

Chapter 296-869 WAC Safety Standards for Elevating Work Platforms (Form Number F414-146-000)

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This book contains rules for Safety Standards for elevating work platforms, as adopted under the Washington Industrial Safety and Health Act of 1973 (Chapter 49.17 RCW).

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Chapter 296-869 WAC

Safety Standards for Elevating Work Platforms

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WAC 296-869-099 Definitions.

Aerial device. A vehicle-mounted device, telescoping or articulating, or both, which is used to position personnel.

Aerial ladder. A vehicle-mounted elevating work platform consisting of a single or multiple-section extensible ladder. It may or may not have a platform at the top.

Aerial lift. An aerial device mounted on a vehicle such as a truck, trailer, or all-terrain vehicle.

Approved. Listed or approved by a nationally recognized testing laboratory or a federal agency that issues approvals for equipment such as the Mine Safety and Health Administration (MSHA); the National Institute for Occupational Safety and Health (NIOSH); Department of Transportation; or U.S. Coast Guard, which issue approvals for such equipment.

Articulating-boom work platform. A vehicle-mounted elevated work platform with 2 or more hinged boom sections.

Boom-supported elevating work platform. A self-propelled, integral chassis, elevating work platform with a boom-supported platform that can be positioned completely beyond the base.

Chassis. The part of a nonvehicle-mounted elevating work platform that provides mobility and support for the elevating assembly and platform.

Elevating work platform. A device used to position personnel, along with their necessary tools and materials, at work locations. It includes a platform and an elevating assembly. It may be vehicle-mounted or have an integral chassis for mobility and as a means of support.

Extensible-boom work platform. A vehicle-mounted elevating work platform with a telescopic or extensible boom.

Manually propelled elevating work platform. A manually propelled, integral chassis, elevating work platform with a platform that cannot be positioned completely beyond the base.

Platform. The portion of an elevating work platform intended to be occupied by personnel. It may also be called a basket, bucket, stand, or similar term.

Rated capacity. The designed carrying capacity of the elevating work platform as specified by the manufacturer.

Self-propelled elevating work platform. A self-propelled, integral chassis, elevating work platform with a platform that cannot be positioned completely beyond the base.

Type designation. A code to identify types of elevating work platforms. It is used to determine if an elevating work platform can be used in a specific classified or unclassified location. An unclassified location is an area that is not designated as a Class 1, 2, or 3 location

- (a) **D** refers to elevating work platforms that are diesel-engine-powered that have minimum safeguards against inherent fire hazards.
- (b) **DS** refers to diesel-powered elevating work platforms that, in addition to meeting all the requirements for type D elevating work platforms, are provided with additional safeguards to the exhaust, fuel and electrical systems.

- (c) **DY** refers to diesel-powered elevating work platforms that have all the safeguards of the DS elevating work platforms and, in addition, any electrical equipment is completely enclosed. They are equipped with temperature-limitation features.
- (d) **E** refers to electrically powered elevating work platforms that have minimum acceptable safeguards against inherent fire hazards.
- (e) **ES** refers to electrically powered elevating work platforms that, in addition to all of the requirements for the E elevating work platforms, have additional safeguards to the electrical system to prevent emission of hazardous sparks and to limit surface temperatures.
- (f) **EE** refers to electrically powered elevating work platforms that, in addition to all of the requirements for the E and ES type elevating work platforms, have their electric motors and all other electrical equipment completely enclosed.
- (g) **EX** refers to electrically powered elevating work platforms that differ from E, ES, or EE type elevating work platforms in that the electrical fittings and equipment are designed, constructed, and assembled to be used in atmospheres containing flammable vapors or dusts.
- (h) **G** refers to gasoline-powered elevating work platforms that have minimum acceptable safeguards against inherent fire hazards.
- (i) **GS** refers to gasoline-powered elevating work platforms that are provided with additional exhaust, fuel, and electrical systems safeguards.
- (j) **LP** refers to liquefied-petroleum-gas-powered elevating work platforms that, in addition to meeting all the requirements for type G elevating work platforms, have minimum acceptable safeguards against inherent fire hazards.
- (k) **LPS** refers to liquefied-petroleum-gas-powered elevating work platforms that, in addition to meeting the requirements for LP type elevating work platforms, have additional exhaust, fuel, and electrical systems safeguards.

