

Alberta Small Employer OHS Legislated Requirements

Industry Code: 40901
Power Line – Construct/Remove

This document is a guideline only. Employers have a responsibility of assessing all applicable occupational health and safety legislation, for the tasks they are performing.

Employers in this industry use a variety of mobile equipment and manpower to supply, install and maintain complete power transmission systems (not generating systems) of towers and lines for utility companies.

Task description	Type of equipment used and workers employed
<p>Businesses in this industry are regularly contracted by the utility companies which generate the power.</p> <p>This work is most often conducted in remote areas. Land is cleared of brush and trees, holes are dug, foundations of concrete poured, poles or towers erected, lines are spooled out and strung using a winch attached to a tractor or truck. Lines may be spliced or repaired manually by linemen who climb the poles or are mechanically lifted to the height required.</p>	<p>Equipment utilized in this industry is varied: mobile equipment, cranes, trucks, welders, spooling equipment, line splicers, etc.</p> <p>Workers include; equipment operators, designers, engineers, technical staff, labourers, warehouse, yard staff, sales/estimators, and office/administrative staff.</p>

Relevant sections of OHS Legislation:

Occupational Health and Safety Act	
Section	2 Obligations of employers, workers, etc.
	18 Serious injuries and accidents
	19 Investigation of accidents
	35 Existence of imminent danger
	37 Disciplinary action complaint

Occupational Health and Safety Regulation	
Section	7 Availability of specifications
	12 Equipment
	13 General protection of workers
	14 Duties of workers
	15 Safety training

Occupational Health and Safety Code (2009)		
Part 1	Section	
Definitions and	2.1	Availability of legislation
General Application	2.2	Designated person to prepare plan

Part 2	Section	
Hazard Assessment,	7	Hazard assessment
Elimination and	8	Worker participation
Control	9	Hazard elimination and control

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Part 3	Section	
Specifications and Certifications	12	Following specifications
	13	Manufacturer’s and Professional Engineer’s specifications
	14	Certification by a professional engineer
	15	Approved equipment

Part 6	Section	
Cranes, Hoists and Lifting Equipment	59	Application
	60	Not commercially manufactured
	61	Identification of components
	62	Rated load capacity
	63	Load charts
	64	Operator requirements
	65	Log books
	66	Preventing an unsafe lift
	67	Preventing collisions
	68	Load weight
	68.1	Lift calculation
	69	Loads over work areas
	70	Tag and hoisting lines
	71	Hand signals
	72	Controls
	73	Repairs and modifications
	74	Containers for hoisting
	75.1	Suspended personnel baskets
	88	Safety codes for mobile cranes
	88.1	Personnel baskets
	89	Non-destructive testing
	90	Counterweights and outriggers
	91	Warning device
92	Preventing damage	
92.1	Load blocks	
92.2	Outriggers	

Part 7	Section	
Emergency	115	Emergency response plan
Preparedness and Response	116	Contents of plan
	117	Rescue and evacuation workers
	118	Equipment

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Part 9		Section
Fall Protection	139	General protection
	140	Fall protection plan
	141	Instruction of workers
	142	Full body harness
	143	Connectors, carabiners and snap hooks
	144	Fall arrestors
	150	Equipment compatibility
	150.1	Inspection and maintenance
	150.2	Removal from service
	151	Clearance, maximum arresting force and swing
	152.1	Anchor strength - temporary
	152.1	Anchor strength - permanent
	152.2	Duty to use anchors
	152.3	Independence of anchors
	160	Work positioning

Part 11		Section
First Aid	178	Providing services, supplies, equipment
	179	Location of first aid
	180	Emergency transportation
	181	First aid providers
	182	Duty to report injury or illness
	183	Record of injury or illness
	184	First aid record access
	Refer to Schedule 2	

Part 12		Section
General Safety	185	Housekeeping
Precautions	186	Lighting
	189	Securing equipment and materials
	194	Vehicle traffic control

Part 14		Section
Lifting and Handling	208	Equipment
Loads	209	Adapting to heavy or awkward loads
	210	Assessing manual handling hazards

Part 15		Section
Managing the Control of Hazardous Energy	212	Isolation
	213	Verifying isolation
	214	Securing by individual workers
	215.3	Returning to operation

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Part 18	Section	
Personal Protective Equipment	228	Duty to use personal protective equipment
	229	Eye protection (compliance with standards)
	233	Footwear
	234	Head protection
	242	Limb and body protection
	243	Skin protection

Part 19	Section	
Powered Mobile Equipment	256	Operator Responsibilities
	257	Visual inspection
	258	Dangerous movement
	260	Inspection and maintenance
	262	Starting engines
	263	Unattended equipment
	264	Lights
	265	Windows and windshields
	266	Other safety equipment
	279	Refuelling

Part 21	Section	
Rigging	292	Breaking strength
	292.1	Safety factors
	293	Load ratings
	294	Inspection
	295	Prohibition
	296	Rigging protection
	297	Standards
	298	Slings
	299	Rope wound on drum
	300	Cable clips
	301	Ferrules
	302	Matching components
	303	Safety latches
	304	Makeshift rigging and welding
	305	Synthetic fibre slings
	306	Wire rope
	307	Metal mesh slings
	308	Electric arc damage
309	Damaged hooks	

Part 22	Section	
Safeguards	310	Safeguards

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	311	Tampering with safeguards
	312	No safeguards

Part 25	Section	
Tools, Equipment and Machinery	362	Contact by clothing, etc.
	375	Grinders
	377	Circular Saw Blades

Part 27	Section	
Violence	389	Hazard assessment
	390	Policy and procedures
	391	Instruction of workers
	392	Response to incidents

Part 29	Section	
Workplace Hazardous Materials Information System (WHMIS)	397	Training
	398	Label required
	400	Decanted products
	404	Material Safety Data Sheet - Supplier
	406	Information current (MSDS)
	407	Availability of Material Safety Data Sheet

Part 32	Section	
Excavating and Tunnelling	441	Disturbing the ground
	442	Classification of soil type
	443	Soil stabilization
	444	Marking and excavation
	445	Water hazard
	446	Worker access
	447	Locating buried or concrete-embedded facilities
	448	Exposing buried facilities
	450	Methods of protection
	451	Cutting back walls
	452	Loose material
	453	Spoil piles
	454	Power pole support
	455	Safe entry and exit
459	Access for powered mobile equipment	
	Refer to Schedule 9	

Part 40	Section	
Utility workers - Electrical	797	Application
	798	Application
	799	Protective devices or equipment
	800	Safe work practices for electric utilities and rural

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	electrification associations
802	Coordinated work
803	Communication lines, cables
804	Work on energized electrical equipment or lines (above 750 volts)