AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-00650 Adopted standards.

ELEVATOR CODES AND SUPPLEMENTS ADOPTED				
TYPE OF CONVEYANCE	CODE AND SUPPLEMENTS	DATE INSTALLED		COMMENTS
		FROM	TO	
Elevators, Dumbwaiters, Escalators	American Standard Safety Code (ASA) A17.1, 1960	11/1/1963	12/29/1967	Adopted Standard

NATIONAL ELEVATOR CODES AND SUPPLEMENTS ADOPTED				
TYPE OF CONVEYANCE	CODE AND SUPPLEMENTS	DATE INSTALLED		COMMENTS
		FROM	TO	
Moving Walks	American Standard Safety Code (ASA) A17.1.13, 1962	11/1/1963	12/29/1967	Adopted Standard
Elevators, Dumbwaiters, Escalators, and Moving Walks	U.S.A. Standards USAS A17.1-1965 Supplements A17.1a-1967 A17.1b-1968 A17.1c-1969	12/30/1967	2/24/1972	Adopted Standard USAS 1965 includes revision and consolidation of A17.1-1960, A17.1a-1963, & A17.1.13-1962. Adopted code and supplements, excluding Appendix E & ANSI A17.1-1970.
Elevators, Dumbwaiters, Escalators, and Moving Walks	American National Standards Institute A17.1-1971	2/25/1972	6/30/1982	Adopted Standard as amended and revised through 1971.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1-1971; A17.1a-1972	2/25/1972	6/30/1982	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1-1981	7/1/1982	1/9/1986	Adopted Standard
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1a-1982	3/1/1984	1/9/1986	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1b-1983	12/1/1984	1/9/1986	Adopted Supplement, except portable escalators covered by Part VIII A17.1b-1983.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1-1984	1/10/1986	12/31/1988	Adopted Standard Except Part XIX. After 11/1/1988 Part II, Rule 211.3b was replaced by WAC 296-81-275.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1a-1985	1/10/1986	12/31/1988	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1b-1985 A17.1c-1986 A17.1d-1986 A17.1e-1987	12/6/1987	12/31/1988	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1-1987	1/1/1989	12/31/1992	Adopted Standard Except Part XIX and Part II, Rule 211.3b. WAC 296-81-275 replaced Part II, Rule 211.3b.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1-1990	1/1/1993	2/28/1995	Adopted Standard Except Part XIX and Part V, Section 513. Chapter 296-94 WAC replaced Part V, Section 513.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1-1993	3/1/1995	6/30/1998	Adopted Standard Except Part XIX and Part V, Section 513. Chapter 296-94 WAC replaced Part V, Section 513.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1-1996	6/30/1998	6/30/2004	Adopted Standard Except Part V, Section 513.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1-2000 A17.1a-2002 A17.1b-2003	7/1/2004	1/1/2008	Adopted Standards and Addenda Except Rules 2.4.12.2, 8.6.5.8 and Sections 5.4, 7.4, 7.5, 7.6, 7.9, 7.10, 8.10.1.1.3 and 8.11.1.1.
Safety Standards for Platform Lifts and Stairway Chairlifts	ASME A18.1-1999 A18.1a-2001 A18.1b-2001	7/1/2004	1/1/2008	Adopted Standards and Addenda.

NATIONAL ELEVATOR CODES AND SUPPLEMENTS ADOPTED				
TYPE OF CONVEYANCE	CODE AND SUPPLEMENTS	DATE INSTALLED		COMMENTS
		FROM	TO	
Safety Code for Elevators, Escalators, Dumbwaiters, Residential Elevators, Special Purpose	ASME A17.1-2004 A17.1a-2005	1/1/2008	1/1/2014	Adopted Standards and Addenda Except Rules 2.4.7.2, marked car top clearance space, 8.6.5.8, Maintenance of safety bulkhead, 5.4, Private residence incline elevators, 7.4 & 7.5 &7.9 & 7.10 Material lifts, 8.10.1.1.3 and 8.11.1.1, QEI-1 inspector.
Safety Code for Platform Lifts and Stairway Chairlifts	ASME A18.1-2005	1/1/2008	((~~1/1/2014~~)) 9/30/2018	
Safety Code for Belt Manlifts	ASME A90.1-2003	1/1/2008	((~~1/1/2014~~)) 9/30/2018	
Safety Code for Personnel Hoists, Retroactive	ANSI A10.4-2004	1/1/2008	((~~1/1/2014~~)) 9/30/2018	
Safety Code for Elevators, Escalators, Dumbwaiters, Residential Elevators, Special Purpose	ASME A17.1-2010	1/1/2014	((~~8/31/2018~~)) 9/30/2018	
Standard for Elevator Suspension, Compensation, and Governor Systems	ASME A17.6-2010	1/1/2014	Current	
Safety Code for Platform Lifts and Stairway Chairlifts	ASME A18.1-2011	1/1/2014	((~~8/31/2018~~)) 9/30/2018	
Safety Code for Belt Manlifts	ASME A90.1-2009	1/1/2014	((~~8/31/2018~~)) 9/30/2018	
Safety Code for Personnel Hoists	ANSI A10.4-2007	1/1/2014	((~~8/31/2018~~)) 9/30/2018	
Safety Code for Elevators, Escalators, Dumbwaiters, Residential Elevators, and Special Purpose	ASME A17.1-2016/CSA B44-16	((~~9/1/2018~~)) 10/1/2018	Current	
Guide for Inspection of Elevators, Escalators, and Moving Walks	ASME A17.2-2017	((~~9/1/2018~~)) 10/1/2018	Current	
Safety Code for Existing Elevators and Escalators	ASME A17.3-2015	((~~9/1/2018~~)) 10/1/2018	Current	
Safety Standards for Platform Lifts and Stairway Chair Lifts	ASME A18.1-2017	((~~9/1/2018~~)) 10/1/2018	Current	
Safety Code for Belt Manlifts	ASME A90.1-2015	((~~9/1/2018~~)) 10/1/2018	Current	
Safety Code for Personnel Hoists	ASSE/ANSI A10.4-2016	((~~9/1/2018~~)) 10/1/2018	Current	
Safety Code for Material Hoists	ASSE/ANSI A10.5-2013	((~~9/1/2018~~)) 10/1/2018	Current	

Note: Copies of codes and supplements can be obtained from the following: The American Society of Mechanical Engineers (ASME), Order Department 150 Clove Road, 6th Floor, Little Falls, New Jersey 07424-2138 or by visiting www.asme.org. The American Society of Safety Engineers (ASSE) 1800 East Oakton Street, Des Plaines, IL 60018-2187 or by visiting www.asse.org.

Comments: Codes adopted by this chapter will be identified with the applicable ASME/ANSI code reference number contained within the rules or as excluded or amended in WAC 296-96-00675.

AMENDATORY SECTION (Amending WSR 19-15-118, filed 7/23/19, effective 9/1/19)

WAC 296-96-00675 Amendments to adopted standards. (1) Exclude all references to QEI certification in ASME A17.1/CSA B44, ASME A18.1, and ANSI/ASSE A10.4 from code adoption.

(2) ASME A17.1/CSA B44, Section 1.2 Purpose and Exceptions amended as follows: The purpose of this code is to provide for the safety of life and limb, and to promote the public welfare. Compliance with these rules shall be achieved by:

(a) Conformance with the requirements in ASME A17.1/CSA B44 as amended by this chapter; or

(b) Conformance with a combination of requirements in ASME A17.1/CSA B44, this chapter, and ASME A17.7/CSA B44.7 with the following ASME A17.7/CSA B44.7 inclusions:

(i) All system or component certifications performed by an Accredited Elevator/Escalator Certification Organization (AECO) under ASME A17.7/CSA B44.7 shall be approved by the department before any such system or component is allowed to be permitted or installed in the state of Washington.

(ii) The applicant shall provide the certificate of certification for the device or system evaluated by an AECO.

(iii) The department has the final authority regarding acceptance of any item in ASME A17.7/CSA B44.7. The department may remove approval if a design has changed or unforeseen or undisclosed information is obtained.

(iv) The department will post the specific ASME A17.7/CSA B44.7 AECO certificate including exceptions agreed upon. At that time the certificate and exceptions become part of the adopted rule in the state of Washington and not subject to a variance process. The installer shall include the certificate and exceptions and all required information on each conveyance installed utilizing the ASME A17.7/CSA B44.7 method in the Maintenance Control Program documentation.

(v) The department may charge an additional fee for each item in review based upon the variance fee table.

(c) Additions or modifications to adopted standards and/or this chapter shall require approval from the department.

(3) ASME A17.1/CSA B44, Section 5.8, Marine Elevators. This section only applies to elevators installed on board a marine vessel flying the Washington state flag and under one hundred gross metric tons.

(4) ASME A17.1/CSA B44, Section 5.11, Wind Turbine Elevator is not adopted.

