



LAUSD - OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY

JOB SAFETY ANALYSIS OPERATING A BOOM LIFT



General Precautions: There should always be two people working together when operating mechanical lifts. Harness, hard hat, eye protection should be worn at all times. Check the bubble level to ensure ground is level. Check weather conditions before use. Inspect the equipment against the checklist daily, per job. Make sure the work area is demarcated and barricaded. The operations manual must be on the equipment at all times. Do not use less than 10 feet away from electrical power lines.

Note: It is important that one receives all the appropriate training required for each task before any work can be done.

Required Personal Protective Equipment (PPE)*

Hard hat, eye protection, harness, safety vest and work boots

Required Training:

Operation of aerial lift, electrical safety, lockout/tagout, and fall protection.

*Additional training and PPE may be required depending on the scope of the activities to be performed with piece of equipment, including but not limited to eye and hand protection or electrical safety. All work areas must be demarcated and barricaded.

TASK	HAZARDS	CONTROLS
1. Operating the lift	Struck by falling objects Crushing	Barricade work area and place warning signs. Clear all personnel from area before raising, lowering or slewing the platform. Ensure ample clearance above the platform to cater for any unexpected amplified upward platform movement. Keep body parts away from moving parts of the lift.

		<p>Tipping or rolling over</p>	<p>Inspect the entire work area and all ground conditions where the machine will travel during operation. Ensure load on platform is secure and evenly distributed. Do not exceed Manufacturer's rated capacity of lift. Drive only on ground capable of supporting its weight (no potholes, floor hole covers or soft spots.) Do not perform work that will subject the boom to a side force (i.e. pushing/pulling on a fixed structure when working from the platform).</p>
		<p>Falls</p>	<p>Remain within the confines of the lift platform when operating. Ensure sufficient clearance between the platform and overhead obstructions. Never use ladders or boxes to gain extra height. Never stand on handrails to gain extra height. Remain within the confines of the lift platform when operating. Attach personal fall harness with lanyard to the designated anchor point. Never enter or exit the platform when elevated. Do not operate the lift in unfavorable weather conditions such as high winds, rain, snow, etc.</p>
		<p>Driving into bystanders/other workers</p>	<p>Ensure all safety devices such as audible and visual alarms are operating. Clearly define the work area. Keep all personnel clear. Avoid congested work areas. Two (2) competent operators must be present at all times during operations of the lift; one as a lift operator and the other as a spotter.</p>
		<p>Electrocution</p>	<p>Maintain mandatory clearances from overhead power lines. Barricade work areas. Insulate power lines. Look up and live (before and during operation).</p>
		<p>Electric shock</p>	<p>Inspect all power and extension cords. Ensure cords are protected from falling objects, pinch points, pedestrians or other traffic. Do not pull cord around sharp edges or corners. Where equipped, extension cord must be plugged into the plug located at the base of the machine and then tools can run from the power outlet on the platform. Do not overload electrical circuit. Use GFCI protection.</p>

Slips, trips and falls

Ensure floor of platform is kept clean, in good condition and intact.
 Avoid oil, grease and mud on boots on platform.
 Minimize the number of tools and supplies on the platform.
 Always maintain a good foot and hand hold when entering or exiting the platform.

Respiratory hazard

Ensure that the lift is used in a well ventilated area.
 If working in poorly ventilated areas monitor exhaust fumes at regular intervals.

I have received, read and understood the contents of this JSA and have also acquired the aforementioned required training.

NAME:	
DEPARTMENT:	
JOB TITLE:	
EMPLOYEE ID:	
DATE:	
SIGNATURE:	

For more information about this JSA, contact the *Office of Environment, Health and Safety* at LAUSD, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA-90017
 213-241-3199 • <http://achieve.lausd.net/oehs>

Boom Lift Inspection Checklist					
Operator's Name:			Date of Inspection:		
Pre-use Inspection	OK	Repairs Needed	Job Site Inspection	OK	N/A
Ensure that operator's manual is on the lift			Check Ground Condition – uneven, holes, soft soil		
Check lift for visible damage			Check Slope		
Check for hydraulic leaks			Look for overhead obstructions		
Inspect belts and hoses			Observe environmental conditions- windy or unsafe weather (wind shall not exceed 20 mph)		
Inspect pins, banjo bolts and connections			Check surroundings for hazardous areas		
Inspect tires			Look for pedestrian or vehicular traffic		
Inspect limit switches			When necessary, define the work zone with barriers and restrict access		
Inspect platform and guardrails			Walk the path of travel the lift is going to move on		
Read the placard and decals and ensure that they are present and legible			Electrical hazards present		
Verify platform load is within the rated capacity					
Inspect the lift pothole mechanism					
Function Test	OK	Repairs Needed	Vehicle Components	OK	Repairs Needed
Position machine on a firm surface			Oil Level		
Deploy or position the outriggers			Fuel Level / Battery Charge		
Check the interlock display light and confirm they are all on			Coolant Level (Do not check while engine is hot)		
Confirm the machine is level by using the bubble level			Tire Pressure / Condition		
Push the e-stop button to the off position			Horn		
Use the drive function control – It shall not function			Gauges		
Use the lift function control – It shall not function			Brakes		
Pull the e-stop button to the on position			Lights		
Test the tilt alarm			Steering		
Check the drive function: forward and reverse			Back-up Alarm		
Check the lift function: up and down			Warning Lights		
			Battery Fluid Level		