

Alberta Small Employer OHS Legislated Requirements

Industry Code: 42106

Erect – Structural Steel

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.

Task description	Type of equipment used and workers employed
<p>Lifting and placement of structural steel beams or girders, as the structural support or 'frame' of a commercial, institutional or industrial construction project.</p> <p>Additional activities include trucking the material to the project, and the necessary bolting or welding the steel into place.</p>	<p>Equipment includes; mobile cranes, elevated work platforms, welder units, compressed cutting gases, hand tools, power grinders, portable ladders.</p> <p>Workers include; engineers, ironworkers, laborers, crane operators, transport drivers, 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

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 |
|-------------------------------------|-----|-----------------------------------|

Part 2 Section

- | | | |
|--|-------------|---|
| Hazard Assessment, Elimination and Control | 7
8
9 | Hazard assessment
Worker participation
Hazard elimination and control |
|--|-------------|---|

Part 3 Section

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

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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

Part 8	Section	
Entrances, Walkways, Stairways and Ladders	119	Safe entry and exit
	120	Doors
	121	Walkways, runways and ramps
	122	Stairways
	123	Handrails on stairways
	124	Ladders, restriction on use
	126	Prohibition on painting
	127	Use near energized electrical equipment
	128	Portable ladders, prohibition

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	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
	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	

Part 12	Section	
General Safety Precautions	185	Housekeeping
	186	Lighting
	189	Securing equipment and materials
	190	Skeleton structures
	191	Signallers
	194	Vehicle traffic control

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

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
	243	Skin protection
	244	Respiratory dangers
	245	Code of practice

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
	279	Refuelling

Part 21	Section	
Rigging	292	Breaking strength
	292.1	Safety factors
	293	Load ratings
	294	Inspection
	295	Prohibition
	296	Rigging protection

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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 23	Section
	346 Worker safety (elevated platforms and aerial devices)
	347 Standards
	349 Fork-mounted work platforms
	Refer to schedule 6

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.
	375 Grinders
	381 Cut-off saws

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

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

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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