(5) Periodic tests and inspections. Pursuant to requirements 8.6.1.7 and 8.11.1.3, the department adopts ASME A17.1/CSA B44, Appendix N for the frequency of periodic tests. Pursuant to RCW 70.87.120 (2)(a) periodic inspections shall be performed annually.

(6) ASME A17.1/CSA B44 requirement 8.11.1.1.2 is not adopted. The department shall be permitted to witness periodic tests when the department deems necessary.

(7)((~~(a)~~)) ASME A17.1-2016/CSA B44-16, 8.6.11.1 Firefighters' Emergency Operation is amended as follows: All elevators provided with firefighters' emergency operation shall be subjected quarterly, by authorized personnel, to Phase I recall by use of the keyed switch, and a minimum of one-floor operation on Phase II. Deficiencies shall be corrected. A record of findings shall be available to elevator personnel and the authority having jurisdiction.

((~~(b)~~)) (8) Append ASME A17.1-2016/CSA B44-16, 8.6.4.19.6 as follows: At least once each year, the fire alarm initiating devices associated with elevator recall and shunt trip initiating devices shall be tested to ensure they are still properly interfaced with the elevator control.

This test applies to electric and hydraulic elevators.

(9) ASME A17.3 requirement 3.10.3 is modified as follows: Where the car top stop switch located in the inspection control station is not accessible from the landing, a separate car top stop switch shall be provided as required by ASME A17.1/CSA B44, 2.26.1.4.2(a).

(10) The department will not allow the 8.6.11.10 "Category 5 Tests Without Load Via Alternative Test Methodologies" portion of ASME A17.1 to be followed in Washington. Standard testing as outlined in ASME A17.1 shall be followed.

AMENDATORY SECTION (Amending WSR 18-18-068, filed 8/31/18, effective 10/1/18)

WAC 296-96-00904 License requirements for elevator contractors. (1) Any sole proprietor, firm or corporation wishing to engage in the business of installation, alteration, service, replacement of maintenance of equipment covered by this chapter within the state of Washington shall apply for a license with the department of labor and industries.

The entities above shall obtain and maintain a valid specialty or general contractor registration under chapter 18.27 RCW to engage in the business of conveyance work.

(2) The potential licensee shall complete and submit a department-approved application. As part of the application the following shall be provided:

(a) The employee who is the licensed elevator contractor's primary point of contact.

(b) The number of years the applicant has been engaged in the business of installing, constructing, altering, replacing, maintaining, removing, dismantling and/or servicing conveyances.

(c) Documentation that at least one licensed elevator mechanic is employed by the applicant.

(3) The person representing the company, firm or corporation who is applying for the elevator contractor's license shall be considered the company's primary point of contact and shall:

(a) Provide acceptable proof to the department that shows that the person representing the company, firm, or corporation has five years of work experience in performing conveyance work as verified by current and previous state of Washington elevator licenses; or

(b) Pass a written examination administered by the department on chapter 70.87 RCW and this chapter with a minimum score of seventy percent.

(c) Failure to pass the examination will require the submittal of a new application.

(4) Pay the fees specified in WAC 296-96-00922.

(5) The department may deny application or renewal of a license under this section if the applicant owes outstanding final judgments to the department.

(6) If the primary point of contact identified in subsection (2)(a) of this section separates employment, his/her relationship or designation is terminated, or death of the designated individual occurs, the elevator contractor shall, within ninety days, designate a new individual who has met the requirement noted above to serve as the elevator contractor's primary point of contact. The elevator contractor shall inform the department of the change in writing or the contractor's license will be automatically suspended.

(7) Where unique or product-specific procedures or methods are required to inspect or test equipment, such procedures, or methods shall be:

(a) Provided in the maintenance control program.

(b) Provided by the manufacturer or installer or their license may be suspended.

(c) Available to owners for their use or used by their qualified service provider.

(d) Accessible on-site to elevator personnel (see also ASME A17.1-8.6.1.2.1(f)).

(e) Where special tools or devices are necessary for maintenance and testing of conveyances, they shall remain on-site for the life of the conveyance.

(8) Contractor licenses may be revoked for failure to comply with this subsection.

Legal maintenance contracts notwithstanding, all elevator companies and other approved maintenance providers (see RCW 70.87.270) who continuously demonstrate noncompliance with the maintenance, examination, testing, documentation, and performance of work outlined in ASME A17.1/CSA B44 and this chapter shall:

(a) Be notified in writing by the department outlining the reason or reasons for noncompliance;

(b) Respond to the department inquiry within fifteen days;

(c) Outline a solution(s) agreeable to the department within thirty days;

(i) Otherwise the elevator company's license may be suspended until such a time as they can demonstrate compliance; and

(ii) Other approved maintenance providers shall cease maintenance, examination, and testing until such a time as they can demonstrate compliance. Continuous demonstrations of maintenance, examination, and testing noncompliance shall result in approval being revoked.

AMENDATORY SECTION (Amending WSR 19-24-086, filed 12/3/19, effective 12/3/19)

WAC 296-96-00906 License requirements for elevator mechanics. (1) Any person wishing to engage in the installation, alteration, service, replacement or maintenance of equipment covered by this chapter within the state of Washington shall apply for a license with the department of labor and industries.

(2) Applicants for a category (01) license as identified under WAC 296-96-00910 shall demonstrate at least one of the following qualifications in order to obtain a license without an exam:

(a) Successfully completed an apprenticeship training program for elevator mechanics and have passed the final examination required by such program; or

(b) Performed at least five thousand four hundred hours of acceptable work experience in construction, installation, maintenance, service or repair of elevators or other conveyances subject to this chapter, as verified by current and prior employers, and have passed a nationally recognized elevator mechanic's examination, such as that administered by the National Elevator Industry Education Program or as approved by the department; or

(c) Possess an elevator mechanic's license from another state that has standards substantially equal to those established in this chapter.

(3) Any person wishing to obtain a category (01) license coming from another state without licensing may obtain a license with examination by paying the required fee and submitting an application with documentation demonstrating the applicant has worked as an elevator mechanic without supervision for at least five thousand four hundred hours.

(4) Conditions for temporary elevator mechanics: In the event an elevator contractor encounters a verifiable shortage of licensed mechanics, an elevator contractor may request that the department issue temporary elevator mechanic licenses to persons certified by the licensed elevator contractor to have an acceptable combination of documented experience and education to perform elevator work without direct and immediate supervision. Each license shall recite that it is valid for one year to the holder as long as he or she is employed by the licensed elevator contractor that certified the individual as qualified.

As part of the initial licensing process the applicant shall((÷)) have seventy-five percent of both education and training hours to obtain a license (see WAC 296-96-00908).

(5) Conditions for emergency elevator mechanics: If the governor should declare a state of emergency due to a disaster, or an act of God, or other extenuating circumstances and the number of persons in the state holding valid licenses is insufficient to cope with the emergency, an elevator contractor may request emergency elevator mechanic licenses for persons who are not licensed to perform work subject to this chapter but are certified by the elevator contractor to have an acceptable combination of documented experience and education to perform elevator work without direct and immediate supervision. Each such license shall be valid for a period of thirty days and renewable as long as the emergency exists.

(6) The department may deny renewal or application, or suspend an individual's license if they have an outstanding final judgment.

(7) Qualify for licensing:

(a) For conveyance work covered by all categories identified in WAC 296-96-00910 except personnel hoists (04), material lifts (05), residential conveyances (06), residential inclined elevators (07) and temporary licenses (09), the applicant shall comply with the applicable mechanic licensing requirements as follows:

(i) Test.

(A) The applicant shall provide acceptable proof to the department that shows the necessary combination of documented experience and education credits in the applicable license category (see WAC 296-96-00910) of not less than three years' work experience in the elevator industry under the general direction of a licensed elevator mechanic performing conveyance work in the same category as verified by current and previous employers licensed to do business in this state or as an employee of a public agency;

Acceptable proof may include department-approved forms documenting years of experience, affidavits, letters from previous employers, declarations of experience, education credits, copies of contractor registration information, etc. Additional documentation may be requested by the department to verify the information provided on the application; and

(B) Pass an examination administered by the department on chapter 70.87 RCW and this chapter with a minimum passing score of eighty percent; or

(ii) National exam/education.

(A) Have obtained a certificate of completion and successfully passed the mechanic examination of a nationally recognized training program for the elevator industry such as the National Elevator Industry Educational Program or its equivalent; or

(B) Have obtained a certificate of completion of an apprenticeship program for an elevator mechanic, having standards substantially equal to those of chapter 70.87 RCW and this chapter, and registered with the Washington state apprenticeship and training council under chapter 49.04 RCW; or

(iii) Reciprocity. The applicant shall provide acceptable proof to the department that shows that the applicant is holding a valid license from a state having entered into a reciprocal agreement with the department and having standards substantially equal to those of chapter 70.87 RCW and this chapter.

