

## Alberta Small Employer OHS Legislated Requirements

**Industry Code: 40901**  
**Power Line – Construct/Remove**

**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.

Employers in this industry use a variety of mobile equipment and manpower to supply, install and maintain complete power transmission systems (not generating systems) of towers and lines for utility companies.

| Task description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Type of equipment used and workers employed                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Businesses in this industry are regularly contracted by the utility companies which generate the power.</p> <p>This work is most often conducted in remote areas. Land is cleared of brush and trees, holes are dug, foundations of concrete poured, poles or towers erected, lines are spooled out and strung using a winch attached to a tractor or truck. Lines may be spliced or repaired manually by linemen who climb the poles or are mechanically lifted to the height required.</p> | <p>Equipment utilized in this industry is varied: mobile equipment, cranes, trucks, welders, spooling equipment, line splicers, etc.</p> <p>Workers include; equipment operators, designers, engineers, technical staff, labourers, warehouse, yard staff, sales/estimators, and office/administrative staff.</p> |

Relevant sections of OHS Legislation:

| Occupational Health and Safety Act                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Section 3,4,5</b> Obligations of employers, workers, etc.</p> <ul style="list-style-type: none"> <li>40 Serious injuries and accidents</li> <li>53 Investigation of injuries and incident</li> <li>31 Existence of imminent danger</li> <li>37 Discriminatory action complaint</li> </ul> <p>16-17 Joint Work Site Health and Safety Committees and Health and Safety Rep.</p> |

| Occupational Health and Safety Regulation                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Section 7</b> Availability of specifications</p> <ul style="list-style-type: none"> <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 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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| Part 3                               | Section |                                                           |
|--------------------------------------|---------|-----------------------------------------------------------|
| Specifications and<br>Certifications | 12      | Following specifications                                  |
|                                      | 13      | Manufacturer’s and Professional Engineer’s specifications |
|                                      | 14      | Certification by a professional engineer                  |
|                                      | 15      | Approved equipment                                        |

| Part 6                                  | Section |                                |
|-----------------------------------------|---------|--------------------------------|
| 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         |
|                                         | 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<br>Response | 116     | Contents of plan              |
|                              | 117     | Rescue and evacuation workers |
|                              | 118     | Equipment                     |

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| <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                         |
|                 | 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                      |
|                 | 160            | Work positioning                             |

| <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 |
|                | 194            | Vehicle traffic control          |

| <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 15</b>                              | <b>Section</b> |                                |
|---------------------------------------------|----------------|--------------------------------|
| Managing the Control<br>of Hazardous Energy | 212            | Isolation                      |
|                                             | 213            | Verifying isolation            |
|                                             | 214            | Securing by individual workers |
|                                             | 215.3          | Returning to operation         |

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| <b>Part 18</b>                | <b>Section</b> |                                            |
|-------------------------------|----------------|--------------------------------------------|
| 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                            |

| <b>Part 19</b>           | <b>Section</b> |                            |
|--------------------------|----------------|----------------------------|
| Powered Mobile Equipment | 256            | Operator Responsibilities  |
|                          | 257            | Visual inspection          |
|                          | 258            | Dangerous movement         |
|                          | 260            | Inspection and maintenance |
|                          | 262            | Starting engines           |
|                          | 263            | Unattended equipment       |
|                          | 264            | Lights                     |
|                          | 265            | Windows and windshields    |
|                          | 266            | Other safety equipment     |
|                          | 279            | Refuelling                 |

| <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  |                               |

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| Part 22    | Section |                           |
|------------|---------|---------------------------|
| Safeguards | 310     | Safeguards                |
|            | 311     | Tampering with safeguards |
|            | 312     | No safeguards             |

| Part 25                        | Section |                           |
|--------------------------------|---------|---------------------------|
| Tools, Equipment and Machinery | 362     | Contact by clothing, etc. |
|                                | 375     | Grinders                  |
|                                | 377     | Circular Saw Blades       |

| 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 |

| Part 32                    | Section |                                                 |
|----------------------------|---------|-------------------------------------------------|
| Excavating and Tunnelling  | 441     | Disturbing the ground                           |
|                            | 442     | Classification of soil type                     |
|                            | 443     | Soil stabilization                              |
|                            | 444     | Marking and excavation                          |
|                            | 445     | Water hazard                                    |
|                            | 446     | Worker access                                   |
|                            | 447     | Locating buried or concrete-embedded facilities |
|                            | 448     | Exposing buried facilities                      |
|                            | 450     | Methods of protection                           |
|                            | 451     | Cutting back walls                              |
|                            | 452     | Loose material                                  |
|                            | 453     | Spoil piles                                     |
|                            | 454     | Power pole support                              |
|                            | 455     | Safe entry and exit                             |
|                            | 459     | Access for powered mobile equipment             |
| <b>Refer to Schedule 9</b> |         |                                                 |

| Part 40                      | Section |                                 |
|------------------------------|---------|---------------------------------|
| Utility workers - Electrical | 797     | Application                     |
|                              | 798     | Application                     |
|                              | 799     | Protective devices or equipment |

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|     |                                                                                   |
|-----|-----------------------------------------------------------------------------------|
| 800 | Safe work practices for electric utilities and rural electrification associations |
| 802 | Coordinated work                                                                  |
| 803 | Communication lines, cables                                                       |
| 804 | Work on energized electrical equipment or lines (above 750 volts)                 |