

Alberta Small Employer OHS Legislated Requirements

Industry Code: 51502
NDT Testing Incl. Visual Inspect

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.

This industry involves periodic non-destructive testing (NDT) and inspection procedures. The purpose is to ensure safety, quality and compliance control of critical pieces of tools, equipment and materials.

Task description	Type of equipment used and workers employed
<p>Non-destructive tests (NDT) provide a permanent record of compliance and early detection of defects in materials and workmanship. Often, this periodic inspection is conducted during various stages of the fabrication, construction or maintenance of components and facilities in the oil and gas, construction, pulp and paper, and power and utility sectors, on pipe, piping systems, towers, steel and concrete structures, etc. NDT methods include magna flux (magnetic particle), x-ray, gamma ray, radiographic or ultrasonic (sound waves).</p> <p>Activities may include surveillance and testing as a maintenance function on existing facilities. This may include evaluations of cranes and their supports in fabrication shops, and examinations and determinations on piping systems, vessels, valves and other ‘critical’ pieces of equipment or components in plants.</p> <p>Additionally, employers may develop, implement and administer quality control and verification programs including test witnessing and evaluations.</p>	<p>Equipment includes; hand tools, meters, gauges, and non-destructive exam equipment, pen, clipboard, radio/cell-phone, and trucks.</p> <p>Workers include; technical staff, engineers, 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 injury or incident
- 31 Right to refuse dangerous work
- 36 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 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 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
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

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Part 8	Section	
Entrances, Walkways, Stairways and Ladders	119	Safe entry and exit
	124	Restriction on use (Ladders)
	127	Use near energized electrical equipment
	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 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

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 18	Section	
Personal Protective Equipment	228	Duty to use personal protective equipment
	229	compliance with standards (Eye protection)
	233	Footwear
	234	Head protection
	242	Limb and body protection
	243	Skin protection
	244	Respiratory dangers
	245	Code of practice

Part 20	Section	
Radiation Exposure	291	Prevention and protection

Part 24	Section	
Toilets and Washing Facilities	354	Restrictions by employer
	355	Drinking fluids
	356	Exception (temp. site)
	357	Toilet facilities

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 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