



TASK INVENTORY

Division: Industrial

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JOB PHASE	TASKS	HAZARDS	Severity (1-4)	Probability (1-5)	Risk Before	CONTROLS / STANDARDS	Severity (1-4)	Probability (1-5)	Risk After	Electrician	Apt. Electrician	Instrumentation	Apt. Instrumentation	Superintendent	General Foreman	Project Manager
					<u>Risk (1-20)</u> Green = Low Yellow = Medium Orange = High Red = Extreme				<u>Risk (1-20)</u> Green = Low Yellow = Medium Orange = High Red = Extreme							
Pre Construction site tour	Walking in Yard/on Site	Icy/uneven/slippery surfaces, working around mobile equipment	3	2		PPE, traction aids, housekeeping in yard SWP 19 (Housekeeping)	1	2		✓	✓	✓	✓	✓	✓	✓
Site Survey/layout	Working from Ladders	Falls, tools left on ladders, defective ladder, awkward positioning, metal ladders	3	2		Tie off ladders, maintain 3 point contact, SWP 25 (Ladders)	2	2		✓	✓	✓	✓	✓	✓	✓
Mobilization (MOB)/ Demobilization (DMOB)	Using Forklift/Power Mobile Equipment	Working around mobile equipment, crush/pinch points, lack of competency, equipment upset	3	2		3rd party competency tickets, seatbelts, back up alarms, SJP 23 (Forked Lifting Equipment), SWP 44 (Mechanical Mobile Equipment Operations)	2	2		✓	✓	✓	✓	✓	✓	✓
	Load/Unload Material	Property damage, crush/pinch points, falls, equipment upset	3	3		Appropriate glove use, SWP 22 (Material Handling), SWP 54 (Rigging)	3	2		✓	✓	✓	✓	✓	✓	✓
	Driving	Physical injury, property/equipment damage, Driver distraction, compacency	4	3		HSEMS Section 21 (FSJM), vehicle engineering controls, vehicle tracking	3	2		✓	✓	✓	✓	✓	✓	✓
	Pulling Trailer	Physical injury, property/equipment damage, Driver distraction, compacency, Blind spots	2	2		HSEMS Section 21 (FSJM), vehicle engineering controls, vehicle tracking	2	2		✓	✓	✓	✓	✓	✓	✓
	Stripping Cable	Cuts, overexertion, repetitive strain injury, sharp edges, tripping	2	3		SWP 66 (Use of knives), EI-SJP 10 (Stripping Teck Cable), Approved knives, kevlar gloves (HSEMS Section 6 PPE)	2	3		✓	✓			✓	✓	
	Using contact sprays/lubricants/inhibitors	Chemical exposure, eye irritation, fire hazard	2	3		Eye protection, Section 15 (Environment), SDS Review, WHMIS training, Chemical gloves, SWP 17 (Chemical, Biological Hazards and Harmful Substances)	2	3		✓	✓			✓	✓	
	Manual Lifting/ Carrying	Overexertion/strain, falls, pinch/crush points	3	3		Appropriate glove use (HSEMS Section 6 PPE), SWP 22 (Material Handling)	3	3		✓	✓	✓	✓	✓	✓	✓
	Getting on and off Equipment/Facilities	Falls, trips, icy/uneven/slippery surfaces	2	3		PPE, SWP 18 (Tools, Equipemnt, Machinery)	2	3		✓	✓	✓	✓	✓	✓	✓
	Use of Aerial Lift	Falls from height, equipment damage, property damage, crushing injuries from pinching against structure	3	2		SWP 18 (Tools, Equipment, Machinery), COP 06 (Fall Protection)	3	2		✓	✓	✓	✓	✓	✓	✓
	Use of Powder-Actuated Tools	Noise, flying debris, line of fire injuries	2	2		PPE, SWP 18 (Tools, Equipment, Machinery)	2	2		✓	✓	✓	✓	✓	✓	✓
	Print Tags	Use of printer, repetitive motion	2	2		PPE, micro breaks and streches, SWP 22 (Ergonomics - Manual Material Handling)	2	2		✓	✓	✓	✓			
Site prep./Buring Cable	Working around Hydrovac/Daylight Buried Facilities	Noise, vibration, crush, repetitive strain, heavy lifting, vibration	2	2		COP 04 (Noise Control), COP 07 (Ground Disturbance)	2	2		✓	✓	✓	✓	✓	✓	✓
