

## Alberta Small Employer OHS Legislated Requirements

**Industry Code: 42156**  
**Erect/Dismantle Storage Tanks**

**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.

Businesses in this industry erect or dismantle petroleum or water storage tanks most often in the oil and gas sector.

| Task description   | Type of equipment used and workers employed   |
|--|---|
| <p>Some site grading and levelling is required prior to installation, and incidental concrete work for the base.</p> <p>This industry includes levelling activity required after a tank settles.</p> <p>The erection or removal of these tanks is done with lifting equipment such as cranes, and other equipment required such as welders or cutting torches.</p> | <p>Equipment includes; cranes, scaffolding, welders, cutting torches, hand tools, trucks</p> <p>Workers include; ironworkers, welders, laborers, technicians, sales/estimators, administration staff.</p> |

Relevant sections of OHS Legislation:

| Occupational Health and Safety Act |  |
|------------------------------------|--|
| <b>Section</b>                     | <ul style="list-style-type: none"> <li>2 Obligations of employers, workers, etc.</li> <li>18 Serious injuries and accidents</li> <li>19 Investigation of accidents</li> <li>35 Existence of imminent danger</li> <li>37 Disciplinary action complaint</li> </ul> |

| Occupational Health and Safety Regulation |  |
|---|--|
| <b>Section</b>                            | <ul style="list-style-type: none"> <li>7 Availability of specifications</li> <li>12 Equipment</li> <li>13 General protection of workers</li> <li>14 Duties of workers</li> <li>15 Safety training</li> </ul> |

| 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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| <b>Part 3</b>                        | <b>Section</b> |   |
|--------------------------------------|----------------|---|
| Specifications and<br>Certifications | 12             | Following specifications                                  |
|                                      | 13             | Manufacturer's and Professional Engineer's specifications |
|                                      | 14             | Certification by a professional engineer                  |
|                                      | 15             | Approved equipment  |

| <b>Part 4</b>  | <b>Section</b> |  |
|--|----------------|--|
| Chemical Hazards,<br>Biological Hazards<br>and Harmful<br>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                 |
| <b>Refer to schedule 1</b>   |                |  |

| <b>Part 5</b>   | <b>Section</b>    |   |
|-----------------|-------------------|---|
| 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 |   |

| <b>Part 6</b>                           | <b>Section</b> |                               |
|---|----------------|-------------------------------|
| Cranes, Hoists and<br>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        |

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

| <b>Part 7</b>                | <b>Section</b> |                               |
|------------------------------|----------------|-------------------------------|
| Emergency                    | 115            | Emergency response plan       |
| Preparedness and<br>Response | 116            | Contents of plan              |
|                              | 117            | Rescue and evacuation workers |
|                              | 118            | Equipment                     |

| <b>Part 8</b>                                 | <b>Section</b> |   |
|---|----------------|---|
| Entrances, Walkways,<br>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 work            |
|   | 126            | Prohibition on painting                 |
|   | 127            | Use near energized electrical equipment |
|   | 128            | Portable ladders, prohibition           |
|   | 134            | Constructed portable ladder             |
|   | 135            | Manufactured portable ladder            |
|   | 136            | Securing and positioning                |
|   | 137            | Fall protection                         |

| <b>Part 9</b>   | <b>Section</b> |                                       |
|-----------------|----------------|---------------------------------------|
| 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                  |

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|  |       |  |
|--|-------|--|
|  | 151   | Clearance, maximum arresting force and swing |
|  | 152.1 | Anchor strength - temporary                  |
|  | 152.1 | Anchor strength - permanent                  |
|  | 152.2 | Duty to use anchors                          |
|  | 152.3 | Independence of anchors                      |

| <b>Part 10</b>     | <b>Section</b> |   |
|--------------------|----------------|---|
| Fire and Explosion | 161.1          | Flammable or explosive atmospheres a hazard |
| Hazards            | 162            | Prohibitions                                |
|                    | 164            | Contaminated skin and clothing              |
|                    | 169            | Hot work                                    |
|                    | 171            | Compressed and liquefied gas                |

