

PURPOSE/APPLICATION

Installing yard lighting involves pulling the wires through the lamp post on the ground then lifting the lamp post into position, lowering it down at the hinge, adding the lights, winching it back into position and testing it. It is imperative to ensure no wires have been pinched during the process as this can pose a serious risk of fire.

COMMON HAZARD SOURCES AND CONCERNS



PPE

- Strike Minimum Requirements (Hard Hat, Safety Glasses, Safety Footwear, Appropriate Protective Clothing)
- Other PPE as per HIAC (High Visibility Vest, Fall Protection Equipment)

TRAINING

- Strike Orientation
- Fall Protection Training (where required)
- Spotter Training (where required)
- Operator Training and Competency (where required)

TOOLS/EQUIPMENT

- Mobile Lifting Equipment (Picket, Telehandler, etc.)
- Hand and Power Tools
- Fish Tape
- Ladder
- Flagging
- Tag Line

PRE-JOB ACTIVITIES

1. Assess work as per HIAC methodology
2. Flag work area where required and ensure all other workers are aware of the scope of work and the hazards associated with it



#	Job Steps	Hazards	Control Measures
1.	Layout material	<ul style="list-style-type: none"> ▪ Gravity - Frayed straps, Heavy loads, Tripping hazards ▪ Motion - Pinch points, Vehicle and equipment traffic in the area 	<ul style="list-style-type: none"> ▪ Inspect all straps ▪ Follow proper lifting techniques ▪ Maintain housekeeping in work area ▪ Flag off the work area are required
2.	Pull wire through pole	<ul style="list-style-type: none"> ▪ Motion - Sharp edges ▪ Human Factors – Overexertion, Fatigue ▪ Electrical - Damage to wire at break point 	<ul style="list-style-type: none"> ▪ Wear gloves ▪ Follow proper technique ▪ Verify all wires pass through the collar at the break point
3.	Install fixture bull horns	<ul style="list-style-type: none"> ▪ Motion - Pinch points ▪ Human Factors - Over exertion 	<ul style="list-style-type: none"> ▪ Identify pinch points ▪ Wear gloves whenever possible ▪ Use two people to lift
4.	Isolate	<ul style="list-style-type: none"> ▪ Electrical - Electrical energy 	<ul style="list-style-type: none"> ▪ Lock out all existing facilities following COP 05 Lock Out/Tag Out
5.	Use collar at break Point	<ul style="list-style-type: none"> ▪ Flammable/Electrical - Damaged wire resulting in possible electrical fire 	<ul style="list-style-type: none"> ▪ It is important that the wires are not damaged at the break point, always use the collar and check wire after installation
6.	Put sling on pole	<ul style="list-style-type: none"> ▪ Gravity - Improper sling placement on pole ▪ Motion - Pinch points, Damage to the rigging 	<ul style="list-style-type: none"> ▪ Inspect all rigging prior to use ▪ Maintain open communication with any other workers in the area ▪ Check the sling position to ensure it is in the correct location
7.	Use mobile lifting equipment to stand pole	<ul style="list-style-type: none"> ▪ Gravity – Falling, material ▪ Motion - Moving material, Crush points 	<ul style="list-style-type: none"> ▪ Ensure everyone in the working area is aware of the travel path of the load ▪ Verify all operators are trained and deemed competent ▪ Ensure a competent spotter trained is assigned and stays in constant view of the operator ▪ Use Tag lines to guide pole in place