	Dig trench (Excavating)	Electrocution, equipment upset, property damage, vibration, noise, rotating equipment, muscle strains (Hand digging)	2	2		COP 07 (Ground Disturbance)	2	2		✓	✓	✓	✓		✓	
	Lowering in/pulling Cable	Overexertion, repetitive strain, sloughing/engulfment, falls, crush points of hands and feet with large cables, or wooden reels	2	2		SWP 22 (Material Handling)	2	2		✓	✓	✓	✓	✓	✓	
	Backfilling Trench	Falls, property damage, noise, vibration from compaction tools	2	1		COP 07 (Ground Disturbance)	2	1		✓	✓	✓	✓		✓	
	Compacting Backfill	Noise, vibration, crush, repetitive strain, heavy lifting, vibration	3	2		COP 04 (Noise Control), COP 07 (Ground Disturbance)	3	2		✓	✓	✓	✓			
	Install Warning Tape	Repetive strain, cuts, falls	2	1		Follow ground disturbance procedure, COP 07 (Ground Disturbance)	2	1		✓	✓			✓	✓	
Above Ground Cable Install/Tray, Electrical equipment & Cabinet Installs	Set Generator	Working around mobile equipment, property damage, crush points, upset, spills, ground conditions	4	2		Use of trained spotter(s) SWP 75 (Vehicle and Equipment Spotting), use of taglines, SWP 54 (Rigging), SWP 34 (Cranes, Hoists and Lifting Devices)	4	2		✓	✓	✓	✓	✓	✓	
	Set Panel	Working around mobile equipment, property damage, crush points, upset, spills, ground conditions, repetitive strain, overexertion	3	2		Use of trained spotter(s) SWP 75 (Vehicle and Equipment Spotting), use of taglines, SWP 54 (Rigging), SWP 34 (Cranes, Hoists and Lifting Devices)	3	2		✓	✓	✓	✓	✓	✓	
	Run Cables	Repetitive strain, overexertion, cuts, fall hazards	2	2		SJP-EI-08 (Pulling Teck Cable Into Cable Tray), SJP-EI-09 (Pulling Wire in Conduit)	2	2		✓	✓				✓	
	Attach/Energize temporary cables	Overexertion, eletrocution, arc flash, fall/trip hazards, fire/explosion	4	2		SJP-EI-13 (Equipment Installation), SJP-EI-20 (Gland and terminate cable into live Dist Panel Under 600V)	4	2		✓	✓			✓	✓	
	Use of Chop Saw	Noise, rotating equipment, flying debris, cuts	3	3		COP 04 (Noise Control) COP 04, SWP 18 (Tools Equipment Machinery)	3	3		✓	✓	✓	✓		✓	
	Handling Tray	Cuts, sharp edges, strains, overexertion. Hands & Fingers pinched or caught in between tray and mounts	3	2		Appropriate gloves, Material Hand line (SWP 22), EI-06 (Installing Cable Tray)	3	2		✓	✓			✓	✓	
	Filing tray	Cuts, sharp edges, flying debris, repetitive strain	2	2		Appropriate gloves, Material Hand line (SWP 22), EI-06 (Installing Cable Tray)	2	2		✓	✓			✓	✓	✓
	Working with Hand Tools at Heights	Falling tools, falls, equipment damage, repetitive strain	3	2		Use of tool laynards where appropriate, SWP 20 (Working at Heights), COP 06 (Fall Protection)	3	2		✓	✓	✓	✓	✓	✓	
	Attach Cable Tray	Falls, repetitive strain, cuts, Hands & Fingers pinched or caught in between tray and mounts	3	2		PPE, EI-SJP-06 (Installing Cable Tray)	3	2		✓	✓			✓	✓	
	Secure Loads for Transportation	Crush injuries, equipment damage, vehicle damage	2	2		HSEMS Section 21 (Fleet Safety Journey Management)	2	2		✓	✓	✓	✓	✓	✓	✓
	Transporting Material on Public Roads	Vehicle collisions, vehicle damage, equipment damage, injuries to public, load not properly secured	3	3		HSEMS Section 21 (Fleet Safety Journey Management), TDG Regulation	3	3		✓	✓	✓	✓	✓	✓	✓
