



Aerial Work Platform Safety Program

San Bernardino Valley College
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San Bernardino, California 92410

&

Crafton Hills College
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Yucaipa, California 92399

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Policy Statement

It is the policy of the San Bernardino Community College District (SBCCD) that all employees operating an Aerial Work Platform (AWP) will be qualified and knowledgeable of safe operating procedures in furtherance of protecting the safety and health of those on campus.

Purpose

SBCCD has determined that certain employees may operate AWP's, inducing potential exposure to the associated hazards during routine operations. The purpose of this program is to ensure that all SBCCD AWP operators are adequately trained and qualified to operate an AWP to ensure a safe campus for employees and students. SBCCD will maintain compliance with the Cal/OSHA standard for AWP's.

Scope and Application

This program applies to all SBCCD employees whose work includes the use of elevating work platforms and vehicle mounted or self-propelled aerial devices, which are used to position personnel, along with their tools and necessary material, to work locations. This program does not include mobile ladder stands and scaffolds powered platforms for exterior building maintenance, industrial trucks, tractors, haulage vehicles, and earth moving equipment.

Definitions

- **Aerial Device:** Any vehicle-mounted or self-propelled device, telescoping extensible or articulating, or both, which is primarily designed to position personnel.
- **Aerial Ladder:** An aerial device consisting of a single-or-multiple-section extension ladder.
- **Articulating Boom:** An aerial device with two or more hinged boom sections.
- **Boom:** An elevating member; the lower end of which is attached to a rotating or non-rotating base that permits elevation of the free or outer end in vertical plane.
- **Elevating Work Platform:** A device designed to elevate a platform in a substantially vertical axis. (Vertical Tower, Scissor Lift, Mast-Climbing Work Platform).
- **Extensible Boom Platform:** An aerial device (except ladders) with an extensible boom. Telescopic booms with personnel platform attachments shall be considered to be extensible boom platforms.
- **Insulated Aerial Device:** An aerial device designed for work on energized lines and apparatus.
- **Mast-Climbing Work Platform:** A powered elevating work platform or platforms, supported on one or more vertical masts, for the purpose of positioning personnel, along with necessary tools and materials.
- **Orchard Man-Lift:** An aerial device designed to elevate and position personnel for the purpose of harvesting and/or pruning fruit and nut trees.
- **Override:** The taking over of primary control functions from a secondary location
- **Pin-On Platform:** A platform other than basket or tub, without a guardrail, which is attached to a boom by hinge or pivot connection allowing movement in the vertical plane, including such hinge down platforms, used at the upper end of aerial ladders.
- **Platform:** Any personnel-carrying device (bucket, basket, cage, stand, tub, or equivalent) which is a component of an aerial device

- **Qualified Person:** A person who, by possession of a recognized degree, certificate, professional standing, or by extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems relating to the subject matter.
- **Rated Workload:** The safe design live load carrying capacity of the work platform.
- **Stability:** A condition of a work platform in which the sum of the moments, which tends to overturn the unit is less than the sum of the moments tending to resist overturning
- Work Platform, Adjustable:** Any device that has a platform, which is vertically, horizontally, or rotationally adjustable and supported by a structure.

Responsibilities

Program Administrator

The College President is the program administrator, the Vice President of Administration is the designee, and both have the authority and responsibility for implementing and maintaining this AWP Safety Program for their respective campuses. Assigned campus designees are as follows:

Vice President of Administrative Services/SBVC, Site Safety Officer
San Bernardino Valley College
Tel: (909) 384-8958

&

Vice President of Administrative Services/CHC, Site Safety Officer
Crafton Hills College
Tel: (909) 389-3210

The AWP Program Administrators and designees may be assisted in their duties by the District Environmental Health & Safety Administrator. The EH&S Administrator can be reached at (909) 388-6935 during regular business hours or EHS@SBCCD.edu.

The Program Administrator is responsible for administering the AWP Safety Program. Duties of the program administrator including:

- Identifying work areas, processes or tasks that require workers to operate AWP's and evaluating hazards.
 - Monitoring AWP use to ensure that they are being used in a safe operating condition.
 - Provide recommendations concerning the choice of AWP's.
 - Arranging for and/or conducting training.
 - Ensuring proper storage and maintenance of AWP's.
 - Maintaining records required by the program.
 - Evaluating the program.
- In collaboration with Environmental Health & Safety Administrator update written program, as needed.