Vertical tower. A vehicle-mounted elevating work platform having a platform that can be raised along a vertical axis.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-099, filed 11/17/15, effective 12/17/15.
Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-700, filed 9/19/06, effective 1/1/07]

WAC 296-869-100 Scope.

This chapter applies to the following types of elevating work platforms:

- (1) Aerial lifts;
- (2) Manually propelled elevating work platforms that have a platform that cannot be positioned completely beyond the base;
- (3) Self-propelled elevating work platforms that have a platform that cannot be positioned completely beyond the base;
- (4) Boom-supported elevating work platforms that have a boom-supported platform that can be positioned completely beyond the base.

EXEMPTION:

This chapter does not apply to elevating work platforms used:

- 1. By the fire services for fire combat that are covered by Safety Standards for Firefighters, Chapter [296-305](#) WAC; or*
- 2. For agriculture activities covered by Safety Standards for Agriculture, Chapter [296-307](#) WAC.*

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-100, filed 11/17/15, effective 12/17/15.
Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-100, filed 9/19/06, effective 1/1/07]

WAC 296-869-200 Section contents.

Summary

<i>Important:</i>
<p><i>This section applies to the following types of vehicle-mounted aerial devices:</i></p> <ol style="list-style-type: none"> 1. <i>Extensible-boom work platforms;</i> 2. <i>Articulating-boom work platforms;</i> 3. <i>Vertical towers;</i> 4. <i>Aerial ladders;</i> 5. <i>A combination of any of the above types of elevating work platforms.</i>

Your responsibility: To meet these requirements when using aerial lifts.

<i>You must meet the requirements</i>	<i>in this section</i>
Design and construction	WAC 296-869-20005
Modifications	WAC 296-869-20010
Owned, rented, or leased aerial lifts	WAC 296-869-20015
Operator requirements	WAC 296-869-20020
Operator training	WAC 296-869-20025
Operator prestart inspection	WAC 296-869-20030
Workplace survey	WAC 296-869-20035
Before and during use	WAC 296-869-20040
Working from the platform	WAC 296-869-20045
Moving the aerial lift	WAC 296-869-20050
Aerial ladders	WAC 296-869-20055

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-200, filed 11/17/15, effective 12/17/15.
 Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-200, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20005 Design and construction.

- (1) You must make sure aerial lifts manufactured on or after July 1, 2006, meet the design and construction requirements of ANSI A92.2-2001, *American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices*.
- (2) You must make sure aerial lifts manufactured before July 1, 2006, meet the design and construction requirements of ANSI A92.2-1969, *American National Standard for Vehicle-Mounted Elevating and Rotating Work Platforms*.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20005, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20005, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20010 Modifications.

You must have written approval from the manufacturer before making any modification or addition that affects the safe operation, stability, intended use, or the mechanical, hydraulic, or electrical integrity of the aerial lift. Make sure the modified aerial lift is:

- (1) At least as safe as it was before being modified; and
- (2) Any change to the insulated portion of the aerial lift does not reduce the insulating value.

Note: If the original manufacturer is no longer in business, an equivalent entity such as a nationally recognized testing laboratory may approve modification.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20010, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20010, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20015 Owned, rented, or leased aerial lifts.

Important:

This section applies if you own, rent, or lease an aerial lift.

- (1) You must meet the requirements of the Responsibilities of Owners, section 8, of ANSI A92.2-2001, *American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices*, if you own an aerial lift.
- (2) You must meet the requirements of the Responsibilities of Renters, Lessors or Lessees, section 11, of ANSI A92.2-2001, *American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices*, if you rent or lease an aerial lift.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20015, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20015, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20020 Operator requirements.

You must permit only trained and authorized personnel to operate aerial lifts.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20020, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20020, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20025 Operator training.