	Driving Light Duty Vehicles	Vehicle collisions, vehicle damage, injuries from collisions, blind spots for canopy trucks	4	2		HSEMS Section 21 (Fleet Safety Journey Management), vehicle engineering controls	4	2		✓	✓	✓	✓	✓	✓	✓
	Pulling Trailers	Vehicle collisions, vehicle damage, equipment damage, injuries to public, NSC compliance or violations	4	3		HSEMS Section 21 (Fleet Safety Journey Management), vehicle engineering controls	4	3		✓	✓	✓	✓	✓	✓	✓
	Pulling small Gauge Wires	Repetitive strain injury, cuts, Line of fire (pulling towards body)	2	2		SJP-EI-09 (Pulling Wire in Conduit), HSEMS Section 6 (PPE)	2	2		✓	✓			✓	✓	
	Attaching light fixtures	Repetitive strain injury, cuts, property damage, dropped material, rigging failure	2	2		SWP 18 (Tools Equipmet and Lifting Devices), SWP 25 (Ladders)	2	2		✓	✓			✓	✓	
	Isolating Electrical Systems	Electrocution/shock hazard, equipment damage	4	3		COP 05 (Lockout/ Tag Out), HSEMS Section 6 (PPE)	4	3		✓	✓			✓	✓	
	Use of Picker	Equipment damage, property damage, dropped material, rigging failure	3	2		Use of outriggers, SWP 54 (Rigging), SWP 34 (Cranes Hoists and Lifting Devices)	3	3		✓	✓	✓	✓	✓	✓	
	Rigging Material	Equipment damage, property damage, dropped material, rigging failure	3	2		SWP 54 (Rigging), rigging training	1	3		✓	✓	✓	✓	✓	✓	
	Terminating Lights to Feeder Panel	Electrocution/shock hazard, equipment damage	3	3		COP 05 (Lockout/ Tag Out), PPE	3	3		✓	✓			✓	✓	
	Winching Lights	Repetitive strain injury, cuts, property damage, dropped material, rigging failure	2	2		Mechanical wench, EI-SJP 07 (Installing Yard Lights)	2	2		✓	✓			✓	✓	
	Testing Lights	Electrocution/shock hazard, equipment damage, fire	2	2		Testing equipment, EI-SJP 07 (Installing Yard Lights)	2	2		✓	✓			✓	✓	
	Postion Cable Reels/stands	Repetitive strain injury, crush or pinch injuries, overexertion	2	2		SWP 22 (Material Handling), HSEMS Section (6 PPE)	2	2		✓	✓			✓	✓	
	Pulling Cable by Hand	Repetitive strain injury	3	3		HSEMS Section 6 (PPE), pulling in teams where required, use of cable lubricant, SJP-EI-09 (Pulling W/ire in Conduit)	3	3		✓	✓			✓	✓	
	Pulling Cables at Heights	Repetitive strain injury, falls	4	3		COP 06 (Fall Protection), SWP 25 (Ladders), SJP-EI-09 (Pulling Wire in Conduit)	4	3		✓	✓			✓	✓	
	Pulling in Groups	Repetitive strain injury, congestion, crush or pinch injuries, overexertion	3	3		Use of cable sheaves where appropriate, cable lubrication, method of communication between groups	3	3		✓	✓			✓	✓	

	Set up Sheaves	Pinch/crush points, dropped objects, falls, working at heights	2	2		COP 06 (Fall Protection), SWP 25 (Ladders)	2	2		✓	✓			✓	✓	✓
	Install cable Pulling Harness	Pinch points, cuts, overexertion,	2	2		HSEMS Section 6 (PPE), work at heights, COP 06 (Fall Protection), SWP 25 (Ladders)	2	2		✓	✓			✓	✓	
	Use of Cable Pullers /Tuggers	Cuts, pinch injuries , property damage, line of fire (tension on rope/cable)	4	3		HSEMS Section 6 (PPE), set up of cable pullers	4	3		✓	✓			✓	✓	
	Securing Cable in Tray	Repetitive strain injury, cuts, Line of fire (pulling towards body)	2	2		EI-SJP 06 (Installing Cable Tray)	2	2		✓	✓			✓	✓	
	Cutting conduit	Cuts, sharp edges of material, noise, flying debris	3	2		Double eye protection, chop saw guard, HSEMS Section 6 (PPE)	3	2		✓	✓			✓	✓	
