an awkward location		
MOBILITY	Sitting		x							
	Standing						x			
	Walking					x		Walking to different task sites, retrieving equipment		
	Climbing					x		Ascending/descending a 12’ ladder		
	Crawling		x							
	Crouching		x							
	Kneeling			x				Knees may rest on ladder rungs while working		
	Balancing						x	Balancing while working/ascending/descending 12’ ladder		
	Foot Action	One Foot	x							
		Feet					x	Climbing a 12’ ladder,		
	Fine Finger Movements				x			Pulling drill trigger, holding nails		

***FREQUENCY**

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

PHYSICAL DEMANDS DESCRIPTION (PDD)

PHYSICAL DEMANDS			Not Component	*FREQUENCY				COMMENTS
				Seldom	Minor	Required	Major	
SENSORY/PERCEPTUAL	Hearing	Conversations		x				
		Other Sounds		x				Potential emergency calls or alarms
	Vision	Far		x				Identifying if conduit is straight
		Near					x	Work is within arms reach at all times (Approx. 3' or less)
		Colour		x				Identifying and recognizing different types of wire
		Depth				x		Estimating how many ladder rungs one must descend to reach the floor
	Perception	Spatial – organization				x		Identifying the correct height of ladder needed to reach the overhead work
		Form - recognition				x		Identifying different tools, sizes of conduit etc.
	Feeling					x		Identifying if screws are tight based on feel
	Reading		x					
	Writing		x					
	Keying/Typing		x					
	Speech			x				
WORK ENVIRONMENT	Outside Work		x					Indoor work environment
	Hot		x					Indoor work environment (with A/C)
	Cold		x					Indoor work environment
	Humid		x					Indoor work environment
	Dry						x	Indoor work environment; not working near water
	Dust				x			Retrofitting work – dust gathers on overhead pipes and lights
	Vapour Fumes		x					
	Noise					x		Conversations in building, drilling, etc.
	Vibration	Whole Body	x					
		Upper Extremity			x			Using a drill
	Contact Stress					x		Drilling, hammering
	Striking with Hand/Fist		x					
	Moving Objects			x				The ladder can move if on uneven terrain
	Hazardous Machines		x					
	Electrical					x		Working on electrical wiring or components
	Sharp Tools			x				
	Radiant/Thermal Energy				x			Working beside or near fluorescent lighting
	Slippery		x					
	Congested Worksite						x	Pre-existing conduit, piping & lights obstructing work site
	Chemical Irritants		x					
CONDITIONS	Works Independent but in Group		x					Works independently
	Operate Equipment/Machinery		x					
	Machine Paced		x					
	Production Quotas						x	Must complete work in a timely manner
	Deadline Pressures		x					
	Irregular/Extended Hours		x					

***FREQUENCY**

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

Prepared by: Jennifer Yorke B. Sc. (Hon. Kin.)
Supervised by: Syed Naqvi – PhD CCPE (Ergonomist OHCOW) & Gary Majesky (IBEW L.U. 353)