- (1) You must make sure personnel are trained before they are permitted to operate an aerial lift.
- (2) You must cover at least the following items:
 - (a) General instruction on the inspection, application, and operation of aerial lifts. Include recognizing and avoiding hazards associated with their operation.
 - (b) Purpose and use of manuals. Include proper storage of the manuals on the vehicle when not in use.
 - (c) Prestart inspection.
 - (d) Responsibilities associated with problems or malfunctions affecting the operation of the aerial lift.
 - (e) Factors affecting stability.
 - (f) Purpose of placards and decals.
 - (g) Workplace survey.
 - (h) Safety rules and regulations pertinent to the industry.
 - (i) Authorization to operate an aerial lift.
 - (j) Operator warnings and instructions.
 - (k) Proper use of personal fall protection equipment.
- (3) You must have operator trainees actually operate the aerial lift, under the direction of a qualified person, for enough time to demonstrate proficiency.
- (4) You must retrain an operator if evaluation and observation of the operator indicates retraining is necessary.
- (5) You must instruct operators in all of the following before they are directed to operate an aerial lift with which they are not familiar:
 - (a) Location of the manuals;
 - (b) Purpose and function of all controls;
 - (c) Safety devices and operating characteristics specific to the aerial lift.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20025, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20025, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20030 Operator prestart inspection.

- (1) You must make sure the operator does a prestart inspection of the aerial device as shown in Table 1, Operator Prestart Inspection.
- (2) You must have a qualified person examine or test any items found during the inspection that are thought to be unsafe, to determine if they constitute a safety hazard.
- (3) You must replace or repair all unsafe items before use.

<i>Table 1 Operator Prestart Inspection</i>	
Component or system:	Test or inspect for the following:
Operating controls and associated mechanisms	Conditions interfering with proper operation
Visual and audible safety devices	Malfunctions
Hydraulic or pneumatic systems	Visible deterioration or excessive leaks
Fiberglass and other insulating components	Visible damage or contamination
Operational and instructional markings	That they are present and legible
Electrical systems of or related to the aerial device	Malfunction and for signs of excessive deterioration, dirt, and moisture accumulation
Locking devices, bolts, pins, and other fasteners	That they are in-place and not loose or deformed

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20030, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20030, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20035 Workplace survey.

You must have the operator survey the area, before using an aerial lift, for hazards such as:

- (1) Untamped earth fills;
- (2) Ditches;
- (3) Drop-offs and floor obstructions;
- (4) Debris;
- (5) Overhead obstructions and electrical conductors;
- (6) Weather conditions;
- (7) Unauthorized persons in the area.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20035, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20035, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20040 Before and during use.

- (1) You must set the brakes and make sure outriggers, when used, are positioned on pads or a solid surface.
- (2) You must install wheel chocks when using the aerial lift on an incline if they can be installed safely.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20040, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20040, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20045 Working from the platform.

- (1) You must make sure boom and platform load limits specified by the manufacturer are not exceeded.
- (2) You must make sure persons stand firmly on the floor of the platform and do not:
 - (a) Sit or climb on the edge of the platform; or
 - (b) Use guardrails, planks, ladders, or any other device to gain additional height or reach.
- (3) You must prohibit wearing climbers when working from the platform.
- (4) You must make sure all persons on the platform wear a full body harness with a lanyard attached to either:
 - (a) The manufacturer's recommended attachment point; or
 - (b) The boom or platform if the manufacturer does not specify an attachment point.
- (5) You must never attach a lanyard to an adjacent pole, structure, or equipment.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20045, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20045, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20050 Moving the aerial lift.

You must make sure the boom is properly cradled and the outriggers are in the stowed position before moving the aerial lift.

EXEMPTION:

The aerial lift may be moved with the boom elevated and personnel on the platform only if the equipment was specifically designed for this type of operation.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20050, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20050, filed 9/19/06, effective 1/1/07.]

WAC 296-869-20055 Aerial ladders.

- (1) You must secure aerial ladders in the lower traveling position, using the locking device or other means provided by the manufacturer, before moving it for highway travel.
- (2) You must make sure all persons working from an aerial ladder wear a full body harness and lanyard attached to either:
 - (a) The manufacturer's recommended attachment point; or
 - (b) The ladder rail if the manufacturer does not specify an attachment point.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-20055, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-20055, filed 9/19/06, effective 1/1/07.]

WAC 296-869-300 Section Contents.

Summary

<i>Important:</i>
<i>This section applies to manually propelled, self-propelled, and boom-supported elevating work platforms.</i>

Your responsibility: To make sure elevating work platforms meet these design, construction, and equipment requirements.

<i>You must meet the requirements</i>	<i>in this section</i>
Manually propelled elevating work platforms	WAC 296-869-30005
Self-propelled elevating work platforms	WAC 296-869-30010
Boom-supported elevating work platforms	WAC 296-869-30015
Modifications	WAC 296-869-30020

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-300, filed 11/17/15, effective 12/17/15.
Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-300, filed 9/19/06, effective 1/1/07.]