	Threading Conduit (Power Threader)	Cuts, sharp edges of material, pinch points, overpressure	4	2		HSEMS Section 6 (PPE), use of double eye protection, cutting fluid, SWP 17 (Chemical, Biological Hazards and Harmful Substances)	4	2		✓	✓			✓	✓	
	Threading Conduit (Hand Threader)	Cuts, sharp edges of material, pinch points	3	2		HSEMS Section 6 (PPE), use of double eye protection, warm up and stretch, SWP 22 (Ergonomics - Manual Material Handling)	3	2		✓	✓			✓	✓	
	Bending Conduit	Overexertion, repetitive strain injuries, cuts	2	2		HSEMS Section 6 (PPE), use of double eye protection, cutting fluid, SWP 17 (Chemical, Biological Hazards and Harmful Substances)	2	2		✓	✓			✓	✓	
	Heavy Lifting	Repetitive strain injury, pinch points, over exertion	4	3		SWP 22 (Material Handling), SWP 34 (Cranes Hoists Lifting Devices), tandom lifts	4	3		✓	✓	✓	✓	✓	✓	✓
	Using Fish Tape	Repetitive strain injury, cuts, Line of fire (pulling towards body)	2	1		HSEMS Section 6 (PPE), use of eye protection, SWP 22 (Ergonomics - Manual Material Handling), proper body position	2	1		✓	✓			✓	✓	
	Pulling Wire in Conduit	Repetitive strain injury, pinch points, over exertion, line of fire (pulling towards body)	2	2		EI-SJP 09 (Pulling Wire in Conduit)	2	2		✓	✓			✓	✓	
	Install Conduit Clips	Pinch points, cuts, repetitive strain injuries	2	1		Use of hand tools, HSEMS Section 6 (PPE)	2	1		✓	✓			✓	✓	
	Use of Power Drill	Cuts, repetitive strain injury, flying debris	2	2		Eye protection HSEMS Section 6 (PPE), SWP 18 (Tools Equipment/Machinery)	2	2		✓	✓	✓	✓	✓	✓	
	Use of Knives	Cuts, repetitive strain injuries, wrong tool or improper maintenance (dull blade)	3	4		PPE, SWP 66 (Use of Knives)	3	4		✓	✓	✓	✓	✓	✓	
	Handling Bare Cable	Cuts, repetitive strain injuries, pinch points	3	2		Cut proof gloves, HSEMS Section 6 (PPE)	3	2		✓	✓			✓	✓	
	Using Cable Strippers	Cuts, sharp edges of material, repetitive strain injuries, pinch points, wrong tool or improper maintenance (dull blade)	2	2		Appropriate gloves HSEMS Section 6 (PPE), proper body positions, cut away from body	2	2		✓	✓			✓	✓	
	Installing Strut (Bolt/Screw)	Cuts, repetitive strain injury	2	2		HSEMS Section 6 (PPE), SWP 18 (Use of Tools/Equipment and Machinery)	2	2		✓	✓			✓	✓	
	Installing Strut (Welding)	Cuts, repetitive strain injury, hot surfaces, welding flash, flying debris	2	2		HSEMS Section 6 (PPE), double eye protection	2	2		✓	✓			✓	✓	
	Uncoil Heat Trace Cable	Repetitive strain injury, tripping hazard introduced	2	2		HSEMS Section 6 (PPE), EI-SJP 11 (Installing MI Heat Trace)	2	2		✓	✓			✓	✓	
	Position Trace on Pipe	Overexertion, repetitive strain injury, falls, pinch points	2	2		EI-SJP 11 (Installing MI Heat Trace)	2	2		✓	✓			✓	✓	
	Band Tracer to Pipe	Repetitive strain injury, falls, pinch points, cuts and sharp edges on banding material	2	2		EI-SJP 11 (Installing MI Heat Trace)	2	2		✓	✓			✓	✓	
	Megger Test Before and After Insulation	Electrical shock, presence of hazardous gas	2	2		EI-SJP 11 (Installing MI Heat Trace) monitor for hazardous classification areas	2	2		✓	✓			✓	✓	✓
	Position Heat Trace on Pipe	Repetitive strain injury, falls	2	2		HSEMS Section 6 (PPE), EI-SJP 12 (Installing SR Heat Trace)	2	2		✓	✓			✓	✓	
