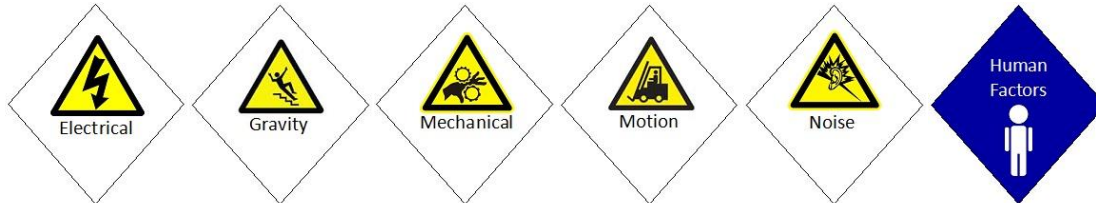


**PURPOSE/APPLICATION**

To provide guidance on the safe installation of tubing and fittings.

**COMMON HAZARD SOURCES AND CONCERNS****PPE**

- Strike Minimum Requirements (Hard Hat, Safety Glasses, Safety Footwear, Gloves, Appropriate Protective Clothing)
- Specialty PPE as per HIAC (Goggles for Drilling, Hearing Protection, Reflective Coveralls, Face Shield, Fall Protection Equipment, FRC)

**TRAINING**

- Strike Minimum Training Requirements
- Indentured in Industrial Instrumentation Apprenticeship, Technologist or Journey Person.
- Swagelok Certification

**TOOLS/EQUIPMENT**

The following Equipment may be required

- Tube Bender
- Tube Cutter
- Reamer
- Ladder
- Appropriate hand and power tools

**PRE-JOB ACTIVITIES**

1. Obtain Safe Work Permit (where required)
2. Inspect all tools and equipment
3. Inspect tubing and fittings for manufacturers defects
4. Inspect Instrumentation device you will be attaching tubing too.
5. Assess work following HIAC methodology
6. Review tubing installation procedure

#	Job Steps	Hazards and Concerns	Control Measures
1.	Area Assessment	<ul style="list-style-type: none"> <li>▪ Other Disciplines</li> <li>▪ Area Congestion</li> <li>▪ New or existing facility</li> </ul>	<ul style="list-style-type: none"> <li>▪ Review work scope with all other workers involved</li> <li>▪ Verify LOTO policy and procedures as required for existing facility</li> <li>▪ Perform all LOTO in accordance with Strike’s COP 05</li> </ul>
2.	Material Staging	<ul style="list-style-type: none"> <li>▪ Ergonomics - Body Positioning and Manual Lifting</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work in teams as required</li> <li>▪ Stretching and warm up prior to starting work</li> <li>▪ Position workers to avoid becoming pinned or trapped if material shifts</li> </ul>
3.	Install Fittings	<ul style="list-style-type: none"> <li>▪ Gravity – falling equipment, ground conditions</li> <li>▪ Line of Fire – Pinch Points</li> <li>▪ Procedures/Standards – Followed and Reviewed</li> </ul>	<ul style="list-style-type: none"> <li>▪ Watch hand placement, keep hands clear of crush and pinch points Fall protection plan as required by COP 06 Fall Protection</li> <li>▪ Flag off areas as required to protect other workers in the area</li> </ul>
4.	Install Tubing	<ul style="list-style-type: none"> <li>▪ Gravity – falling equipment, ground conditions</li> <li>▪ Line of Fire – Pinch Points</li> <li>▪ Procedures/Standards – Followed and Reviewed</li> <li>▪ Ergonomics – Bending, Twisting, Repetitive Work</li> </ul>	<ul style="list-style-type: none"> <li>▪ Watch hand placement, keep hands clear of crush and pinch points</li> <li>▪ Review Installation Procedures</li> <li>▪ Take micro-breaks when needed</li> <li>▪ Stretch as needed</li> </ul>
5.	Clean Work Area	<ul style="list-style-type: none"> <li>▪ Motion - Tripping Hazards and Slippery Ground Conditions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Ensure proper housekeeping procedures are followed</li> <li>▪ Ensure you are aware of ground conditions</li> </ul>

**Additional Precautions**

- Traffic on work site
- Concurrent operations

**REFERENCES/ADDITIONAL INFORMATION**

Strike Safe Work Practice

- SWP 18 – Tools/Equipment/Machinery
- SWP 19 – House Keeping
- SWP 22 – Material Handling
- SWP 25 – Ladders
- SWP 27 – Safe Work Permit
- COP 05 – Lock Out – Tag Out
- COP 06 – Fall Protection



**REGULATIONS:**

Saskatchewan OH&S Regulation and Code

- Part 7 Personal Protective Equipment
- Part 11 Powered Mobile Equipment

Alberta OH&S Codes

- Part 2 Hazard Assessment, Elimination and Control
- Part 9 Fall Protection
- Part 15 Managing the control of hazardous energy
- Part 18 Personal Protective Equipment
- Part 19 Powered mobile equipment

Manitoba OH&S Code

- Part 4.5 Slipping and Tripping Hazard
- Part 38 Electrical Safety

BC OHS Regulations

- Part 11 Fall Protection
- Part 13 Ladders, Scaffolds and Temporary Work Platforms
- Part 15 Rigging
- Part 16 Mobile Equipment
- Part 19 Electrical Safety

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Approved by:	1.	<u>HSE Committee</u>			Date:	<u>February 2021</u>

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