

Alberta Small Employer OHS Legislated Requirements

Industry Code: 42129
Industrial Plant Maintenance

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.

Contract plant maintenance contractors provide ongoing and everyday maintenance services and support to industrial and petro-chemical plants with respect to the general appearance and working order of the operation.

Task description	Type of equipment used and workers employed
<p>The continued operation of a plant eventually requires that overhauls be conducted on vital parts and processes in the plant as they wear down and become less efficient over time. This is known as a shutdown. A plant then goes through a major phase of rebuilding, refurbishing, replacing and reconstruction activity involving various trades.</p>	<p>Plant maintenance contractors use various construction and manufacturing equipment, trucks, materials.</p> <p>Workers of the plant maintenance company are diverse in trade and contribute to shutdown work. Workers include; millwrights, pipefitters, welders, and various other construction trades, technical staff, sales/estimators, and administrative staff.</p>

Relevant sections of OHS Legislation:

Occupational Health and Safety Act

- Section 3,4,5** Obligations of employers, workers, etc.
 - 40 Serious injuries and accidents
 - 53 Investigation of injuries and incident
 - 31 Existence of imminent danger
 - 37 Discriminatory action complaint
- 16-17 Joint Work Site Health and Safety Committees and Health and Safety Rep.

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 General Application	2.2 Designated person to prepare plan

**Alberta Small Employer
OHS Legislated Requirements**

**Industry Code: 42129
Industrial Plant Maintenance**

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

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

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

Part 5		Section
Confined Spaces	44	Code of practice
	45	Hazard assessment
	46	Training
	47	Entry permit system
	48	Safety and protection - generally
	49	Protection – hazardous substance and energy
	50	Unauthorized entry
	51	Traffic hazards
	52	Testing the atmosphere
	53	Venting and purging
	54	Inerting
	55	Emergency response
	56	Tending worker
57	Entry and exit	
58	Retaining records	

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

Part 8		Section
Entrances, Walkways,	119	Safe entry and exit
Stairways and Ladders	120	Doors

Alberta Small Employer OHS Legislated Requirements

Industry Code: 42129
Industrial Plant Maintenance

121	Walkways, runways and ramps
122	Stairways
123	Handrails on stairways
124	Ladders, restriction on work
126	Prohibition on painting
127	Use near energized electrical equipment
128	Ladders on extending booms
134	Constructed portable ladder
135	Manufactured portable ladder
136	Securing and positioning
137	Fall protection

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	Anchor strength – permanent
	152.1	Anchor strength – temporary
	152.2	Duty to use anchors
	152.3	Independence of anchors

Part 10	Section	
Fire and Explosion Hazards	161.1	Flammable or explosive atmospheres a hazard
	162	Prohibitions
	162.1	Classification of work sites
	163	Procedures and precautions
	164	Contaminated skin and clothing
	165	Protective procedures and precautions in hazardous locations
	166	Internal combustion engines
	167	Flare stacks, flare pits and flares
	168	Industrial furnaces and fired heaters
	169	Hot work
	170	Hot taps
	171	Compressed and liquefied gas
	171.1	Welding - general

Alberta Small Employer OHS Legislated Requirements

Industry Code: 42129
Industrial Plant Maintenance

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
	188	Restraining hoses and piping
	189	Securing equipment and materials

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
	215.4	Isolating piping
	215.5	Pigging and testing of pipelines

Part 16	Section	
Noise Exposure	218	Worker exposure to noise
	222	Hearing protection
Refer to schedule 3		

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
	244	Respiratory dangers
	245	Code of practice

Alberta Small Employer OHS Legislated Requirements

Industry Code: 42129
Industrial Plant Maintenance

Part 19	Section	
Powered Mobile	256	Operator Responsibilities
Equipment	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
	273	Recertification after modification
	274	Fuel tank in cab
	279	Refuelling

Part 22	Section	
Safeguards	310	Safeguards
	311	Tampering with safeguards
	312	No safeguards
	314	Covering openings
	315	Guardrails
	317	Machine failure
	318	Protection from falling objects
	321	Toe boards

Part 23	Section	
Scaffolds	323	CSA Standard applies
	324	Design
	325	Load
	326	Tagging requirements
	327	Vertical ladder on scaffold
	328	Working from a ladder
	329	Scaffold planks
	330	Scaffold platform
	331	Metal scaffolding
	334	Free-standing or rolling scaffolds
	338	Outrigger scaffolds
	346	Worker safety (elevated platforms and aerial devices)
	347	Standards
	348	Permanent suspension powered work platforms
	349	Fork-mounted work platforms
	Refer to schedule 6	

**Alberta Small Employer
OHS Legislated Requirements**

**Industry Code: 42129
Industrial Plant Maintenance**

Part 24		Section	
Toilets and Washing Facilities	354	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.	

Part 27		Section	
Violence and Harassment	389	Hazard assessment	
	390	Violence prevention plan	
	390.4	Harassment prevention plan	
	391	Training of workers	
	391.1	Investigation and reporting of incidents	

Part 28		Section	
Working Alone	393	Application	
	394	Precautions required (communication)	

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