

## Planning and performing a critical lift

A critical lift is any of the following:

- A lift by a mobile crane or boom truck that exceeds 90% of its rated capacity and more than 50% of its maximum load radius.
- A tandem lift if the load on any one crane, hoist, or other piece of powered lifting equipment exceeds 75% of the rated capacity.
- A tandem lift involving the use of more than two cranes, hoists, or other pieces of powered lifting equipment at the same time.
- A lift of a person in a work platform suspended from, or attached to, a crane or hoist.
- A lift in which the centre of gravity of the load changes.
- A lift in which the length of one or more sling legs changes during a lift.
- A lift by a crane, boom truck or hoist supported on a floating base that exceeds 90% of the rated capacity of the lifting system.
- A lift of a load over or between energized power lines.
- A lift of a submerged load.

### Planning a critical lift

Under section [14.42.1](#) of the BC OHS Regulation, a written lift plan must be prepared for every critical lift. The plan must be available at the worksite during the lift.

Proper planning for a critical lift includes:

- Safely placing equipment and materials.
- Ensuring effective communication between everyone involved in the lift.

- Ensuring site safety and security.
- Implementing procedures to cover site-specific risks.

Other planning steps include:

- Checking for overhead obstructions such as power lines, trees, structures, etc.
- Being aware of the swing radius of the crane.
- Keeping clear of the zone set out by barricades and signs.
- Knowing exactly where the load is to be set down and clearly defining the travel path.
- Ensuring everyone knows the sequence of lifting events.

### Safe work practices

Employers must ensure workers who perform critical lifts are properly trained on the work scope, hazards, and safety procedures involved in the task.

Workers involved in a critical lift should :

- Validate the desired rigging, angles of equipment and lifting capacities.
- Inspect all rigging equipment before using it.
- Not distract the crane operator during the lift.
- Stay out of the area within the swing radius of the crane.
- Use taglines or push sticks to ensure sufficient space between the load and any obstacles.
- Lift and lower the load slowly to avoid jerking it.
- Never leave a load suspended in the air unattended.
- Properly store all rigging after lifting operations to prevent damage.

**Project:** .....

Address: .....

Employer: .....

Supervisor: .....

Date: .....

Time: .....

Shift: .....

Number in crew: .....

Number attending: .....

**Other safety concerns or suggestions:** .....

.....  
 .....  
 .....

**Record of those attending:**

Name: (please print)	Signature:	Company:
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		

Manager's remarks: .....

Manager: .....

(Signature)

Supervisor: .....

(Signature)

For more information on health and safety requirements for crane operations in B.C., refer to the Workers Compensation Act and the OHS Regulation on [worksafabc.com](http://worksafabc.com).