(b) For conveyance work performed on personnel hoists as identified in WAC 296-96-00910(4):

(i) Test. The applicant shall provide acceptable proof to the department that shows the necessary combination of documented experience and education credits in the applicable license category (see WAC 296-96-00910) of not less than one year's work experience in the elevator industry or not less than three years (for the purpose of this category one year will be equivalent to seven hundred hours) documented experience and education credits in conveyance work under the general direction of a licensed elevator mechanic as described in category (04) performing conveyance work in the same category as verified by current and previous employers licensed to do business in this state; and

(ii) Pass an examination administered by the department on chapter 70.87 RCW, A10.4 and this chapter <u>with a minimum passing score of eighty percent</u>.

(iii) Reciprocity. The applicant shall provide acceptable proof to the department that shows the applicant is holding a valid license from a state having entered into a reciprocal agreement with the department and having standards substantially equal to those of chapter 70.87 RCW and this chapter.

(c) For conveyance work performed on material lifts as identified in WAC 296-96-00910(5):

(i) Test. The applicant and the licensed elevator contractor/employer shall comply with the provisions of RCW 70.87.245; and

(ii) The applicant shall pass an examination administered by the department on chapter 70.87 RCW and this chapter <u>with a minimum passing score of eighty percent</u>;

(d) For residential conveyance work covered by category (06) as identified in WAC 296-96-00910:

(i) Test. The applicant shall provide acceptable proof to the department that shows the necessary combination of documented experience and education credits in the applicable license category (see WAC 296-96-00910) of not less than two years' work experience in the elevator industry performing conveyance work as verified by current and previous employers licensed to do business in this state; and

(ii) Pass an examination administered by the department on chapter 70.87 RCW and this chapter <u>with a minimum passing score of eighty percent</u>.

(e) For residential inclined conveyance work covered by category (07) as identified in WAC 296-96-00910;

(i) Test. The applicant shall provide acceptable proof to the department that shows the necessary combination of documented experience

and education credits in the applicable license category (see WAC 296-96-00910) of not less than one year's work experience in the elevator industry or not less than three years' documented experience and education credits in conveyance work as described in category (01) performing conveyance work as verified by current and previous employers licensed to do business in this state; and

(ii) Pass an examination administered by the department on chapter 70.87 RCW and this chapter with a minimum passing score of eighty percent.

(f) For temporary mechanic licenses as identified in WAC 296-96-00910 category (09) the applicant shall provide acceptable proof from a licensed elevator contractor that attests that the individual is competent to perform work under chapter 70.87 RCW and this chapter.

(8) Complete and submit a department-approved application.

An applicant who is required to take an examination under the provisions of this section may not perform the duties of a licensed elevator mechanic until the applicant has been notified by the department that he/she has passed the examination.

(9) Pay the fees specified in WAC 296-96-00922.

(10) The department may deny application of a license under this section if the applicant owes outstanding final judgments to the department or does not meet the minimum criteria established in the elevator laws and rules.

AMENDATORY SECTION (Amending WSR 18-18-068, filed 8/31/18, effective 10/1/18)

WAC 296-96-00910 Elevator mechanic license categories. The following are the licensing categories for qualified elevator mechanics or temporary elevator mechanics:

(1) **Category (01):** A general elevator mechanic license encompasses the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of all types of elevators and other conveyances in any location covered under chapter 70.87 RCW and this chapter.

(2) **Category (02):** This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of the following commercial and residential conveyances:

(a) Residential conveyances:

(i) Wheelchair lifts*;

(ii) Dumbwaiters;

(iii) Incline chairlifts*; and

(iv) Residential elevators.

*License is not required to remove these.

(b) Commercial conveyances:

(i) Wheelchair lifts;

(ii) Dumbwaiters;

(iii) Incline chairlifts; and

(iv) LULA elevators.

(3) **Category (03):** This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, remov-

al, and repair of the following conveyances in industrial sites and grain terminals:

(a) Electric and hand-powered manlifts;

(b) Special purpose elevators; and

(c) Belt manlifts.

(4) **Category (04):** This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of the following conveyances:

(a) Temporary personnel hoists; and

(b) Temporary material hoists((~~; and~~

~~(c) Special purpose elevators~~)).

(5) **Category (05):** This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of material lifts.

(6) **Category (06):**

(a) This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, and repair of the following conveyances:

(i) Residential wheelchair lifts;

(ii) Residential dumbwaiters; and

(iii) Residential incline chairlifts.

(b) Work experience on conveyances in (a)(i), (ii), and (iii) of this subsection may not be all inclusively applied toward the category (02) license requirements.

Note: Maintenance work performed by the owner or at the direction of the owner is exempted from licensing requirements if the owner resides in the residence at which the conveyance is located and the conveyance is not accessible to the public. Such exempt work does not count toward work experience for licensure.

(7) **Category (07):** This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, and repair of residential inclined elevators.

Note: Maintenance work performed by the owner or at the direction of the owner is exempted from licensing requirements if the owner resides in the residence at which the conveyance is located and the conveyance is not accessible to the public. Such exempt work does not count toward work experience for licensure.

(8) **Category (08):** This license is limited to maintenance and nonalteration repair and replacement of all conveyances and is further limited to employees of public agencies to obtain and maintain the license. This work should not count towards other licenses.

(9) **Category (09):** A temporary license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of conveyances in the category for which the license is sought. The license shall be issued pursuant to the conditions of RCW 70.87.250.

(10) **Category (10):** An emergency license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of conveyances by elevator mechanics that are certified by an elevator contractor to have an acceptable combination of documented experience and education to perform elevator work without direct and immediate supervision and is further limited for use during a state of emergency.

AMENDATORY SECTION (Amending WSR 19-24-086, filed 12/3/19, effective 12/3/19)

WAC 296-96-00912 License renewal requirements. (1) An elevator contractor or elevator mechanic license issued pursuant to this chapter shall be valid for a period of two years and may be renewed by submission of a renewal application to the department, payment of a renewal fee as specified in WAC 296-96-00922 and proof of compliance with the requirements of this chapter.

(a) Elevator contractor licenses expire on the calendar date two years from issuance.

Upon applying for renewal the elevator contractor shall verify the primary point of contact information is correct.

(b) Elevator mechanic licenses expire on the licensee's birth date in the calendar year two years from the year of application. It is noted that the initial license term may be valid for a longer or shorter period of time depending on when the licensee's birthday falls compared to the date on which the initial license was issued.

(i) If a license is issued in an even-numbered year, the license will expire on the license holder's birth date in the next even-numbered year.

(ii) If a license is issued in an odd-numbered year, the license will expire on the license holder's birth date in the next odd-numbered year.

(c) Renewal of an elevator mechanic license shall be conditioned upon completion of not less than eight hours of instruction within one year immediately preceding a license renewal application and submission of a certificate of completion for the course. Continuing education courses and instructors shall be approved by the department.

(2) Temporary elevator mechanics (category (09)). A temporary elevator mechanic license may be renewed at the discretion of the department. Examples include, but are not limited to, abnormally high rate of construction or natural disaster.

(a) The renewal period is one year from the date of issuance.

(b) As part of the renewal process the applicant shall:

(i) Complete and submit a department-approved application.

(ii) Pay the fees specified in WAC 296-96-00922.

(iii) Have seventy-five percent of both education and training hours to obtain a license (see WAC 296-96-00908).

Note: The department may require the applicant demonstrate more than seventy-five percent of education hours if multiple temporary licenses are requested.

(3) The department may deny renewals of licenses under this section if the applicant owes outstanding final judgments to the department. Final judgment also includes any penalties assessed against an individual or firm owed the department because of an unappealed civil penalty or any outstanding fees due under chapter 70.87 RCW and this chapter.

(4) Renewals will be considered timely when the renewal application is received on or prior to the expiration date of the license.

(5) Renewals are considered late if the renewal applications are received after the expiration date of the license but no later than ninety days after the expiration of the licenses. If the application is not received within ninety days from license expiration, the licensee must reapply and pass the competency examination.

(6) A mechanic licensed in the state of Washington may take a withdrawal if they are no longer working for a company licensed in the

state or no longer performing work that requires a license. A mechanic holding a valid license that wishes to withdraw their license shall submit their request, in writing, to the department of labor and industries elevator section prior to the license expiration date. To cancel a withdrawal request and be reinstated, the mechanic shall submit their request in writing, reapply, complete the required continuing education, and pay the renewal licensing fee.

AMENDATORY SECTION (Amending WSR 18-18-068, filed 8/31/18, effective 10/1/18)

WAC 296-96-00916 Continuing education course provider requirements. (1) The department approves continuing education course providers.

(2) The department will review and approve courses.

(a) All providers seeking course approval shall submit the required information to the department on a form provided by the department.

(b) The courses shall be taught by instructors through continuing education providers; courses may include, but are not limited to, association seminars and labor training programs.

(c) All instructors shall be approved by the department and are exempt from the requirements of WAC 296-96-00912 (2)(b)(ii) regarding his or her application for license renewal, provided that such applicant was qualified as an instructor at any time during the one year immediately preceding the scheduled date for such renewal and the instructor shall have taught two or more courses in the year preceding the renewal.