SAFE JOB PROCEDURE

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8.	Bolt down light stand	<ul style="list-style-type: none"> Gravity - Falling objects 	<ul style="list-style-type: none"> Ensure load is stable before entering working area Maintain communication with picker operator Make sure that all nuts have been torqued as per manufacturer's specifications
9.	Break hinge and lower the pole to the ground	<ul style="list-style-type: none"> Gravity - Falling objects Motion/Flammable - Breaking or pinching the wires inside pole Electrical - Overhead power lines 	<ul style="list-style-type: none"> Ensure decent path is clear and all workers are aware of the hazard Ensure that the winch is working properly before proceeding Ensure the PVC is cut down to the proper height
10.	Install fixture and terminate lights	<ul style="list-style-type: none"> Electrical - Electrical shock 	<ul style="list-style-type: none"> Lock out all existing facilities following COP 05 Lock Out/Tag Out Always test the wires to ensure they are not live Ensure all workers in work area are aware of all electrical hazards Verify all fixtures against drawings and code to ensure proper rating
11.	Remove Sling	<ul style="list-style-type: none"> Gravity -Falling objects 	<ul style="list-style-type: none"> Ensure there is no weight on the sling before removing
12.	Winch up to standing position	<ul style="list-style-type: none"> Gravity - Falling objects Electrical - Electrical hazards caused by damage to wire inside the pole Motion - Pinch points Verify Winch is installed according to manufacturer's specifications 	<ul style="list-style-type: none"> Ensure all workers in the area are warned of the hazards Test each phase to ground and phase to phase for short circuit
13.	Terminate Feeder Panel/Base	<ul style="list-style-type: none"> Electrical – Electricity 	<ul style="list-style-type: none"> Lock out all existing facilities following COP 05 Lock Out/Tag Out
14.	Check all rating before installing	<ul style="list-style-type: none"> Electrical - Electricity 	<ul style="list-style-type: none"> Check all ratings against drawings and applicable electrical codes
15.	Apply Lamicooids/Cable Tags	<ul style="list-style-type: none"> Motion – Sharp Edges 	<ul style="list-style-type: none"> Wear task appropriate gloves



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16.	Test Light/Photocell	<ul style="list-style-type: none">▪ Electrical - Electricity	<ul style="list-style-type: none">▪ Complete work according to COP 05 Lock Out/Tag Out
17.	Clean Work Area	<ul style="list-style-type: none">▪ Motion/Gravity - Tripping Hazards and Slippery Ground Conditions	<ul style="list-style-type: none">▪ Ensure proper housekeeping procedures are followed▪ Ensure you are aware of ground conditions

REFERENCES/ADDITIONAL INFORMATION

Strike Safe Work Procedure

- SWP – 34 Cranes Hoists and Lifting Devices
- SWP – 18 Tools / Equipment / Machinery
- SWP – 19 Housekeeping
- SWP – 22 Material Handling
- SWP – 32 Lockout / Tag Out
- SWP – 44 Mechanical Mobile Equipment Operation
- SWP – 54 Rigging

REGULATIONS

Alberta OH&S Code

- Part 14 – Lifting and handling loads
- Part 15 – Managing the control of hazardous energy
- Part 19 – Powered mobile equipment
- Part 21 – Rigging

Manitoba Code

- Part 16 – Machines, Tools and Robots
- Part 22 – Powered Mobile Equipment
- Part 23 – Cranes and Hoists
- Part 38 – Electrical Safety

Saskatchewan

- Part 11 – Powered Mobile Equipment
- Part 14 – Rigging
- Part 16 – Entrances, Exits and Ladders
- Part 30 – Additional Protection for Electrical Workers

BC OHS Regulations

- Part 11 Fall Protection
- Part 13 Ladders, Scaffolds and Temporary Work Platforms



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- Part 15 Rigging
- Part 16 Mobile Equipment
- Part 19 Electrical Safety

Developed by:	1.	<u>Trent Goertz</u>	2.	<u>Ryan Morse</u>	Date: <u>Nov 18 2011</u>
	3.	<u>Casey MacInnis</u>	4.	<u>Derek Nolet</u>	
	5.	<u>Ann Fulkert</u>	6.	<u>Justin Sluchinski</u>	
	7.	<u>Dustin Moore</u>	8.	<u>Rob Webster</u>	
Revised by:	1.	<u>Chad Sewall</u>	2.	<u>Harley Whitty</u>	Date: <u>June 3, 2020</u>
	3.	<u>Blake Pawsey</u>	4.	<u>Harold Nikipelo</u>	
Approved by:	1.	<u>HSE Committee</u>			Date: <u>February 2021</u>