Supervisors

Supervisors are responsible for ensuring that the AWP Safety Program is implemented in their particular areas. In addition to being knowledgeable about the program requirements for their own protection, supervisors must also ensure that the program is understood and followed by the employees under their charge. Duties of the supervisor include:

- Coordinate employee training and certify that all operators receive training every five (5) years.
- Ensure that only trained and qualified individuals operate lifts.
- Verify employee compliance with the principles and practices outlined in the AWP Safety Program.
- Provide specific operational training for each lift in their department.
- Observe the operation of lifts and correct unsafe practices.
- Verify that all employees who operate or work near AWP's are properly trained.
- Maintain written records of operator training.
- Maintain written records of the frequent and annual inspections performed by the lift owner, including the date any hazards were found, the date when resolved, and the name of the person performing the repairs.
- Maintain written records of the name and purchaser of each lift.
- Make recommendations for revisions if necessary.

Employees

AWP Operators shall:

- Participate in AWP training, as required.
- Comply with all safe operating procedures presented in this program.
- Report all accidents and near miss incidents.
- Conduct daily AWP inspections and walk-arounds prior to operation.
- Report any deficiency found during inspection that might affect the safe operation of the AWP.
- Observe the operation of lifts in your department and report unsafe practices to your supervisor.

Program Elements

Equipment Instructions & Signage

The first step in operating any AWP is to know how to effectively operate the device. Instructions for maintenance and operations can be found in the operating manual. If a unit is able to be operated in different configurations, then these shall be clearly described, including the rated capacity in each configuration.

Each aerial device or elevating work platform placed in service on or after December 23, 1999, shall have a conspicuously displayed legible plate or other legible marking verifying the aerial device or elevating work platform is designed and manufactured. The plates shall contain the following data, when applicable:

- (1) Make, model and manufacturer's serial number.
- (2) Rated capacity at the maximum platform height.
- (3) Maximum platform travel height.
- (4) Maximum recommended operating pressure of hydraulic or pneumatic system(s) or both.
- (5) Basic cautions or restrictions of operation or both.
- (6) Basic operating instructions, and/or instructions referring users to the manufacturer's operating manual.
- (7) Rated line voltage (if applicable).

Employees shall be instructed in the proper use of the platform in accordance with OSHA article 24(§3638), the manufacturer's operating manual, and the college's Injury and Illness Prevention Program. All aerial devices and elevating work platforms shall be assembled and erected by a qualified person in accordance with the manufacturer's specifications and this Article and shall be maintained in safe operating condition. All electrical tests shall conform to the requirements of the applicable American National Standards Institute (ANSI) standard or equivalent direct current voltage test approved by the equipment manufacturer or equivalent entity. Work performed when using elevating work platforms or aerial devices in proximity to energized high voltage lines shall be done in accordance with the OSHA High Voltage Electrical Safety Orders.

Platform Deck

This section will discuss the requirements for AWP platform deck. The platform deck shall be equipped with a guardrail or other structure around its upper periphery that shall be 42 inches high, plus or minus 3 inches, with a mid-rail or chain of equivalent protection. The configuration of an elevating work platform may include a ladder for personnel to use in reaching the platform deck. Any ladder device used in this way shall have rungs located on uniform centers not to exceed 12 inches.

Any elevating work platform equipped with a powered elevating assembly and having a platform height exceeding 60 inches shall be supplied with safe emergency lowering means compatible with the specific elevating assembly employed. Any powered elevating work platform shall have both upper and lower control devices. Controls shall be plainly marked as to their function and guarded to prevent accidental operation. The upper control device shall be in or beside the platform, within easy reach of the operator. The lower control device shall have the capability to lower the platform where the operator's safety is in jeopardy.

Other safety precautions required for employers to have for an AWP include having a functional emergency stopping

device that is provided at the upper controls of the elevating work platforms. An elevating work platform shall also include toe boards at sides and ends, and they shall not be less than 3 ½ inches tall. The platform shall not have a width that is less than 16 inches. Mast-climbing work platforms shall include the following fire safety provisions:

- (1) At least one-3A40BC fire extinguisher located not closer than five feet from the control panel.
- (2) When fuel-powered equipment is being used, the equipment fuel supply shall be limited to no more than that required for a single shift.