(d) All training courses shall conform to and be based upon current standards and requirements governing the operation, construction, installation, alteration, inspection and repair of elevators and other conveyances.

(e) All course approval requests shall include:

(i) A general description of the course, including its scope, the instructional materials to be used and the instructional methods to be followed;

(ii) A detailed course outline;

(iii) A sample copy of the certificate that will be provided to the attendee. The certificate shall note the name of the course, the number of hours as approved by the department, a course number if one has been assigned by the provider, the date the education was completed and the instructor's signature and the student's signature. The certificate must state that it is not valid without the signatures of the instructor and the student.

(iv) The name and qualifications of the course instructor(s);

(v) The locations where the course will be taught;

(vi) The days and hours the course will be offered; and

(vii) The specific fees associated with the course, as well as, the total cost of the course.

(f) Training courses will be approved for a two-year period.

(g) It is the responsibility of the provider to annually review and update its courses and to notify the department of any changes.

(h) The department may withdraw its approval of any training course if it determines the provider is no longer in compliance with

the requirements of this chapter. If the department withdraws its approval of a training course, it will give the provider written notification of the withdrawal, specifying the reasons for its decision.

(i) Approved training providers shall keep uniform records, for a period of ten years, of attendance of licensees and these records shall be available for inspection by the department at its request. The provider shall submit a list of names of the attendees to the department on or before thirty days after the date of the course being held. Approved training providers are responsible for the security of all attendance records and certificates of completion. Falsifying or knowingly allowing another to falsify attendance records or certificates of completion constitutes grounds for suspension or revocation of the approval required under this section.

AMENDATORY SECTION (Amending WSR 19-24-086, filed 12/3/19, effective 12/3/19)

WAC 296-96-00922 Licensing fees. The following are the department's elevator license fees:

Type of Fee	Period Covered by Fee	Dollar Amount of Fee
Elevator contractor/ mechanic application fee (not required for renewal of valid license)	Per application	$((~~66.80~~)) 70.10
Elevator contractor/ mechanic examination fee	Per application	$((~~201.30~~)) 211.50***
Reciprocity application fee	Per application*	$((~~66.80~~)) 70.10
Elevator mechanic license	2 years	$((~~134.10~~)) 140.90
Elevator contractor license	2 years	$((~~134.10~~)) 140.90
Temporary elevator mechanic license application fee (not required for renewal)	Per application	$((~~66.80~~)) 70.10
Temporary elevator mechanic license	1 year	$((~~134.10~~)) 140.90
Emergency elevator mechanic license	30 days	$((~~33.20~~)) 34.80
Elevator mechanic/ contractor timely renewal fee	2 years	$((~~134.10~~)) 140.90
Elevator mechanic/ contractor late renewal fee	2 years	$((~~268.60~~)) 282.20

Type of Fee	Period Covered by Fee	Dollar Amount of Fee
Temporary elevator mechanic timely renewal fee	1 year	$((~~134.10~~)) 140.90
Temporary elevator mechanic late renewal fee	1 year	$((~~268.60~~)) 282.20
Training provider application/ renewal fee	2 years	$((~~134.10~~)) 140.90
Continuing education course fee by approved training provider	1 year**	Not applicable
Replacement of any licenses		$((~~19.90~~)) 20.90
Refund processing fee		$((~~40.00~~)) 42.00

* Reciprocity application is only allowed for applicants who are applying for licensing based upon possession of a valid license that was obtained in state(s) with which the department has a reciprocity.
** This fee is paid directly to the continuing education training course provider approved by the department.
***This fee may be collected by an outside vendor for some exams and may differ from the fee shown above.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01005 Obtaining permits. (1) See WAC 296-96-01000 for the permit process.

(2) Construction and alteration permits are valid for one year from the date of issue. However, permits may be renewed if:

(a) Application for a renewal permit is submitted before the current permit expires;

(b) The department approves the request for a renewal permit; and

(c) A renewal fee of $((~~60.60~~)) 63.60 is paid to the department for each permit renewed;

(3) If the permit has expired the applicant shall reapply for a new permit.

(4) See WAC 296-96-01006 for work requiring a permit.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01010 Installation and alteration permit fees. Permit fees are based on the total cost of the conveyance or alteration and the labor to install or alter the conveyance. The following permit fees apply to the construction, alteration, or relocation of all conveyances except personnel and material hoists (see WAC 296-96-01025):

TOTAL COST OF INSTALLATION OR ALTERATION	FEE
$0 to and including $1,000	$((~~66.80~~)) 70.10
$1,001 to and including $5,000	$((~~100.30~~)) 105.40
$5,001 to and including $7,000	$((~~167.60~~)) 176.10
$7,001 to and including $10,000	$((~~201.30~~)) 211.50
$10,001 to and including $15,000	$((~~268.60~~)) 282.20
OVER $15,000 for installation only*	$((~~376.00~~)) 395.10 plus
OVER $15,000 for alteration only*	$((~~268.60~~)) 282.20
*Each additional $1,000 or fraction thereof	$((~~9.20~~)) 9.60

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01025 Permit fees for personnel and material hoists. The fee for each personnel hoist or material hoist installation is $((~~268.60~~)) 282.20.

See WAC 296-96-01035(2) for requirements for jumps.

Note: An operating certificate is also required for these types of conveyances.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01027 Permit fee refunds. The initial installation permit fees are refundable minus a processing fee if the installation work has not been performed. No refunds will be issued for expired permits. All requests for refunds shall be submitted in writing to the elevator section and shall identify the specific permits and the reasons for which the refunds are requested.

The processing fee for each refund is $((~~40.00~~)) 42.00.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01030 Plan approval. Prior to the start of construction and the issuance of a permit, the applicant shall submit to the department for approval a permit application and plans for new installations or major alterations. To be approved, the plan shall comply with the latest adopted applicable standard and applicable Washington Administrative Code (WAC). In addition, the plans shall include all information necessary to determine whether each installation/alteration complies with all applicable codes. The permit holder shall keep a copy of the approved plan on the job site until the department has

witnessed all acceptance tests. Any alterations to the approved plan shall be submitted to the department for approval before a final inspection will be conducted. The nonrefundable fees for ((~~reviewing the plans~~)) processing the applications are $((~~33.20~~)) 34.80 for each installation/major alteration.

Exception: Residential incline chair lifts will not require plan review. Equipment shall be listed and labeled by a product testing laboratory which is accredited by the department and plans supplied by the manufacturer shall be on-site. If the equipment is not listed and labeled as per RCW 19.28.010 it shall be field evaluated or replaced with equipment that is listed and labeled by a product testing laboratory which is accredited by the department. The department may request additional information as deemed necessary to determine if lifts comply with current codes and testing standards. Governor overspeed safety testing shall be verified by manufacturer's documentation (see A18.1 Requirement 9.9.3). The test results certified by, a nationally recognized testing laboratory (NRTL). Certification shall be provided at time of application.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01035 Inspection fees. The initial inspection of construction, alteration or relocation of a conveyance is included with the permit fee. Once the department has approved the initial installation of the conveyance, a temporary 30-day operating certificate will be issued. Prior to the expiration of the 30-day temporary operating certificate, the application for an annual operating certificate and the appropriate fees shall be paid to the department. Once the department has received the appropriate fees and application the owner will be issued the first annual operating certificate. The owner or owner's representative will receive an invoice from the department for renewal. The owner is required to renew the annual operating certificate yearly.

The following inspections require an additional inspection fee:

(1) **Reinspection.** If a conveyance does not pass an initial inspection and an additional inspection is required, the fee for each reinspection of a conveyance is $((~~134.10~~)) 140.90 per conveyance plus $((~~65.10~~)) 68.40 per hour for each hour in addition to the first hour.

The department may waive reinspection fees.

(2) **Inspecting increases in the height (jumping) of personnel and material hoists.**

The fee for inspecting an increase in the height (jumping) of each personnel hoist or material hoist is $((~~134.10~~)) 140.90 plus $((~~66.80~~)) 70.10 per hour for each hour in addition to 2 hours. This fee is for inspections occurring during regular working hours.

The permit holder may be allowed to operate a hoist prior to the jump inspection if:

(a) The electrical limits will not allow the lift to operate above the previously inspected landing; and

(b) The state elevator inspector is contacted, agrees and can schedule an inspection within 3 days.

(3) **Variance inspections.**

(a) The fee for an on-site variance inspection is $((~~201.30~~)) 211.50 per conveyance plus $((~~66.80~~)) 70.10 per hour for each hour in addition to 2 hours. This fee is for inspections occurring during regular working hours.

(b) The fee for a variance that does not require an on-site inspection is $((~~66.80~~)) 70.10 per conveyance. The individual requesting the variance shall provide the department with pictures, documentation, or other information necessary for the department to review the variance. The department may conduct an on-site variance inspection to

verify the information provided or if it determines that an inspection is necessary. If an on-site variance inspection is performed, the fees in (a) of this subsection will apply.