| <b>Part 11</b> | <b>Section</b>             |   |
|----------------|----------------------------|---|
| 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                 |
|                | <b>Refer to Schedule 2</b> |   |

| <b>Part 12</b> | <b>Section</b> |                                  |
|----------------|----------------|----------------------------------|
| General Safety | 185            | Housekeeping                     |
| Precautions    | 186            | Lighting                         |
|                | 189            | Securing equipment and materials |
|                | 190            | Skeleton structures              |
|                | 191            | Signallers                       |

| <b>Part 14</b>       | <b>Section</b> |                                    |
|----------------------|----------------|------------------------------------|
| Lifting and Handling | 208            | Equipment                          |
| Loads                | 209            | Adapting to heavy or awkward loads |
|                      | 210            | Assessing manual handling hazards  |

| <b>Part 17</b>       | <b>Section</b>             |                                  |
|----------------------|----------------------------|----------------------------------|
| Overhead Power Lines | 225                        | Safe limit of approach distances |
|                      | <b>Refer to schedule 4</b> |                                  |

| <b>Part 18</b>      | <b>Section</b> |  |
|---------------------|----------------|--|
| Personal Protective | 228            | Duty to use personal protective equipment  |
| Equipment           | 229            | Eye protection (compliance with standards) |
|                     | 233            | Footwear                                   |
|                     | 234            | Head protection                            |
|                     | 242            | Limb and body protection                   |

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| <b>Part 19</b>              | <b>Section</b> |  |
|-----------------------------|----------------|--|
| Powered Mobile<br>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   |
|                             | 273            | Recertification after modification                                       |
|                             | 274            | Fuel tank in cab   |
|                             | 279            | Refuelling   |
|                             | 290.1          | Licensing and mechanical inspection (personal vehicle for work purposes) |

| <b>Part 21</b> | <b>Section</b> |                               |
|----------------|----------------|-------------------------------|
| 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                 |

| <b>Part 23</b> | <b>Section</b> |                             |
|----------------|----------------|-----------------------------|
| Scaffolds      | 323            | CSA Standard applies        |
|                | 324            | Design                      |
|                | 325            | Load                        |
|                | 326            | Tagging requirements        |
|                | 327            | Vertical ladder on scaffold |

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|                            |   |
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| 328                        | Working from a ladder                                 |
| 329                        | Scaffold planks                                       |
| 330                        | Scaffold platform                                     |
| 331                        | Metal scaffolding                                     |
| 332                        | Bracket scaffolds                                     |
| 333                        | Double pole scaffolds                                 |
| 334                        | Free-standing or rolling scaffolds                    |
| 340                        | Single-pole scaffolds                                 |
| 341                        | Suspended scaffolds                                   |
| 346                        | Worker safety (elevated platforms and aerial devices) |
| 347                        | Standards   |
| 349                        | Fork-mounted work platforms                           |
| 352                        | Temporary supporting structures                       |
| <b>Refer to schedule 6</b> |   |

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

| <b>Part 25</b>                 | <b>Section</b> |                           |
|--------------------------------|----------------|---------------------------|
| Tools, Equipment and Machinery | 362            | Contact by clothing, etc. |
|                                | 375            | Grinders                  |
|                                | 381            | Cut-off saws              |

| <b>Part 27</b> | <b>Section</b> |                        |
|----------------|----------------|------------------------|
| Violence       | 389            | Hazard assessment      |
|                | 390            | Policy and procedures  |
|                | 391            | Instruction of workers |
|                | 392            | Response to incidents  |

| <b>Part 28</b> | <b>Section</b> |                                      |
|----------------|----------------|--------------------------------------|
| Working Alone  | 393            | Application                          |
|                | 394            | Precautions required (communication) |

| <b>Part 29</b>   | <b>Section</b> |  |
|--|----------------|--|
| 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 |