WAC 296-869-30005 Manually propelled elevating work platforms.

<i>Important:</i>
<i>This section applies to manually propelled, integral chassis, elevating work platforms with a platform that cannot be positioned completely beyond the base.</i>

- (1) You must make sure manually propelled elevating work platforms meet the design and construction requirements of American National Standards Institute (ANSI) A92.3-1990, *American National Standard for Manually Propelled Elevating Aerial Platforms*.
- (2) You must make sure the manufacturer provides instructions and markings that meet the requirements of ANSI A92.3-1990, *American National Standard for Manually Propelled Elevating Aerial Platforms*, on each elevating work platform.

- (3) You must make sure manuals that meet the requirements of ANSI A92.3-1990, *American National Standard for Manually Propelled Elevating Aerial Platforms*, are:
 - (a) Provided for each elevating work platform; and
 - (b) Kept in the weather-resistant storage compartment provided by the manufacturer.

Note: Required manuals include the manufacturer's operating and maintenance manuals and a manual that defines the responsibilities of dealers, owners, lessors, lessees, users, and operators.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-30005, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-30005, filed 9/19/06, effective 1/1/07.]

WAC 296-869-30010 Self-propelled elevating work platforms.

Important:

This section applies to self-propelled, integral-chassis, elevating work platforms with a platform that cannot be positioned completely beyond the base.

- (1) You must make sure self-propelled elevating work platforms manufactured on or after July 1, 2006, meet the design and construction requirements of ANSI A92.6-1999, *American National Standard for Self-Propelled Elevating Work Platforms*.
- (2) You must make sure self-propelled elevating work platforms manufactured before July 1, 2006 meet the design and construction requirements of ANSI A92.6-1990, *American National Standard for Self-Propelled Elevating Work Platforms*.
- (3) You must make sure the manufacturer provides instructions and markings that meet the requirements of ANSI A92.6-1990 or A92.6-1999, *American National Standard for Self-Propelled Elevating Work Platforms*, as appropriate, on each elevating work platform.
- (4) You must make sure manuals that meet the requirements of ANSI A92.6-1990 or A92.6-1999, *American National Standard for Self-Propelled Elevating Work Platforms*, as appropriate, are:
 - (a) Provided for each elevating work platform; and
 - (b) Kept in the weather-resistant storage compartment provided by the manufacturer.

Note: Required manuals include the manufacturer's operating and maintenance manuals and a manual that defines the responsibilities of dealers, owners, lessors, lessees, users, and operators.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-30010, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-30010, filed 9/19/06, effective 1/1/07.]

WAC 296-869-30015 Boom-supported elevating work platforms.

Important:

This section applies to self-propelled, integral chassis, elevating work platforms with a boom-supported platform that can be positioned completely beyond the base.

- (1) You must make sure boom-supported elevating work platforms meet the design and construction requirements of American National Standards Institute (ANSI) A92.5-1992, *American National Standard for Boom-Supported Elevating Work Platforms*.
- (2) You must make sure the manufacturer provides instructions and markings that meet the requirements of ANSI A92.5-1992, *American National Standard for Boom-Supported Elevating Work Platforms*, on each elevating work platform.
- (3) You must make sure manuals that meet the requirements of ANSI A92.5-1992, *American National Standard for Boom-Supported Elevating Work Platforms*, are:
 - (a) Provided for each elevating work platform; and
 - (b) Kept in the weather-resistant storage location provided by the manufacturer.

Note: Required manuals include the manufacturer's operating and maintenance manuals and a manual that defines the responsibilities of dealers, owners, lessors, lessees, users, and operators.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-30015, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-30015, filed 9/19/06, effective 1/1/07.]

WAC 296-869-30020 Modifications.

- (1) You must prohibit altering or disabling interlocks or other safety devices.
- (2) You must have written permission from the manufacturer before making any modification to an elevating work platform.

Note: If the original manufacturer is no longer in business, an equivalent entity such as a nationally recognized testing laboratory may approve modification.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-30020, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-30020, filed 9/19/06, effective 1/1/07.]

WAC 296-869-400 Section Contents.

Summary

<i>Important:</i>
<i>This section applies to manually propelled, self-propelled, and boom-supported elevating work platforms.</i>

Your responsibility: To inspect, repair, maintain, and service elevating work platforms to keep them in safe operating condition.