Pre-Operation Inspection

Prior to the operation of any AWP, a visual inspection shall be completed. This applies at the beginning of every work period, and whenever a new equipment operator takes control of the AWP. Any safety defects (such as hydraulic fluid leaks; defective brakes, steering, lights, or horn; and/or missing fire extinguisher, lights, seat belt, or back-up alarm) must be reported for immediate repair. The AWP shall be locked and tagged and taken out of service. (See Pre-shift Inspection form, Appendix C)

Operating Instructions

Elevated Work Platforms

An employee and their supervisor must follow the operating instructions before using the machine to move any materials, equipment, tools, or themselves. The conditions they must meet are:

- (1) The travel speed at Maximum Travel Height does not exceed 3 feet (0.9m) per second.
- (2) Self-propelled units shall be equipped with electrical or other interlock means which will prevent driving them with the platform height greater than the Maximum Travel Height or at speeds greater than permitted at Maximum Travel Height.
- (3) The surface upon which the unit is being operated is level with no hazardous irregularities or accumulation of debris which might cause a moving platform to overturn.

Before use the individual must ensure that the unit was assembled and disassembled in accordance with the manufacturer's instructions. These instructions also include the proper usage of the equipment. The platform units shall also be inspected for damaged and defective parts before use. The unit shall be taken out of service when damaged or weakened from any cause, and the equipment shall not be used until repairs are completed. If a unit is loaded in excess of the design working load, then it cannot be used.

Instructions for employees when operating on or near the elevated platforms. Employees shall not sit, stand, or climb on the guardrails of an elevating work platform or use planks, ladders, or other devices to gain greater working height or reach. Employees shall not work on units when exposed to high winds, storms, or when they are covered with ice or snow (unless provisions have been made to ensure the safety of the employees). Employees climbing or descending vertical ladders shall have both hands free for climbing. Employees should remove foreign substances, such as mud or grease from their shoes prior to operation. If moving vehicles are present around the elevated platforms, then the work area shall be marked with warnings such as flags, roped off area, or other effective means of traffic control shall be provided by the supervisor. Unstable objects such as

boxes, tools, debris, and loose items shall not be allowed to accumulate on the work level.

Instruction for employees who construct, dismantle, move, operate, use, repair, maintain, or even inspect the elevated work platforms shall include, but not limited to, training in:

- (a) The provisions of OSHA article 24(§3646).
- (b) The correct procedures for performing their assigned duties.
- (c) The nature of hazards associated with the equipment, including electrical hazards, fall hazards and falling object hazards in the work area and correct procedures for dealing with those hazards.
- (d) The safe operation and use of elevating work platforms and the proper handling of materials on the work platform.
- (e) The maximum load capacity of the work platform based upon installed configuration.

Aerial Devices

This section provides instructions for employees and their supervisors when operating/handling aerial devices. For starters lift controls shall be tested in accordance with the manufacturer's recommendations or instructions prior to use to determine that such controls are in safe working condition. Only authorized personnel shall operate an aerial device. Employees shall not sit or climb on the edge of the basket or use planks, ladders or other devices to gain greater working height.

Next, we will discuss rules that must be followed for the aerial devices. Aerial baskets or platforms shall not be supported by adjacent structure(s) when workers are on the platform or in the basket while in an elevated position. Boom and basket and platform load limits specified by the manufacturer shall not be exceeded. Belting off to an adjacent pole, structure, or equipment while working from an aerial device shall not be permitted. Provided they can be safely installed, wheel chocks shall be installed before using an aerial device on an incline.

As most aerial devices are portable, there are regulations that employees must be aware of when transporting. An aerial device truck shall not be moved when the boom is elevated in a working position with employees in the basket or platform except when all the following are complied with:

- (1) The equipment is specifically designed for this type of operation in accordance with the provisions of the equipment instructions and signage.
- (2) All controls and signaling devices are tested and are in good operating condition.
- (3) An effective communication system shall be maintained at all times between the basket or platform operator and, where applicable, the vehicle operator.
- (4) The route to be traveled is surveyed immediately prior to the work trip, checking for overhead obstructions, traffic, holes in the pavement, ground or shoulder, ditches, slopes, etc., for areas other than paved, a survey should be made on foot.
- (5) The speed of the vehicle does not exceed three (3) miles per hour.
- (6) Only one employee is in the basket.
- (7) Both the driver and/or the elevated employee have been specifically trained for this type of work (towering) in accordance with the manufacturer's recommendations.

