



# JOB AID HAZARD AWARENESS INFO

## CRANES

A lifting device is used to raise or lower any material or object. It includes its rails and other supports but does not include a device to which the Elevating Devices Act applies. An overhead crane is a lifting device. Bridge cranes, gantry cranes, semi-gantry cranes and jib cranes are the four basic types of overhead cranes.

The crane operator is able to move equipment and materials to and from around a large area. Cranes come with a variety of weight capacities. The crane operator uses hoists/slings to rig the items to be moved safely. Using a pendant, they are able to control movement of the load up and across the area.

### Hazards Involved/Arise

- Falling/swinging debris/load striking workers or equipment
- Manual handling of drive shafts and machine components
- Pinch points from closing guarding
- Contact with electricity lines
- Falls from heights
- Entanglement of clothing, hair, hands or feet
- Entrapment or crushing between shaft/lifted object and stationary object



### People Affected

- Operators (primarily shop workers)
- Pedestrians or others working in the area
- Maintenance personnel

### Existing Controls

- Documented installation, inspection and preventive maintenance by competent personnel
- Defective equipment locked/tagged out
- Risk assessments
- Safeguarded as per CSA 432: Safeguarding of Machinery
- Emergency stop
- Training regarding safe operation, hazards, and required Personal Protective Equipment (PPE)
- Not wearing loose clothing/accessories
- Refer to CSA B167 – Overhead Travelling Cranes – design, inspection, testing, maintenance and safe operation, for more information

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Content developed by WSPS Advisory Committees

330-AAQ-05-IMDO | REVISED JUNE 2017

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