<i>You must meet the requirements...</i>	<i>in this section:</i>
Condition	WAC 296-869-40005
Inspections	WAC 296-869-40010
Repairs and adjustments	WAC 296-869-40015
Manufacturer's safety bulletins	WAC 296-869-40020
Inspection and repair records	WAC 296-869-40025
Fueling and battery charging	WAC 296-869-40030

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-400, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-400, filed 9/19/06, effective 1/1/07.]

WAC 296-869-40005 Condition.

- (1) You must inspect and maintain elevating work platforms to keep them in proper operating condition.
- (2) You must immediately remove from service any elevating work platform that is not in proper operating condition.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-40005, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-40005, filed 9/19/06, effective 1/1/07.]

WAC 296-869-40010 Inspections.

- (1) You must do a prestart inspection of the elevating work platform according to Table 2, Elevating Work Platform Inspections.
- (2) You must make sure frequent and annual inspections are done:
 - (a) By a person qualified as a mechanic on the specific make and model of elevating work platform; and
 - (b) According to Table 2, Elevating Work Platform Inspections.

Table 2 Elevating Work Platform Inspections		
Type of inspection:	When required:	Items to inspect:
Prestart	At the beginning of each shift.	Do a visual inspection and functional test including at least the following: <ol style="list-style-type: none"> 1. Operating and emergency controls; 2. Safety devices; 3. Personal protective devices, including fall protection; 4. Air, hydraulic and fuel system leaks; 5. Cables and wiring harness; 6. Loose or missing parts; 7. Tires and wheels; 8. Placards, warnings, control markings, and required manuals; 9. Outriggers, stabilizers, and other structures; 10. Guardrail system; 11. Items specified by the manufacturer.

Table 2 Elevating Work Platform Inspections (Continued)		
Type of inspection:	When required:	Items to inspect:
Frequent	1. Elevating work platforms that have been in service 3 months or 150 hours, whichever comes first; and 2. Before putting elevating work platforms back in service that have been out of service for more than 3 months. <i>Note: Newly purchased used equipment should be given the equivalent of a frequent inspection before being put into service.</i>	1. All functions and their controls for speeds, smoothness, and limits of motion; 2. Emergency lowering means (manually propelled only); 3. Lower controls including the provisions for overriding of upper controls (self-propelled and boom-supported); 4. All chain and cable mechanisms for adjustment and worn or damaged parts; 5. All emergency and safety devices; 6. Lubrication of all moving parts, inspection of filter element(s), hydraulic oil, engine oil, and coolant as specified by the manufacturer; 7. Visual inspection of structural components and other critical components such as fasteners, pins, shafts, turntable attachment bolts (boom-supported only), and locking devices; 8. Placards, warnings, and control markings; 9. Additional items specified by the manufacturer.
Annual	No later than 13 months from the date of the last annual inspection	All items specified by the manufacturer for an annual inspection.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-40010, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-40010, filed 9/19/06, effective 1/1/07.]

WAC 296-869-40015 Repairs and adjustments.

- (1) You must make sure repairs to elevating work platforms are:
 - (a) Made by a qualified person; and
 - (b) Done according to the manufacturer's recommendations.
- (2) You must make sure the elevating work platform, before beginning adjustments or repairs, meets all of the following requirements that apply:
 - (a) All controls in the "off" position;
 - (b) All operating features secured from inadvertent motion by brakes, blocks, or other means.
 - (c) Power plant stopped;
 - (d) Means of starting is rendered inoperative;
 - (e) Platform either:
 - (i) Lowered to the full down position, if possible; or
 - (ii) Blocked or cribbed to prevent dropping.
 - (f) Hydraulic pressure relieved from all hydraulic circuits before loosening or removing hydraulic components;
 - (g) Safety props or latches installed, where applicable;
 - (h) Other precautions as specified by the manufacturer; and
 - (i) Make sure replacement parts or components are identical or equivalent to the original parts or components.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-40015, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-40015, filed 9/19/06, effective 1/1/07.]

WAC 296-869-40020 Manufacturer's safety bulletins.

You must meet the requirements of safety-related bulletins as received from the manufacturer, dealer, or owner.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-40020, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-40020, filed 9/19/06, effective 1/1/07.]

WAC 296-869-40025 Inspection and repair records.