Before moving an aerial device, the equipment shall be inspected to see that the boom is properly cradled, and

outriggers are in stowed positions. An employee, while in an elevated aerial device, shall be secured to the boom, basket, or tub of the aerial device through the use of a safety belt, body belt or body harness equipped with safety strap or lanyard. Instructions for proper uses of these safety items are:

- (a) Safety belts/body belts are prohibited for use in personal fall arrest systems, but may be used as part of a fall restraint or positioning device system.
- (b) Safety belts/body belts used as part of a positioning device system shall be rigged such that an employee cannot free fall more than 2 feet.

A body harness may be used in a personal fall restraint, positioning or fall arrest system. When a body harness is used in a fall arrest system, the lanyard shall be rigged with a deceleration device to limit maximum arresting force on an employee to 1,800 pounds and prevent the employee from hitting any levels or objects below the basket or platform, and shall limit free fall to a maximum of 6 feet.

Training Program

Employees who are authorized to operate AWP's shall receive training prior to engaging in their duties, and at least every five (5) years thereafter. The purpose of the training is to ensure that the safe operating procedures outlined in this program are followed and that the regulatory requirements are complied with. The AWP operator's supervisor will also ensure that authorized lift operators have acquired the necessary practical skills required for safe operation.

Operational training will consist of a combination of general safety instruction, practical/operational training (demonstrations performed by the trainer, and practical exercises performed by the trainee), and evaluation of the operator's performance in the workplace. All operational training must be conducted under close supervision.

All training shall be in compliance with, but not limited to, 29CFR1910.67, 29CFR1926.453, ANSI/SIA A92.5-2006, Boom-Supported Elevating Work Platforms and ANSI/SIA A92.6-2006, Self-Propelled Elevating Work Platforms.

Initial Training

New employees and/or employees not familiar with AWP operation shall attend and complete AWP classroom training prior to being permitted to any "hands-on" practicing. The employee's initial training shall consist of:

- Receive instructions on the intended purpose and function of each control.
- Prior to operating any AWP, the trainee will read and understand the manufacturer's operating instruction(s) and user's safety rules or receive training by a qualified person on the contents of the manufacturer's operating instruction(s) and users safety rules.
- Be informed of the lift operating limitations and restrictions as defined by the manufacturer.
- Understand by reading or having a qualified person explain all decal, warnings, and instructions displayed on the lift.
- During operational training, trainees may operate a lift only under the direct supervision of authorized trainers, and where such operation does not endanger the trainee or other employees.

All training and evaluation must be completed before an operator is permitted to use a lift without continual and close supervision.

General Training Requirements

Only personnel who have received general instructions regarding the inspection, application, and operation of AWP, including recognition and avoidance of hazards associated with their operation, shall operate an AWP. Such items covered shall include, but not necessarily be limited to, the following issues and requirements:

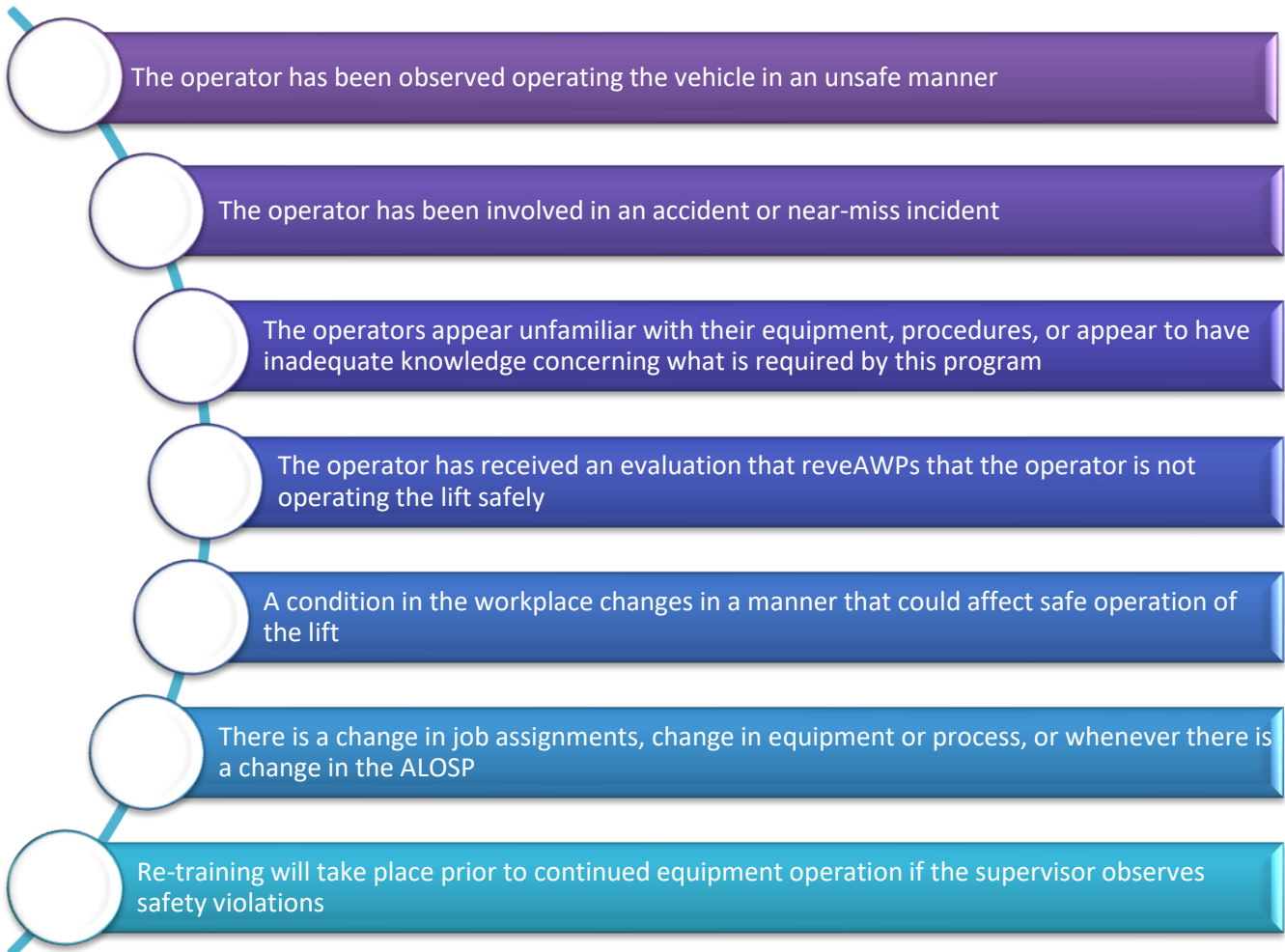
1. •The purpose and use of manual
2. •That operating manuals are an integral part of the aerial platform and must be stored properly in the weather resistant compartment when not in use
3. •A pre-start inspection and work place inspection
4. •Responsibilities associated with problems or malfunctions affecting the operation of the aerial platform
5. •Factors affecting stability
6. •The purpose of placards and decAWPs
7. •Safety rules and regulations
8. •Authorization to operate
9. •Operator warnings and instructions
10. •Actual operation of the aerial platform. Under the direction of a qualified person, the trainee shall operate the aerial platform for a sufficient period of time to demonstrate proficiency in the actual operation of the aerial platform

Evaluation

Each AWP operator's performance shall be evaluated at least once every five (5) years. Evaluations shall include classroom study with an open note written test with passing score of at least 80%. Evaluations shall also include successful completion of a hands-on performance obstacle course.

Re-Training

Re-training shall take place prior to continued equipment operation if the following occurs:

- 
- The operator has been observed operating the vehicle in an unsafe manner
 - The operator has been involved in an accident or near-miss incident
 - The operators appear unfamiliar with their equipment, procedures, or appear to have inadequate knowledge concerning what is required by this program
 - The operator has received an evaluation that reveals that the operator is not operating the lift safely
 - A condition in the workplace changes in a manner that could affect safe operation of the lift
 - There is a change in job assignments, change in equipment or process, or whenever there is a change in the ALOSP
 - Re-training will take place prior to continued equipment operation if the supervisor observes safety violations

Monitoring

Supervisors

The AWP operator's supervisor shall review documents prepared by operators to ensure accuracy and consistency, all requests for repairs, and document completed repairs, ensure that all operators receive annual refresher training and that lifts do not remain in use if safety concerns are noted on the Pre-shift Inspection form, Appendix C.