	Heat Tracing (Tubing) Install glycol heat trace	Strains/overexertion, pinch points, cuts	2	3			2	3								
	Tape Heat Trace in Place	Repetitive strain injury, falls	2	2		EI-SJP 12 (Installing SR Heat Trace)	2	2		✓	✓			✓	✓	
	Install End Kits and Power Kits	Cuts, laceration	2	2		EI-SJP 12 (Installing SR Heat Trace)	2	2		✓	✓			✓	✓	
	Rigging Equipment	Property damage, cuts, crush points, rigging failure	2	2		HSEMS Section 6 (PPE), use of taglines, SWP 54 (Rigging)	2	2		✓	✓	✓	✓	✓	✓	✓
	Lifting Equipment off Trucks	Equipment damage, property damage, crush points	4	3		HSEMS Section 6 (PPE), use of taglines, SWP 34 (Cranes Hoists Lifting Devices), 3rd party operator training, SWP 54 (Rigging)	4	3		✓	✓	✓	✓	✓	✓	✓
	Install Panels	Property damage, pinch/crush points	3	2		HSEMS Section 6 (PPE), use of taglines, SWP 34 (Cranes Hoists Lifting Devices), 3rd party operator training, SWP 54 (Rigging)	3	2		✓	✓			✓	✓	✓
	Install Electrical Instruments	Property damage, pinch/crush points, cuts, awkward body position, strains, dropped objects	3	2		HSEMS Section 6 (PPE), use of taglines, follow COP 5 (Lock-Out-Tag-Out)	3	2		✓	✓			✓	✓	✓
	Install Ground Rods	Overexertion, vibration, noise, falls, impalement, pinch/crush points, contact with buried facilities	3	3		COP 07 (Ground Disturbance), HSEMS Section 6 (PPE)	3	3		✓	✓			✓	✓	
	Install Grounding Points/Lugs	Cuts, pinch points	2	2		SWP 18 (Tool/Equipment and Machinery)	2	2		✓	✓			✓	✓	
	Install Ground/Bonding Cable	Cuts, pinch points	2	2		SWP 18 (Tool/Equipment and Machinery)	2	2		✓	✓			✓	✓	
	Install Corrosion Inhibitor on Contact Points	Chemical exposure	1	2		Eye protection, HSEMS Section 6 (PPE), handle product as per SDS	1	2		✓	✓			✓	✓	
	Bolt Down Equipment	Repetitive strain injury, cuts, noise,	2	2		Use of mechanical tools, SWP 74 (Wrench Use), use of power tools, maintain proper body	2	2		✓	✓			✓	✓	
	Unrolling Tubing	Repetitive strain injury, tripping hazard from unspooling tubing	2	1		HSEMS Section 6 (PPE), SWP 22 (Material Handline)	2	1		✓	✓			✓	✓	
	Bend Tubing	Repetitive strain injury, overexertion	3	3		PPE, SWP 22 (Material Handling), use appropriate hand tools SWP 74 (Wrench Use)	3	3		✓	✓			✓	✓	
	Use of Hand Benders	Repetitive strain injury, pinch points, overexertion	2	3		PPE, maintian prover body position, warm up, use of hand tools, SWP 18 (Tools Equipment Machinery)	2	3		✓	✓			✓	✓	
	Banding Tube to Pipe	Repetitive strain injury, falls, pinch points, cuts and sharp edges on banding material	2	2		HSEMS Section 6 (PPE),use of hand tools, maintain body positioning, SWP 22 (Ergonomics - Manual Material Handling)	2	2		✓	✓			✓	✓	
	Install Fittings	Repetitive strain injury, sharp edges of fittings and cut tubing.	2	2		HSEMS Section 6 (PPE), use of appropriate hand tools, SWP 18 (Tools Equipment Machinery)	2	2		✓	✓	✓	✓	✓	✓	
	Hydrostatic Testing on Tubing	Pressure release, property damage	2	3		SJP 09 (Hydrostatic Testing), set up control zone, select least harmful medium	2	3		✓	✓	✓	✓	✓	✓	✓
	Pneumatic Pressure Testing Tubing	Pressure release, property damage, struck by flying material	3	4		SJP 10 (Pressure Testing - Pneumatic), Set up of control zones, use of PSVs, use of faceshields, HSEMS Section 6 (PPE).	3	4		✓	✓	✓	✓	✓	✓	✓