- (1) You must keep written records documenting:
 - (a) Frequent and annual inspections you have done including:
 - (i) Date of inspection;
 - (ii) Deficiencies found;
 - (iii) Corrective action recommended.
 - (b) Names of the people who did the inspection; and
 - (c) All repairs done on the elevating work platform, including:
 - (i) Date of repair;
 - (ii) Description of the work done;
 - (iii) Names of the people who did the repair.
- (2) You must retain the records of inspections and repairs for at least:
 - (a) Three years for manually propelled and boom-supported elevating work platforms; and
 - (b) Four years for self-propelled elevating work platforms.

Notes:

1. *It is the responsibility of the owner of the elevating work platform to make sure frequent and annual inspections are done and documented.*
2. *If you perform either type of inspection, or make repairs to the elevating work platform, send the appropriate records to the owner of the elevating work platform.*

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-40025, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-40025, filed 9/19/06, effective 1/1/07.]

WAC 296-869-40030 Fueling and battery charging.

- (1) You must shut-down the engine while filling fuel tanks.
- (2) You must fill fuel tanks and charge batteries in areas that are:
 - (a) Open and well-ventilated; and
 - (b) Free of flame, sparks, or other hazards that may cause fire or explosion.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-40030, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-40030, filed 9/19/06, effective 1/1/07.]

WAC 296-869-500 Section Contents.

Summary

<i>Important:</i>
<i>This section applies to manually propelled, self-propelled, and boom-supported elevating work platforms.</i>

Your responsibility: To properly train elevating work platform operators.

<i>You must meet the requirements...</i>	<i>in this section:</i>
Operator authorization and training	WAC 296-869-50005
Specific model training	WAC 296-869-50010
Operator training records	WAC 296-869-50015

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-500, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-500, filed 9/19/06, effective 1/1/07.]

WAC 296-869-50005 Operator authorization and training.

- (1) You must permit only trained and authorized personnel to operate elevating work platforms.
- (2) You must train operators in all of the following:
 - (a) The manufacturer's operating and maintenance manuals;
 - (b) Your work instructions;
 - (c) The requirements of this chapter.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-50005, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-50005, filed 9/19/06, effective 1/1/07.]

WAC 296-869-50010 Specific model training.

- (1) You must make sure operators:
 - (a) Know the required manuals supplied by the manufacturer are stored in a weather resistant compartment and where the compartment is located; and
 - (b) Refer to the manuals when necessary.

- (2) You must make sure operators do all of the following before operating an elevating work platform:
 - (a) Read and understand the manufacturer's operating instructions and your safety rules, or have them explained by a qualified person;
 - (b) Understand, by reading or by having a qualified person explain, all decals, warnings, and instructions displayed on the elevating work platform;
 - (c) Are instructed by a qualified person in the intended purpose and function of each control.
- (3) You must have operator trainees demonstrate their knowledge and proficiency during actual operation of an elevating work platform under the following conditions:
 - (a) Under the direction of a qualified person;
 - (b) In an area free of obstructions; and
 - (c) Using an elevating work platform that is:
 - (i) The same model that they will be operating; or
 - (ii) One that has similar controls and operating characteristics.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-50010, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-50010, filed 9/19/06, effective 1/1/07.]

WAC 296-869-50015 Operator training records.

You must retain records of the operators trained on each model of elevating work platform for at least:

- (1) Three years for manually propelled and boom-supported elevating work platforms; and
- (2) Four years for self-propelled elevating work platforms

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-50015, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-50015, filed 9/19/06, effective 1/1/07.]

WAC 296-869-600 Section Contents.

Summary

Important:
<i>This section applies to manually propelled, self-propelled, and boom-supported elevating work platforms.</i>

Your responsibility: To meet these requirements when operating elevating work platforms.

You must meet the requirements...	in this section:
Intended use	WAC 296-869-60005
Workplace survey	WAC 296-869-60010
Hazardous locations	WAC 296-869-60015
Set up	WAC 296-869-60020
Travel speed	WAC 296-869-60025
Driving	WAC 296-869-60030
Elevating and lowering the platform	WAC 296-869-60035
Working from the platform	WAC 296-869-60040
Malfunctions or unsafe conditions	WAC 296-869-60045

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-600, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-600, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60005 Intended use.

You must make sure elevating work platforms are used only for their intended purpose as specified by the manufacturer.