(4) **"Red tag" status fee.** The annual fee for a conveyance in "Red tag" status is $((~~33.20~~)) 34.80.

Note: The department shall be provided with written approval from the building official, indicating that the conveyance is not required for building occupancy, when applying to have the conveyance placed in voluntary red tag status.

(5) **Decommission inspection.** The fee for performing a decommission inspection is $((~~66.80~~)) 70.10. Once the decommission inspection has been performed and approved, the conveyance will no longer require annual inspections until such time that the conveyance is brought back into service. Prior to operating the conveyance, a new inspection and annual operating permit shall be obtained.

(6) **Voluntary inspections by request.** The owner or potential purchaser of a building within the department's jurisdiction may request a voluntary inspection of a conveyance. The fee for this inspection will be $((~~134.10~~)) 140.90 per conveyance and $((~~66.80~~)) 70.10 per hour for each hour in addition to 2 hours plus the standard per diem and mileage allowance granted to department inspectors. The owner/potential purchaser requesting the voluntary inspection will not be subject to any penalties based on the inspector's findings.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01040 Construction-use inspection fee. (1) The fee for the inspecting and testing of elevators used for construction is $((~~107.20~~)) 112.60, in addition to any other fees required in this chapter. This fee purchases a 30-day temporary use permit that may be renewed at the department's discretion.

(2) When this temporary use permit is purchased, a notice declaring that the equipment has not received final approval from the department shall be conspicuously posted in the elevator.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01045 Residential elevator inspection and fees. (1) Chapter 70.87 RCW requires the department to inspect all new, altered or relocated conveyances operated exclusively for single-family use in private residences. Prior to installation, a licensed elevator contractor shall complete a permit application as described in WAC 296-96-01005 and pay the appropriate fee listed in WAC 296-96-01010.

(2) Chapter 70.87 RCW allows the department to inspect conveyances operated exclusively for single-family use in private residences when the department is investigating an accident or an alleged or apparent violation of the statute or these rules.

(3) No annual inspection and operating certificate is required for a private residence conveyance operated exclusively for single-family use unless the owner requests it. When an owner requests an in-

spection and an annual operating certificate, the following fee shall be paid prior to an inspection:

TYPE OF CONVEYANCE	FEE
Each inclined stairway chair lift in private residence	$((~~31.20~~)) 32.70
Each inclined wheel chair lift in a private residence	$((~~31.20~~)) 32.70
Each vertical wheel chair lift in a private residence	$((~~39.30~~)) 41.30
Each dumbwaiter in a private residence	$((~~31.20~~)) 32.70
Each inclined elevator at a private residence	$((~~111.50~~)) 117.10
Each private residence elevator	$((~~71.80~~)) 75.40
Duplication of a lost, damaged or stolen operating permit	$((~~13.10~~)) 13.70

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01055 Technical services and consultations. A person, firm, corporation, or governmental agency may request elevator field technical services from the department by paying a fee of $((~~80.30~~)) 84.30 per hour or any portion thereof (including travel time) plus the standard per diem and mileage allowance granted to department inspectors. These field technical services may include code evaluation, code consultation, plan examination, code interpretation, and clarification of technical data relating to the application of the department's conveyance rules. Field technical services do not include inspections.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01057 Accident investigations. The department shall investigate an injury-related accident reported by the owner or owner's duly authorized agent. The department may charge at a rate of $((~~80.30~~)) 84.30 per hour or portion thereof (including travel time) plus the standard per diem and mileage allowance granted to department inspectors.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01060 Inspections after normal business hours. An inspection outside of normal business hours and business days (i.e.,

Monday through Friday excluding holidays; 7:00 a.m. to 5:00 p.m.) may be requested under the following conditions:

(1) An inspector is available; and

(2) The inspection is authorized by the department.

(3) The minimum fee for an after-hours inspection is $((~~100.30~~)) 105.40 and $((~~100.30~~)) 105.40 per hour for each hour in addition to the first hour plus the standard per diem and mileage allowance granted to department inspectors.

(4) This fee is in addition to any other fees required for the project.

AMENDATORY SECTION (Amending WSR 18-24-102, filed 12/4/18, effective 1/4/19)

WAC 296-96-01065 Annual operating permit fees. An annual operating certificate will be issued to the building owner upon payment of the appropriate fee. The owner of record shall be invoiced by the department. If a change of ownership has occurred, it is the new owner's responsibility to ensure the department has the corrected information. Below is the fee structure table:

TYPE OF CONVEYANCE	FEE
Each hydraulic elevator	$((~~134.10~~)) 140.90
Each roped-hydraulic elevator	$((~~167.60~~)) 176.10
plus for each hoistway opening in excess of two	$((~~13.10~~)) 13.70
Each cable elevator	$((~~167.60~~)) 176.10
plus for each hoistway opening in excess of two	$((~~13.10~~)) 13.70
Each cable elevator traveling more than 25 feet without an opening—for each 25 foot traveled	$((~~13.10~~)) 13.70
Each limited-use/limited-application (—LULA) elevator	$((~~134.10~~)) 140.90
Each escalator	$((~~111.40~~)) 117.00
Each dumbwaiter in other than a private residence	$((~~71.80~~)) 75.40
Each material lift.	$((~~134.10~~)) 140.90
Each incline elevator in other than a private residence	$((~~144.20~~)) 151.50
Each belt manlift	$((~~134.10~~)) 140.90
Each stair lift in other than a private residence	$((~~71.80~~)) 75.40
Each wheel chair lift in other than a private residence	$((~~71.80~~)) 75.40
Each personnel hoist	$((~~134.10~~)) 140.90

TYPE OF CONVEYANCE	FEE
Each grain elevator personnel lift	$((~~111.40~~)) 117.00
Each material hoist	$((~~134.10~~)) 140.90
Each special purpose elevator	$((~~134.10~~)) 140.90
Each private residence elevator installed in other than a private residence	$((~~134.10~~)) 140.90
Each casket lift	$((~~111.40~~)) 117.00
Each sidewalk freight elevator	$((~~111.40~~)) 117.00
Each hand-powered manlift or freight elevator	$((~~75.50~~)) 79.30
Each boat launching elevator	$((~~111.40~~)) 117.00
Each auto parking elevator	$((~~111.40~~)) 117.00
Each moving walk	$((~~111.40~~)) 117.00
Duplication of a damaged, lost or stolen operating permit	$((~~13.10~~)) 13.70

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02410 Alterations. (1) Where there is an associated seismic or ADA requirement to the equipment or system being altered, the equipment shall also be brought into compliance with the applicable seismic and/or ADA requirements during the alteration.

(2) Machine room, control room, machinery space, and control space illumination shall be required to meet the minimum illumination levels as required by the latest adopted code.

(3) Where a new jack assembly or hydraulic pump unit is installed, a seismic (overspeed) valve shall be installed according to ASME A17.1/CSA B44, Section 8.4.11.

(4) When new elevator equipment is installed in a machine or control room, receptacles shall comply with current adopted edition of NFPA 70 (see Art. 620.23).

(5) When new equipment is installed in the elevator pit, illumination levels shall be required to meet the minimum illumination levels required by the current adopted edition of ASME A17.1/CSA B44. Receptacles in the pit area shall be of the GFCI type (see NFPA 70, Art. 620.24).

(6) Where the main line disconnect is being replaced or relocated, and the machine room or hoistway is sprinklered, or in the process of being sprinklered, a shunt-trip device shall be installed.

Section 4
Machine Space in Hoistways

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02452 Access to machines, overhead sheaves, shackles, and hitch supports. When the machine space is provided inside the hoistway, maintainable items on the machine, overhead sheaves, shackles, and hitch supports shall not be located more than ((~~six feet six inches~~)) 78 in. from the horizontal plane of the car top.

Section ((4)) 5
Main Line Disconnects and Shunt-Trip Breakers

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02460 Location. (1) The main line disconnect(s) shall be located per NFPA 70, Article 620.51(c) and:

(a) Inside the machine room door on the strike side of the machine or control room door;

(b) Not more than ((~~twenty-four inches~~)) 24 in. from the door to the operating handle; and

(c) Be at a height not less than ((~~thirty-six inches~~)) 36 in. nor more than ((~~sixty-six inches~~)) 66 in. above the finish floor as measured centerline to the disconnect handle.

(2) For multicar machine rooms the switches shall be grouped together as close as possible to that location.

(3) For machine rooms with double swing doors, the doors shall swing out and the switch(es) shall be located on the wall adjacent to the hinge side of the active door panel.

(4) Shunt-trip breakers, where provided, shall be located in the elevator machine room or control room.

(5) Where shunt-trip breakers are also being used as a main line disconnect, they shall comply with subsections (1) through (3) of this section.

EXCEPTION: Special purpose, residential elevators, and residential inclined elevators are exempt from this section. For LULAs, the main disconnect and car light disconnect shall be located adjacent to the controller when not located in a dedicated machine room. When a machine room is provided it shall comply with this section.

