

Alberta Small Employer OHS Legislated Requirements

Industry Code: 42130
Drilling – Water Well/Deep Core

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.

Water well drilling is performed for domestic, commercial and irrigation applications.

Task description	Type of equipment used and workers employed
<p>Deep core and/or diamond drilling is conducted for the purpose of obtaining deep core samples or penetrating hard rock masses. Deep core sampling is performed for engineering, mining, petroleum and construction industries to determine earth rock and mineral content in anticipation of future mining or construction projects such as building dams, bridges, etc.</p> <p>In water well drilling, after a hole is drilled, a casing or shaft is placed inside the hole. Pumps and necessary attachments may be installed. Servicing water wells involves cleaning pumps and pressure systems.</p>	<p>The equipment used by employers in this industry includes trucks, mounted drilling rigs, bits, pumps, air compressors, hand tools, welders, casing/pipe and filtering systems.</p> <p>Drilling rigs are generally truck mounted, but may also be track or skid mounted as well. The drill pipe, bits and tools are changed for the various types of drilling. For example, to penetrate hard rock formations, diamond drill bits are used.</p> <p>Workers include; field supervisors, drillers, equipment operators, labourers, equipment maintenance mechanics 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

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Occupational Health and Safety Code (2009)

Part 1 Section

Definitions and	1	Definitions
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

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 7 Section

Emergency	115	Emergency response plan
Preparedness and Response	116	Contents of plan

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
	191	Signallers
	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

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Part 15	Section	
Managing the Control of Hazardous Energy	212	Isolation
	213	Verifying Isolation
	214	Securing by Individual Workers
	215.3	Returning to operation
Part 16	Section	
Noise Exposure	218	Worker exposure to noise
	222	Hearing protection
	Refer to schedule 3	
Part 17	Section	
Overhead Power Lines	225	Safe limit of approach distances
	226	Transport loads, equipment and buildings
	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
	234	Head protection
	242	Limb and body 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
	268	Bulkheads
	269	Guards and screens
	273	Recertification after modification
	274	Fuel tank in cab
279	Refuelling	

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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
	311	Tampering with safeguards
	312	No safeguards

Part 24	Section	
Toilets and Washing	354	Restrictions by employer
Facilities	355	Drinking fluids
	357	Toilet facilities
	360	Supplies and waste receptacle
	361	Condition of facilities

Part 25	Section	
Tools, Equipment and Machinery	362	Contact by clothing, etc.
	365	Starting machinery
	367	Operator responsibilities
	368	Controls
	369	Immobilizing machinery

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

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

Part 32	Section	
Excavating and	441	Disturbing the ground
Tunnelling	447	Locating buried or concrete-embedded facilities
	448	Exposing buried facilities
	454	Power pole support