<p><i>Note: Misuse of an elevating work platform includes, but is not limited to:</i></p> <ol style="list-style-type: none"> 1. <i>Using the elevating work platform as a crane.</i> 2. <i>Using the platform to jack the wheels off the ground unless the machine was designed for that purpose by the manufacturer.</i> 3. <i>Operating the elevating work platform from a truck, trailer, railway car, floating vessel, scaffold, or similar equipment unless the application is approved in writing by the manufacturer.</i>

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60005, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60005, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60010 Workplace survey.

You must have the operator survey the area before and during use of an elevating work platform for hazards such as:

- (1) Drop-offs or holes;
- (2) Slopes;
- (3) Bumps and floor obstructions;
- (4) Debris;
- (5) Overhead obstructions and high voltage conductors;
- (6) Hazardous locations;
- (7) Inadequate surface and support to withstand the load imposed on them by the elevating work platform in all operating configurations;
- (8) Wind and weather conditions;
- (9) Unauthorized persons in the area;
- (10) Other possible unsafe conditions.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60010, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60010, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60015 Hazardous locations.

- (1) You must determine the hazard classification of any area where the elevating work platform will operate using National Fire Protection Association (NFPA) 505-2002, *Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations*.
- (2) You must make sure only approved elevating work platforms are used in Class I, II, or III locations.
- (3) You must make sure elevating work platforms are used in hazardous (classified) locations as follows:
 - (a) Elevating work platforms authorized to be used in Class 1 locations are shown in Table 3, Approved Elevating Work Platform Use in Class 1 Locations;
 - (b) Elevating work platforms authorized to be used in Class 2 locations are shown in Table 4, Approved Elevating Work Platform Use in Class 2 Locations;
 - (c) Elevating work platforms authorized to be used in Class 3 locations are shown in Table 5, Approved Elevating Work Platform Use in Class 3 Locations.

- (4) You must make sure elevating work platforms authorized to be used in unclassified locations are:
 - (a) Approved elevating work platforms designated as Type D, E, G, or LP; and
 - (b) Elevating work platforms that meet the requirements of Type D, E, G, or LP elevating work platforms.
- (5) You must have operators report any hazardous atmosphere or location that becomes apparent while operating the elevating work platform.

Table 3 Approved Elevating Work Platform Use in Class 1 Locations							
Class 1							
Locations in which flammable gases or vapors are, or may be, present in the air in quantities sufficient to produce explosive or ignitable mixtures							
Division 1 Conditions exist continuously, intermittently, or periodically under normal operating conditions.				Division 2 Conditions may occur accidentally, for example, due to a puncture of a storage drum.			
Group A	Group B	Group C	Group D	Group A	Group B	Group C	Group D
Acetylene	Hydrogen	Ethyl ether	Acetone Alcohols Benzene Gasoline Lacquer Solvent	Acetylene	Hydrogen	Ethyl ether	Acetone Alcohols Benzene Gasoline Lacquer Solvent
No type can be used	No type can be used	No type can be used	Use this elevating work platform type: EX	No type can be used	No type can be used	No type can be used	Use this elevating work platform type: DS DY ES EE EX GS LPS

Table 4 Approved Elevating Work Platform Use in Class 2 Locations					
Class 2					
Locations which are hazardous because of the presence of combustible dust					
Division 1 Explosive mixture may be present under normal operating conditions, or where failure of equipment may cause the condition to exist simultaneously with arcing or sparking of electrical equipment, or where dusts of an electrically conducting nature may be present.			Division 2 Explosive mixture not normally present, but where deposits of dust may cause heat rise in electrical equipment, or where such deposits may be ignited by arcs or sparks from electrical equipment.		
Group E Metal dust	Group F Carbon black Coal dust Coke dust	Group G Grain dust Flour dust Starch dust Organic dust	Group E Metal dust	Group F Carbon black Coal dust Coke dust	Group G Grain dust Flour dust Starch dust Organic dust
No type can be used	Use this elevating work platform type: EX	Use this elevating work platform type: EX	No type can be used	No type can be used	Use this elevating work platform type: DS DY ES EE EX GS LPS

Table 5 Approved Elevating Work Platform Use in Class 3 Locations	
Class 3	
Locations where easily ignitable fibers or flyings are present but not likely to be in suspension in quantities sufficient to produce ignitable mixtures	
Division 1	Division 2
Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured, or used.	Locations in which easily ignitable fibers are stored or handled (except in the process of manufacture).
Use this elevating work platform type:	Use this elevating work platform type:
DY	DS EE
EE	DY EX
EX	E GS
	ES LPS

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60015, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60015, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60020 Set-up.