Each department shall review documents prepared by individual supervisors including, but not be limited to employee evaluations and annual visual operating observations.

Compliance

Operation

- Operators must always wear a full body harness with a non-shock absorbing lanyard protection system when in articulating or extension boom lifts.
- In the event of a fall, the operator must be provided a method of self-rescue.
- In the event of a fall, the operator must be provided with a method to create a place of safe refuge to reduce suspension trauma.
- All operators will be instructed on proper rescue procedures.
- Operators must wear hard hats in areas where overhead hazards exist.
- Operators must sound the horn and use extreme caution when meeting pedestrians, making turns, and cornering.
- Arms or legs may not be placed between the uprights of the mast, outside the running lines nor any portion of the boom swing.
- People are not allowed to stand or pass under any elevated portion of a lift.
- AWP's shall not be driven up to anyone standing in front of a fixed object.
- AWP's shall not be used as cranes.
- Travel-ways must be maintained free from obstructions, aisles must be marked, and wide enough (six-foot minimum) for vehicle operation.
- A safe distance must be maintained from the edge of ramps or platforms while on any elevated dock, platform, or freight car. Lifts shall not be used for opening or closing freight doors.
- Maintain sufficient headroom under overhead installations such as: lights, pipes, sprinkler systems, etc.
- A load backrest extension must be used whenever necessary to minimize the possibility of the load or part of it from falling rearward.
- Lift capacity must be marked on all lift baskets.
- Operators must ensure the load does not exceed rated weight limits.
- When a lift is left unattended (more than 25ft. away or out of sight), load engaging means must be fully lowered, controls neutralized, power shut off, and brakes set. Wheels must be blocked if the truck is parked on an incline.
- All modifications must be approved by the manufacturer, and new rated load capacities determined and posted on the forklift. Written approval is required.
- Operators must report all incidents/near misses, regardless of fault and severity, to their supervisor.

Loading

- Only handle loads within the rated capacity of the lift basket.
- Loads and personnel shall be safely arranged, stable, and centered – always use caution when handling loads.
- Lifts shall not be used as cranes.

Traveling

- All traffic regulations must be observed, including authorized speed limits and yielding to pedestrians.
- The right of way must be yielded to ambulances, fire trucks, or other vehicles in emergency situations.
- Do not pass other lifts traveling in the same direction at intersections, blind spots, or other dangerous locations.
- The driver must slow down and sound the horn (or have a walker provided) at cross aisles and other locations where vision is obstructed.
- If the load being carried obstructs forward view, the driver must travel with the load trailing.
- Railroad tracks must be crossed diagonally wherever possible. Parking closer than eight feet from the center of railroad tracks is prohibited.
- The driver must look in the direction of and keep a clear view of the path of travel.
- Grades must be ascended and descended slowly. Position the load uphill relative to the operator when ascending or descending grades.
- Stunt driving and horseplay are prohibited.
- Avoid running over loose objects on the roadway surface.
- While negotiating turns, reduce speed and turn the hand steering wheel in a smooth, sweeping motion. Except when maneuvering at a very low speed, the hand steering wheel must be turned at a moderate, even rate.

Fueling – Appropriate Personal Protective Equipment (PPE) Shall Be Worn

- Fuel tanks may not be filled while the engine is running. Avoid spillage.
- Spillage of oil or fuel must be carefully washed away or completely evaporated and the fuel tank cap replaced before restarting engine.
- No truck can be operated with a leak in the fuel system.
- Open flames are not to be used when checking electrolyte levels in storage batteries, or gasoline levels in fuel tanks.

Changing/Charging Storage Batteries

- Appropriate PPE shall be worn.
- Battery charging installations must be in areas designated for that purpose.
- Facilities must provide for: flushing and neutralizing spilled electrolyte, fire protection, protection of charging apparatus from damage by trucks, adequate ventilation for dispersal of fumes from gassing batteries.
- A conveyor, overhead hoist, or equivalent material handling equipment must be provided for handling batteries.
- Reinstalled batteries must be properly positioned and secured in the truck.
- A carbon filter or siphon must be provided for handling electrolyte.
- When charging batteries, acid must be poured into water. Not water into acid
- Lifts shall be properly positioned, and the brakes must be applied before attempting to change or charge batteries.
- Care must be taken to ensure that vent caps are functioning. The battery (or compartment) cover(s) must be open to dissipate heat.
- Smoking is prohibited in the charging area.
- Precautions must be taken to prevent open flames, sparks, or electric arcs in battery charging areas.
- Tools and other metallic objects must be kept away from the top of uncovered batteries.
- Distracted operating such, but not limited to, cell phone use is prohibited.