Section ((~~5~~)) 6
Additional Machine/Control Room Requirements

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02465 Machine rooms, control rooms, and control spaces. (1) The lighting control switch shall be located inside the machine room or control room within ((~~twenty-four inches~~)) 24 in. of the lock jamb side of the access door.

For machine rooms and control rooms with double swing doors, the doors shall swing out and the switch(es) shall be located on the wall adjacent to the hinge side of the active door panel.

(2) Elevator machine room, control room, and control space access doors shall be provided with a sign that reads "Elevator Equipment Room/Authorized Personnel Only! Storage of equipment not pertaining to the elevator is prohibited." The sign shall be located approximately 60 in. above floor level. Lettering shall not be less than 0.375 in. in height and shall contrast with the background. Where double doors are provided, the sign is only required to be provided on the active door panel.

EXCEPTION: Residential conveyances, LULAs and special purpose elevators are exempted from these requirements.

(3) The temperature and humidity shall comply with ASME A17.1/CSA B44. Where no manufacturer's temperature range is available, the room or space shall be kept between 13°C (55°F) and 38°C (100°F).

Section 7
Fire Service, Sprinklers, Sprinkler Pipes, Shunt Trip

((~~Car(s)~~))

Section ((6)) 8
Correction Facility Elevators

Section 9
Additional Requirements

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02530 Handrails. Handrails are not required. Where handrails are provided in elevator cars, ((~~their configuration~~)) they shall comply with ((~~ADAAG or ICC A117.1~~)) the following:

(1) Be securely attached to the wall;

(2) Be located at a height between 32 in. and 38 in. from the top of the handrail to the floor; and

(3) Be constructed with smooth surfaces and no sharp corners; and

(4) Be configured with a gripping surface as required by ANSI/ICC A117.1 for handrails.

((**~~Note:~~**)) **Exception:** Residential conveyances are excluded from this requirement.

Section 10
Hoistway and Pit

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02552 Location of equipment in hoistway. Elevator equipment shall be permitted to be located within the hoistway subject to the requirements in ASME A17.1/CSA B44 and the following:

(1) Where an elevator cannot be prevented from movement electrically and mechanically prior to entering the ((~~hoistway or~~)) pit area((~~, the following restrictions shall apply:~~

~~(a)~~)) motor controllers, motion controllers, drives, hydraulic control valves, hydraulic reservoirs (tank), ((~~and~~)) hydraulic pump motors, and driving machines shall not be located in the ((~~hoistway or~~)) pit.

((~~(b) Driving machines shall not be located in the pit.~~))

(2) ((~~The ability to activate the~~)) Where a means is used to secure the elevator electrically and mechanically prior to entering the pit, the means shall be designed such that the activation can be performed without full bodily entry into the ((~~hoistway or~~)) pit.

((~~(3) Elevator controls and machinery other than driving machines, hydraulic cylinder, piston, governor, and their components shall be located in a room dedicated exclusively to elevator equipment.~~

~~(4) Drive sheaves, deflector sheaves, machine parts and supports are permitted to project into the hoistway.~~))

Section 11
Outside Hoistway

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02580 Inspection keys ((~~required on-site~~)). ((~~The keys for Group 2 Authorized Personnel (see ASME A17.1/CSA B44 8.1.3) shall be located in a locked key retainer box in the elevator lobby at the designated level above the hall buttons, or located by machine room doors at no more than six feet above the floor, provided access to the key box doesn't require passage through locked doors. If in order to meet this requirement the box would be located in an unsecured location (such as the outside portion of a condo), other arrangements shall be accommodated with the written permission of the department.~~

~~The key retainer box shall be:~~

~~• Readily accessible to authorized personnel;~~

~~• Clearly labeled "ELEVATOR";~~

~~• Securely mounted;~~

~~• Equipped with a 1-inch mortise cylinder cam lock with keyway set to a #39504 Fort type key;~~

~~Further:~~

~~• Keys for access to elevator machine rooms and for operating elevator equipment shall be tagged and kept in the key box.~~

~~• The box shall contain all keys associated with the Group 2 Security and applicable to the elevator(s) (see ASME A17.1/CSA B44, Req. 8.1.3).~~

~~• Mechanical hoistway access devices shall be located in the key box or machine room.~~)) (1) All keys necessary for the operation and

maintenance of the elevator(s) shall be provided and kept on-site in a key retainer box.

(2) The key retainer box shall be:

(a) Located in the elevator lobby at the designated level above the hall buttons or located by the machine room door at a height not more than 72 in. above the floor. Access to the key box shall not require passage through locked doors;

(b) Readily accessible to inspection personnel;

(c) Clearly labeled "ELEVATOR;"

(d) Securely mounted;

(e) Equipped with a 1-inch mortise cylinder cam lock with keyway set to a #39504 barrel type key;

(f) Keys for access to the elevator machine rooms and for operating elevator equipment shall be labeled as to their function and kept in the key box;

(g) Mechanical hoistway access devices shall be located in the key box. Where the key cannot fit into the key box, it may be located in the machine/control room;

(h) Where the box cannot be located as indicated in (a) of this subsection, it shall be permitted to be in an unsecured location (such as the outside portion of a condominium). Other arrangements shall be accommodated with the written permission of the department;

(i) No persons except the building owner and inspectors shall have access to the key box; and

(j) All other keys kept elsewhere on-site shall be segregated into groups and secured as required by ASME A17.1/CSA B44, Section 8.1.

((~~Note:~~)) The cities of Seattle and Spokane may designate their own options for keys and lockbox arrangement via their rule processes.

Exceptions:

Residential elevators are exempt from this section.

((~~**EXCEPTION:** Residential elevators are exempt from this section.~~))

Section 12
Accessibility Equipment

((~~Accessibility Equipment~~))

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02605 Private residence inclined stairway chairlifts. (1) Battery operated private residence inclined stairway chairlifts are not required to be permanently wired or installed on an individual branch circuit as required by ((~~NEC~~)) NFPA 70 620.51 (A) Exception 2. These conveyances shall be permitted to use a cord and plug that will act as the equipment disconnecting means. The circuit, which is used for the equipment, shall have overcurrent protection that will protect the circuit and the equipment. The circuit shall have sufficient capacity to support the additional load of the stairway chairlift. Units that are operated by line voltage shall comply with NEC 620.51 (A) Exception 2.

(2) ((~~A free passage width of not less than seventeen inches shall be provided. If the chair can be folded when not in use the distance can be measured from the folded chair. When in use there must be a minimum of two inches between any body part and the nearest obstruction.~~)) Governor overspeed safety testing shall be verified by manufacturer's documentation (see A18.1 Requirement 9.9.3). Safeties shall be manually tripped at rated speed with no load on the chair (see A18.1 Section 10.4).

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-02640 ((~~Incline~~)) Inclined commercial stairway chair lifts. Governor overspeed safety testing shall be verified by ((~~manufacturer~~)) manufacturer's submitted documentation ((~~and manually tripped at rated speed with no load~~)) at time of permit (see A18.1 Requirement 9.9.3). Safeties shall be manually tripped at rated speed with no load on the chair (see A18.1 Section 10.4).

NEW SECTION

WAC 296-96-02650 Additional required on-site documentation. (1) Wiring diagrams.

(2) A log identifying applicable tests.

(3) Manufacturer's operational instructions that include the operation of the manual lowering device.

(4) Maintenance logs shall include the following tasks:

(a) Stair chair lifts:

(i) Platform lifts:

(A) Operating control devices;

(B) Seat, arm rests, and foot rest;

(C) Rated load and data plate; and

(D) Ride.