- (1) You must prohibit positioning the elevating work platform against another object in order to steady the platform.
- (2) You must do the following when other moving equipment or vehicles are present:
 - (a) Take special precautions to meet the requirements of local ordinances or workplace safety standards; and
 - (b) Use warnings such as, but not limited to, flags, roped-off areas, flashing lights, and barricades.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60020, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60020, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60025 Travel speed.

You must make sure the operator limits travel speed according to conditions, including:

- (1) Condition of the ground or support surface;
- (2) Congestion;
- (3) Visibility;
- (4) Slope;
- (5) Location of personnel;
- (6) Other factors that may create a hazard of collision or injury to personnel.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60025, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60025, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60030 Driving.

Important:

This section does not apply to manually propelled elevating work platforms.

- (1) You must make sure the operator does all of the following before and while driving with the platform elevated:
 - (a) Maintains a clear view of the path of travel;
 - (b) Keeps a safe distance from obstacles, debris, drop-offs, holes, depressions, ramps, and other hazards to safe travel;
 - (c) Keeps a safe distance from overhead obstacles.
- (2) You must prohibit stunt driving and horseplay.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60030, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60030, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60035 Elevating and lowering the platform.

- (1) You must have the operator make sure all of the following are done before each elevation of the platform:
 - (a) The elevating work platform is on a surface that is within the limits specified by the manufacturer;
 - (b) Outriggers, stabilizers, extendable axes, or other stability enhancing means are used as required by the manufacturer;

- (c) Guardrails are installed and access gates or openings are closed per the manufacturer's instructions;
 - (d) The load and its distribution on the platform and any platform extension does not exceed the manufacturer's rated capacity for the configuration being used;
 - (e) There is adequate clearance from overhead obstructions;
 - (f) The minimum safe approach distance (MSAD) to energized power lines and parts listed in Table 6, Minimum Safe Approach Distance, is maintained;
 - (g) All persons on the platform are wearing fall protection devices and other safety gear if required.
- (2) You must prevent rope, electric cords, hoses and similar objects from becoming entangled with the platform.
- (3) You must have the operator make sure the area is clear of personnel and equipment before lowering the platform.
- (4) You must remove all personnel from a platform that has been caught, snagged, or otherwise prevented from normal motion before attempting to free it using ground controls.

Note: If possible, reverse the platform controls to free a platform that is caught, snagged, or otherwise prevented from normal motion by an adjacent structure or other obstacle.

Table 6 Minimum Safe Approach Distance	
Voltage	Minimum Safe Approach Distance
Less than 300 volts (insulated lines)	3 feet (0.9 m)
Less than 300 volts (uninsulated lines)	10 feet (3.1 m)
300 volts to 50 kv	10 feet (3.1 m)
More than 50 kv	10 feet (3.1 m) + 0.4 inches (1.0 cm) for each 1 kv over 50 kv

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60035, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60035, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60040 Working from the platform.

- (1) You must make sure persons working from the platform:
 - (a) Keep a firm footing on the platform; and
 - (b) Do not use guardrails, planks, ladders, or any other device to gain additional height or reach.
- (2) You must make sure all persons on the platform of boom-supported elevating work platforms wear a full body harness and lanyard fixed to manufacturer provided and approved attachment points.
- (3) You must make sure the rated capacities of the platform are not exceeded when transferring loads to the platform at any height.

Note: Guardrails are the primary means of fall protection for manually propelled elevating work platforms.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60040, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60040, filed 9/19/06, effective 1/1/07.]

WAC 296-869-60045 Malfunctions or unsafe conditions.

You must make sure operators, if they suspect a malfunction of the elevating work platform or encounter any hazard or potentially unsafe condition, do all of the following:

- (1) Cease operation.
- (2) Report the problem or malfunction.
- (3) Discontinue using the elevating work platform until problems or malfunctions that affect safe operation have been corrected.

[Statutory Authority: RCW 49.17.010, .040, and .050. 15-23-086 (Order 14-16), § 296-869-60045, filed 11/17/15, effective 12/17/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. 06-19-073, § 296-869-60045, filed 9/19/06, effective 1/1/07.]