

Alberta Small Employer OHS Legislated Requirements

Industry Code: 51504
Cathodic Protection Service

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.

Cathodic protection refers to the measures taken to prevent negative charges:

Task description	Type of equipment used and workers employed
The measures taken to prevent negative charges from building, which are produced by fluid such as oil as it runs through a pipe or pipeline. The friction creates a negative charge build-up which causes corrosion in the pipe.	Employers may use trucks and smaller excavation equipment, electrical devices and apparatus; and employ technical staff, laborers, sales/estimators and administrative staff.
A trench is dug near the pipeline and anodes are attached to wires on or near the pipe. A positive charge through the anodes counteracts the negative charge in the pipe, which prevents corrosion.	

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 4	Section	
Chemical Hazards, Biological Hazards and Harmful Substances	16	Worker exposure to harmful substance
	21	Potential worker exposure
	22	Worker overexposure
	24	Emergency baths, showers, eye wash equipment
	27	Storage of harmful substance
Refer to schedule 1		

Part 5	Section	
Confined Spaces	45	Hazard assessment
	46	Training
	48	Safety and protection - generally
	50	Unauthorized entry
	51	Traffic hazards
	55	Emergency response
	56	Tending worker
	57	Entry and exit

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

Part 10	Section	
Fire and Explosion Hazards	161.1	Flammable or explosive atmospheres a hazard
	162	Prohibitions
	164	Contaminated skin and clothing
	171	Compressed and liquefied gas

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		

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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	215.4	Isolating piping
	215.5	Pigging and testing of pipelines

Part 17	Section	
Overhead Power Lines	225	Safe limit of approach distances
Refer to Schedule 4		

Part 18	Section	
Personal Protective Equipment	228	Duty to use personal protective equipment
	229	Eye protection (compliance with standards)
	233	Footwear
	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
	261	Maintenance on elevated parts
	262	Starting engines
	263	Unattended equipment
	264	Lights
	265	Windows and windshields
	266	Other safety equipment
	267	Warning signal
	269	Guards and screens
	272	Falling objects protective structures
	273	Recertification after modification
	274	Fuel tank in cab
	275	Worker transportation
	279	Refuelling

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Part 24	Section	
Toilets and Washing Facilities	254	Restrictions by employer
	355	Drinking fluids
	356	Exception (temp. site)
	357	Toilet facilities

Part 25	Section	
Tools, Equipment and Machinery	362	Contact by clothing, etc.
	366	Preventing machine activation
	367	Operator responsibility
	368	Controls
	369	Immobilizing machinery

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
	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	