Aerial Lift Truck -

Template Program for Public Works

The following Aerial Lift Truck template program has been developed by the Massachusetts Department of Labor Standards to assist municipal, county, and state agencies prevent work-related injury. The template is developed to comply with the OSHA regulation on Aerial Lift Trucks, 29 CFR 1910.67.

Why? From 2010-2016 there have been more than 4 fatalities in Massachusetts when workers were ejected from the bucket work platform of an aerial lift truck. This sample program was developed to help public sector employers prevent these accidents.

Is a written program mandatory? No. The OSHA standard on aerial lifts, 29 CFR 1910.67 does not require a written program. However, having a written program can make your safety efforts more efficient.

Am I required to use the DLS template? No. You may already have a written program from APWA, APPA, or your insurance carrier. You can use the DLS template to review your current program. The template is provided for employers who may be starting from scratch and want to know minimum requirements.

How to use this template program: The template contains some fill-in-the-blank areas. Fill in the information with specific details for your department/agency. You may also decide to add additional information to be stricter than the minimum OSHA requirements.

* Review the sample template.
* Confirm that your department is able to implement each component of the program.
* Complete the fill-in-the-blank sections.
* Sign and date the program.
* Communicate and train employees on the program.
* Monitor operations in the field to confirm that employees understand and are able to conduct the requirements provided in the program.

The Massachusetts Department of Labor Standards has resources for public sector employees to reduce work-related injuries and illnesses. Visit us at [www.mass.gov/dols/wshp](http://www.mass.gov/dols/wshp).

**TEMPLATE**

**Aerial Lift Safety Program**

**Purpose:** This program describes procedures to prevent injury while conducting work with an aerial lift truck. This program applies to all aerial lift truck operations, regardless of whether it is a planned project or emergency.

**Requirements**:

1. **Harness and lanyard**: All personnel working in the aerial lift platform (bucket) are required to use fall protection/restraint using a full-body harness and lanyard.

The following equipment has been selected:

* 1. Full-Body harness: List manufacturer and model \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Lanyard (not to exceed 6 ft. long): List manufacturer and model \_\_\_\_\_\_\_

Personnel are prohibited from using their own personal equipment. Tree climbing belts are not allowed to be used as a substitute for the full-body harness.

2. **Workzone Traffic Control:** A Temporary Traffic Control plan is required to protect the aerial lift truck and bucket from contact with motorists. Accident history in Massachusetts public works departments show that a worker can be ejected from the platform when the aerial lift truck, bucket, or boom is struck by a passing tractor trailer.

 a. As a default first choice, determine if the road can be closed to traffic.

b. As a second choice, the road may remain open if a deliberate Traffic Control Plan has been designed.

i. Do not raise bucket above a lane of live traffic.

ii. Provide adequate “Road Work Ahead” warning signs.

iii. Provide adequate cones to channel traffic away from the truck.

iv. A traffic detail officer does not substitute for a Traffic Control Plan.

3. **Safe Work Practices**

a. Employees shall always stand firmly on the floor of the bucket, and shall not sit or climb on the edge of the bucket or use planks, ladders, or other devices for a work position.

b. Leaving the bucket platform to access a roof, tree, or other structure is not permitted.

c. Belting off to an adjacent pole, structure, or equipment while working from an aerial lift is not permitted.

d. The boom and bucket platform must keep at least 10 feet away from energized power lines. [*Municipal electric utilities conducting power distribution work have requirements outlined in 29 CFR 1910.269. Insert your procedures here*.]

e. Survey the worksite for ground stability before setting up the truck. This survey should include slope, soil, underground pipes and septic, and other site features.

f. Outriggers should be used to ensure stability of truck when boom is raised.

g. Workers may not ride in the bucket platform when the truck travels.

h. When exiting the bucket platform, worker shall exit backwards, facing the bucket, and maintain 3-point contact.

i When exiting the tailgate to reach ground level, the worker shall exit backwards, facing the truck, and maintain 3-point contact. Jumping off from the tailgate or cab is prohibited.

j. A copy of the manufacturer’s owner’s manual will be kept on the vehicle.

**4 PPE**

The following Personal Protective Equipment (PPE) is required:

1. Full-body harness and lanyard for worker in platform.
2. ANSI Class 2 or Class 3 high-visibility reflective clothing, for all workers in or adjacent to a road
3. Safety glasses
4. Hardhat
5. Boots
6. Hearing protection when chainsaw is used
7. Municipal light and power companies: Electrical and arc flash protection *(insert program here)*

5. **Pre-Trip Inspections**

a. A pre-trip inspection following the manufacturer’s Owner’s Manual will be conducted before each use. When the pre-trip inspection indicates damaged or defective parts, the vehicle will not be used until it is repaired according to the manufacturer’s owner’s manual.

b. Lift controls shall be tested each day prior to use to determine that such controls are in safe working condition

c. Before moving an aerial lift for travel, inspect the booms to see that it is properly cradled and outriggers are in stowed position.

d. Modifications to the truck shall not be made without written authorization from the manufacturer.

e. Preventive maintenance and inspection of the vehicle will be conducted according to the manufacturer’s owner’s manual. Tag equipment out-of-service until repairs are completed.

6. **Stop Work**

a. The crew foreman will Stop Work and order workers out of the bucket platform whenever site conditions indicate that the truck could be struck by passing vehicles, the worker could become ejected from the platform, or there is an electrical, wind, weather or other hazard which could cause injury.

b. The crew foreman will Stop Work and order workers out of the bucket platform if they are not anchored into the truck with a full-body harness.

**Employee Qualifications**

1. General Foreman and laborers must complete “Aerial Lift Operations” training. Minimum training requirements include:
	* 1. Use of owner’s manuals and lift limits
		2. Operator controls for normal operating and emergency
		3. Pre-start inspection of truck
		4. Factors affecting stability
		5. Work site inspection
		6. Safe work practices
		7. Electrical and arc flash hazards
		8. Fall protection harness, lanyard and anchor specifically for aerial lift trucks

2 Employees assigned to work in roadways must complete Temporary Traffic Control training to protect truck and employees from contact with passing motorists and construction vehicles inside the work zone.

3 Employees assigned to conduct tree trimming must complete specific training, such as Tree Trimming Operations training or Tree Care Safety Professional training.

4 Employees assigned to use a chainsaw, or other power tool must have completed training on that tool which reviews the Owner’s Manual instructions for use and maintenance of the tool.

**References:**

 1 ANSI A92.2-2009 “Vehicle Mounted Elevating and Rotating Aerial Devices.”

 2 OSHA 29 CFR 1926.453 “Aerial Lifts.”

**Annual Review:**

This program will be reviewed annually and revised as necessary.

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| Version/ Revision # |  |
| Date of Last Revision or Review |  |
| Signature of Director of Public Works |  |