(ii) Machine:

(A) Enclosure;

(B) Drive machine brake;

(C) Suspension means;
(D) Disconnecting means;
(E) Numbering of equipment;
(F) Gears and bearings;
(G) Winding drum;
(H) Suspension fastenings;
(I) Slack-rope devices; and
(J) Overspeed governor.
(iii) Runway:
(A) Normal terminal stopping devices;
(B) Final terminal stopping devices;
(C) Head room;
(D) Guiding members;
(E) Construction;
(F) Clearances;
(G) Traveling cables and junction boxes;
(H) Guide rail fastenings and equipment; and
(I) Equipment exposure to weather.
(b) Inclined platform lifts:
(i) Platform:
(A) Stop switch;
(B) Operating control devices;
(C) Floor;
(D) Lighting;
(E) Emergency signal;
(F) Signs and operating device symbols;
(G) Rated load and data plates;
(H) Ride; and
(I) Arms and retractable ramps.
(ii) Machine:
(A) Enclosure;
(B) Guarding of exposed auxiliary equipment;
(C) Drive machine brake;
(D) Gears and bearings;
(E) Winding drum;
(F) Belt or chain drive;
(G) Secondary and deflector sheaves;
(H) Suspension fastenings;
(I) Slack-rope devices;
(J) Safety device;
(K) Overspeed governor;
(L) Disconnecting means;
(M) Numbering of equipment; and
(N) Controller.
(iii) Runway:
(A) Normal terminal stopping devices;
(B) Final terminal stopping devices;
(C) Head room;
(D) Slack rope devices;
(E) Safeties and guiding members;
(F) Construction;
(G) Clearances;
(H) Guide rail fastenings and equipment;
(I) Suspension means; and
(J) Equipment exposure to weather.
(c) Vertical platform lifts:
(i) Platform:

(A) Stop switch;
(B) Operating control devices;
(C) Lighting and auxiliary lighting;
(D) Emergency signaling device;
(E) Gates and retractable ramps;
(F) Enclosure;
(G) Signs and operating device symbols;
(H) Rated load and data plate; and
(I) Ride.
(ii) Machine:
(A) Enclosure;
(B) Drive machine brake;
(C) Gears and bearings;
(D) Winding drum;
(E) Belt or chain drive machine;
(F) Secondary or deflector sheaves;
(G) Suspension fastenings;
(H) Slack rope device;
(I) Overspeed governors;
(J) Hydraulic power unit;
(K) Control valves; and
(L) Hydraulic cylinders and supply piping.
(iii) Runways:
(A) Normal terminal stopping device;
(B) Final terminal stopping device;
(C) Head room;
(D) Slack rope device;
(E) Safeties and guiding members;
(F) Construction;
(G) Clearances;
(H) Traveling cables;
(I) Door and gate equipment;
(J) Suspension fastenings;
(K) Suspension means; and
(L) Equipment exposure to weather.
(iv) Outside runway:
(A) Doors and gates;
(B) Door locking devices; and
(C) Enclosure.

Section 13
Private Residence Elevators

NEW SECTION

WAC 296-96-02700 Machine room requirements. (1) Main line disconnects and car light disconnects shall be located adjacent to the controller when not located in a dedicated machine room. When located

in a dedicated room, commercial machine room requirements shall be followed. Main line disconnects shall comply with WAC 296-96-02460.

(2) Access to the motor brake shall have:

(a) A lockable door that is a minimum of 6" x 6" or 36 sq. in.

(b) A "STOP" switch shall be located within reach of the access door.

(c) A light switch and GFCI receptacle shall be located within reach of the access door.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05000 Scope. The requirements in this part are intended to cover those stand-alone standard application ((~~vertical~~)) material lifts. Where Type-A or Type-B material lifts are installed, they shall comply with ASME A17.1/CSA B44, Part 7.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05020 Hoistway enclosure. Generally, local codes and ordinances govern hoistway enclosure construction. When not in conflict with a local code requirement, the enclosure shall:

(1) Be built to a height of ((~~7 feet~~)) 84 in. above each floor, landing and adjacent stairway tread;

(2) Extend (adjacent to the counterweights) the full height of the floor and 8 ((~~inches~~)) in. beyond the counterweight raceway;

(3) Be constructed of either solid material or material with openings that will reject a ((~~2-inch~~)) 2 in. diameter ball;

(4) Be supported and braced so that it does not deflect more than 1 inch when subjected to a force of 100 lbs. applied perpendicular at any point;

(5) A full height hoistway enclosure is required only on the side(s) of the material lift for which the car is not equipped with a gate or enclosure.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05030 Hoistway gates and doors. Enclosure gates (doors) shall be constructed according to the following standards:

(1) The gate shall guard the full width of each opening on every landing.

(2) It shall be built in one of the following styles:

(a) Vertically sliding;

(b) Biparting;

(c) Counter-balanced;

(d) Horizontally swinging; or

(e) Horizontally sliding.

(3) Be constructed of either solid material or material with openings that will reject a ((~~2-inch~~)) 2 in. diameter ball.

(4) Be constructed with a distance of not more than ((~~2 1/2 inches~~)) 2.5 in. between a hoistway gate or hoistway door face and a landing sill edge.

(5) Be designed and guided to withstand (without being broken, permanently deformed, or displaced from its guides or tracks) a 100 pound lateral pressure applied near its center.

(6) Be equipped with labeled and listed electrical interlock(s) that prevents the operation of the lift when the doors or gates are open.

(7) Be constructed with balanced type vertically sliding gates that extend no more than 2 ((~~inches~~)) in. vertically from the landing threshold and no less than 66 ((~~inches~~)) in. above it.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05070 Car enclosures. (1) Lift cars shall have their sides enclosed with solid panels or openwork that will reject a two-inch diameter ball. On the car sides where there is no gate (door), the enclosure shall extend to a height of at least ((~~forty-eight inches~~)) 48 in. from the floor or to a height necessary to enclose the materials that are being moved, whichever is greater. On the car side next to the counterweight runway, the enclosure shall extend vertically to the car top or underside of the car crosshead and horizontally to at least ((~~six inches~~)) 6 in. on each side of the runway.

(2) Standard application material lifts in unenclosed hoistways shall have a car gate that is constructed of the same material as the car enclosure.

(3) The gate, if required or supplied, shall be the same height as the sidewalls of the car enclosure and shall be provided with a latching device and electrical contact to prevent the operation of the motor and brake if open more than two inches.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05090 Car and counterweight guides. Car and counterweight guide rails shall be fastened so they will not deflect more than ((~~1/8~~)) 0.125 in. They shall also be strong enough to withstand, without deformation, the application of a car safety when the car is carrying its rated load and traveling at its rated speed.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05140 Car safeties. Car safeties shall be used on all material lifts that are suspended by wire ropes or chains. They shall be able to stop and sustain a car carrying ((~~125~~)) 100 percent of its rated load. This shall be demonstrated during the acceptance inspection and test procedure with an overspeed or gravity drop test, minimum two safeties at a time. On lifts driven by rack and pinion machines:

(1) Car safeties shall be able to stop and sustain a car carrying ((~~125~~)) 100 percent of its rated load.

(2) Car safeties will consist of a freely rotating safety pinion, an overspeed governor, and a safety device which may be mounted on the car.

(3) The rotating pinion driving an overspeed governor will travel on a stationary rack, which is vertically mounted in the hoistway.

(4) The governor will actuate the safety device when the downward speed of the car reaches the tripping speed and will bring the car to a gradual stop.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05190 Pits. The following requirements shall apply to lift pits ((~~shall~~)):

(1) Have noncombustible floors;

(2) Be designed to prevent the entry of groundwater into the pit;

(3) Have floors that are substantially level;

(4) ((~~Have~~)) Where provided, drains ((~~that are~~)) shall not be directly connected to sewers;

(5) Provide safe and convenient access to the pit;

(6) ((~~Provide~~)) Have an approved access ladder for pits deeper than ((~~3 feet~~)) 36 in.; and

(7) Have nonperforated metal guards installed on the open sides of the counterweights where spring, solid or oil type buffers are attached. These guards shall:

(a) Extend from a point not more than 12 ((~~inches~~)) in. above the pit floor to a point at least ((~~7 feet~~)) 84 in. but not more than ((~~8 feet~~)) 96 in. above the floor;

(b) Be fastened to a properly reinforced and braced metal frame which will be at least equal in strength and stiffness to No. 14 U.S. gauge sheet steel; and

(c) Be omitted on the pit side where compensating chains or ropes are attached to the counterweight.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-05210 Signage. Each lift shall have the following two signs:

(1) A "CAPACITY" sign permanently fastened in the lift car and on each landing. This sign shall indicate the rated load of the lift in pounds and be made of metal with ((~~2-inch~~)) 2 in. high black letters on a yellow background.

(2) A "NO RIDERS" sign conspicuously and permanently fastened on the landing side of all hoistway gates (doors) and in the enclosure of each car. This sign shall be made of metal with ((~~2-inch~~)) 2 in. high black letters on a red background.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-07150 Guide rails, track supports and fastenings. (1) Guides, guide rails, guide rail brackets, and their fastenings and supports shall, at the point of support, deflect ((~~1/8 inch~~)) 0.125 in. or less while resisting horizontal forces encountered during loading. When horizontal force is measured at a mid-point between brackets, guide rails shall deflect ((~~1/4 inch~~)) 0.25 in. or less in any direction.

(2) Fixed, suspended cable guides may be used as a guide member(s). When used, the deflection is to be specified by the manufacturer and approved by a structural engineer licensed in the state of Washington.

((~~Special Purpose Personnel Elevators~~))
Electric Manlifts

NOTE: New installations shall comply with ASME A17.1/CSA B44, Section 5.7.

Hand Powered Elevators

NOTE: New installations shall comply with ASME A17.1/CSA B44, Section 4.3.

Casket Lifts

NOTE: These conveyances are intended to be used only in mortuaries where moving caskets is necessary. The installation of new lifts for this purpose shall comply with ASME A17.1/CSA B44, Part 7 or chapter 296-96 WAC Part C, Section 1.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-18020 Car and platform enclosures. All boat launching elevator cars or platforms shall be enclosed to a height of at least ((~~6 feet~~)) 72 in. from the floor on all sides where there are no hoistway doors or gates. Enclosures may be built as solid panels or open work which will reject a 2 in. diameter ball.