Maintenance

- Any lift not in safe operating condition must be removed from service. Authorized personnel shall make all repairs.
- Repairs to the fuel and ignition systems of lifts that involve fire hazards must be conducted only in locations designated for such repairs.
- Lifts in need of repairs to the electrical system must have the battery disconnected before such repairs.
- Only use replacement parts that are currently recommended by the manufacturer.
- Lifts must be examined before being placed in service and must not be placed in service if the examination shows any condition adversely affecting the safety of the vehicle. Such examinations must be done at least daily. Where lifts are used on a round-the-clock basis, the lifts must be examined before each shift. Any defects must be immediately reported and corrected.
- When the temperature of any part of any lift is found to be in excess of its normal operating temperature, thus creating a hazardous condition, the lift shall be removed from service and not returned to service until the cause for such overheating has been eliminated.
- Lifts shall be kept in a clean condition. All loose and non-essential materials shall be removed immediately.

Record Keeping

A written copy of this program and the related OSHA standard are kept in the Program Administrator's office and is available to all employees who wish to review it.

Each department must maintain a record of all individual employee training, including:

- Subject matter of the training (classroom, test, and obstacle course performance)
- Make/model/type of AWP
- Date of training
- Name of individual trained
- Name of supervisor or trainer providing the training
- Training records must be maintained by the department for a minimum of 5 years.

Records of inspections and repairs on an AWP shall be maintained for at least three years and be made available to the Cal OSHA Division upon request. Records of inspections shall document the date of inspection, and any deficiencies found, the corrective action recommended and identification of the persons or entities performing the inspection. Supervisors must maintain records of repairs and shall include the date of any such repair, a description of the work accomplished, and identification of the persons or entities performing the work.

Program Evaluation

The SBCCD Aerial Work Platform Safety Program will undergo regular review and necessary revisions periodically by the Environmental Health and Safety Administrator in consultation with the Program Administrator.

References

- CCR 24(§3638)
- CCR 24(§3646)
- 29 CFR1910.67
- 29 CFR1926.453
- ANSI/SIA A92.5-2006
- ANSI/SIA A92.6-2006

Appendix A: SBVC Site Specific Information

College President

- (909) 384-4477

VP Administrative Services

- (909) 384-8958

Administrative Services

- (909) 384-8965

Safety & Risk Management

- (909) 388-6935

Web Links

- <https://sbccd.org/ehs>

Appendix B: CHC Site Specific Information

College President

- (909) 389-3200

VP Administrative Services

- (909) 389-3210

Administrative Services

- (909) 389-3211

Safety & Risk Management

- (909) 388-6935

Web Links

- <https://sbccd.org/ehs>

Appendix C: Pre-Shift Inspection Checklist

Inspector: _____ Date: _____ Model: _____

Item	Pass	Fail	Corrective Action
1) Check upper and lower control functions.			
2) Check emergency stop functions (lower control and upper control).			
3) Inspect tires for excessive wear, splitting or missing tire material.			
4) Inspect tires for proper inflation pressure.			
5) Check hydraulic fluid levels.			
6) Check fall restraint structure is free of cracks and all components function.			
7) Inspect hydraulic cylinders for leaks at seal area.			
8) Operator safety manual available.			
9) Check all safety warning devices (horn, lights, etc).			
10) When applicable, inspect batteries for: <i>Note: thick nitrile gloves, splash goggles, and long sleeves must be worn when working with batteries.</i>			
a. Cracks or holes in batteries.			
b. Excessive corrosion build up on battery.			
c. Frayed or corroded cables.			
d. Battery fluid level.			
e. Tight battery connections			
f. Clogged or missing vent caps.			
11) When applicable check propane tanks for:			
a. Cracks, broken weld points, and other visual damage – check tank service life.			
b. Leaks at valves, nozzles, and hoses			
12) Fire Extinguisher (if applicable)			
Comment			