PART D - REGULATIONS FOR EXISTING ELEVATORS, STANDARD APPLICATION MATERIAL LIFTS, DUMBWAITERS, AND ESCALATORS

NOTE: This part provides the minimum requirements for existing conveyances. Application of Part D rules apply where a conveyance was not provided, or required to be provided, with a device or system when originally installed or altered. Where Part D does not cover a particular device or system, refer to ASME A17.3.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23117 Car top guard railings ((~~for traction elevators~~)). A standard railing shall be installed on the top of all ((~~traction elevators where the perpendicular distance between the edges of the car top and the adjacent hoistway enclosure exceeds 12 in. horizontal clearance. The railing shall be substantially constructed of metal and shall consist of a top rail, intermediate rail and post. The top rail shall have a smooth surface and the upper surface shall be located at a vertical height of 42 in. The intermediate rail shall be located approximately halfway between the top rail and the car top. There shall be a minimum of 6 in. of clearance above the top rail when the car is at its furthest point of travel. If the vertical clearance from the car top to the hoistway enclosure, including gravity-stopping distance, is less than 48 in. away, the top handrail height may be reduced to 42 in. plus or minus 3 in. If the clearances will not allow a 39 in. handrail, do not install the top of car railing, instead provide signage required by WAC 296-96-23119~~)) elevators in compliance with ASME A17.1/CSA B44, 2.14.1.7. Where existing conditions do not permit the railing to be installed according to clearances of 2.14.1.7.2, the following shall apply:

(1) The top railing shall be installed at a height of not less than 1070 mm (42 in.) nor more than 1100 mm (43 in.) from the car top.

(2) Where overhead conditions prevent the top railing from being located between 1070 mm (42 in.) and 1100 mm (43 in.), the railing shall be permitted to be lowered to a height that will still provide the minimum 100 mm (4 in.) vertical clearance to the nearest overhead object. In such cases the top railing shall be provided with red and white stripes 50 mm (2 in.) in width.

(3) The stripes are only required on the side(s) where the top rail is below 900 mm (35 in.).

(4) Where required, the stripes shall extend the entire length of the top rail.

(5) Where overhead conditions prevent the railing from complying with the vertical height and/or the clearances in 2.14.1.7.2(a) or (b), provide signage as required by WAC 296-96-23119(2).

(6) Toeboards are not required.

((~~EXEMPTION:~~)) This requirement does not apply to electric manlifts or residential elevators.

Exception:

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23119 Low overhead signs. (1) Elevators that do not have a minimum of 24 in. clearance from the crosshead, or any equipment mounted on the crosshead, to the lowest member of the overhead structure in the hoistway when the car has reached its maximum upward movement shall be provided with caution signage. A sign shall be located near the top of car inspection station. An additional sign shall be posted on the hoistway wall. This sign shall be visible when accessing the car top. The sign shall consist of alternating 4 in. diagonal red and white stripes and shall clearly state "danger low clearance" in lettering not less than 4 in. in height.

(2) Where required by WAC 296-96-23117(5), a sign shall be provided that reads "Caution: Low Clearances Above Guardrail."

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23126 Guarding of equipment. (1) Where feasible, gears, sprockets, sheaves, cables, tapes, belts and chains shall be fitted with suitable guards to prevent accidental contact.

(2) Openings in machine room floors above the hoistway must be guarded to prevent tools and materials from falling into the hoistway below.

(3) Open grating in machine room floors shall reject a ball ((~~1/2~~)) 0.5 in. in diameter.

(4) Ventilation grids where exposed to the hoistway below shall be firmly fastened to prevent accidental removal and shall be fitted with ((~~1/2~~)) 0.5 in. wire mesh ((~~under~~)) securely attached to the grid.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23130 Pit access. Access ladders shall be installed in elevator pits ((~~3 ft.~~)) 36 in. or deeper. Where constraints prohibit the installation of a pit ladder conforming to ASME A17.1/CSA B44, 2.2.4.2, a retractable ladder shall be permitted to be installed in accordance with 2.2.4.2.7 and 2.2.4.2.8 of ASME A17.1/CSA B44.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23132 Pit illumination and receptacles. (1) Light fixtures shall be installed in all pits.

(a) Installations prior to 7/1/2004 require a permanent lighting fixture producing at least 5 foot-candles as measured in the working areas at the pit floor.

(b) A light switch shall be installed and shall be accessible from the pit access door.

(2) A permanent GFCI 15-20 amp duplex receptacle shall be provided in all pits.

(3) Where more than one elevator shares a common pit, a GFCI 15-20 amp duplex receptacle shall be located in the area below each elevator and above when traction machines are located in top of the hoistway.

Subpart II
((~~[Machinery and Equipment for Electric]] [Existing] Elevators~~))
Machinery and Equipment for Existing Electric Elevators

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23200 Scope. This subpart ((~~II, Machinery and Equipment for Electric Elevators,~~)) is a minimum standard for all existing electric elevators. It applies to other equipment only as referenced in the applicable subpart.

((~~[Section 3]~~
~~[Absence of Safety Bulkheads]~~))
Subpart III
Absence of Safety Bulkheads

Subpart ((~~III~~)) IV
Alterations, Repairs, Maintenance, and Testing

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23605 Examination of standard application material lifts, special purpose ((~~lifts~~)) elevators, electric manlifts, and ((~~hand elevators~~)) hand-powered manlifts. (1) Examination standard application material lifts, special purpose lifts, electric manlifts and hand elevators shall conform to the following:

(a) Annual examination requirements for electrical elevators. Service providers((~~.~~)) shall furnish documentation to include the following components or systems that shall be examined if installed.

(b) Inside car:

(i) ((~~Door reopening device;~~
~~(ii)~~)) Stop switches;

((~~(iii)~~)) (ii) Operating control devices((~~*~~));

((~~(iv)~~)) (iii) Car lighting and auxiliary lighting((~~*~~))*;

((~~(v)~~)) (iv) Car emergency signal;

((~~(vi)~~)) (v) Car door or gate;

((~~(vii) Door closing force;~~
~~(viii)~~)) (vi) Ventilation((~~*~~));

((~~(ix)~~)) (vii) Restricted opening of car or hoistway doors;

((~~(x)~~)) (viii) Car ride((~~*; and~~
~~(xi)~~));

(ix) Stopping accuracy((~~*~~));

(x) Car enclosure;

(xi) Emergency exits;

(xii) Signs and operating device symbols; and

(xiii) Equipment exposure to weather*.

(c) Machine room/control room:

(i) Guarding of equipment;

(ii) Stop switch;

(iii) Disconnecting means and control;

(iv) Controller wiring, fuses, grounding, etc.;

(v) Machinery supports and fastenings;
(vi) Drive machine brakes;
(vii) Traction drive machines;
(viii) Gears, bearings, and flexible connections;
(ix) Winding drum machine;
(x) Absorption of regenerated power;
(xi) Traction sheaves;
(xii) Secondary and deflector sheaves;
(xiii) Rope fastenings;
(xiv) Operating devices;
(xv) Code data plate((~~*~~))*;
(xvi) ((~~AC drives from a DC source;~~
~~(xvii)~~)) Slack rope devices;
((~~(xviii)~~)) (xvii) Wiring diagrams; ((~~and~~
~~(xix)~~)) (xviii) Rope retainers or restraints;
(xix) Equipment exposure to weather*; and
(xx) Fire extinguisher*.
(d) Top-of-car:
(i) Top-of-car stop switch;
(ii) Car top light and outlet;
(iii) Top-of-car operating device and/or working platforms;
(iv) Car, overhead, and deflector sheaves;
(v) Crosshead data plate((~~**~~));
(vi) Traveling cables and junction boxes;
(vii) Door and gate equipment;
(viii) Car frame and stiles;
(ix) Guide rails fastening and equipment;
(x) Governor rope;
(xi) Governor releasing carrier;
(xii) Fastening and hitch plate;
(xiii) Suspension means;
(xiv) Compensation means;
(xv) Working areas on the car top((~~:~~)):
(A) Means to prevent unexpected movement.
(B) Unexpected car movement device.
(C) Operating instructions for unexpected car movement device.
(D) Operating instructions for egress and reentry procedure((~~:~~)).
(xvi) Machinery supports and fastenings;
(xvii) Guarding of exposed auxiliary equipment;
(xviii) Rope retainers and snag guards;
(xix) Position restraints;
(xx) Top emergency exit;
(xxi) Hoistway construction*; and
(xxii) Equipment exposure to weather*.
(e) Outside hoistway:
(i) Car platform guard;
(ii) Hoistway doors;
(iii) ((~~Vision panels*;~~
~~(iv)~~)) Hoistway door locking devices;
((~~(v)~~)) (iv) Access to hoistway;
((~~(vi)~~)) (v) Emergency and access hoistway openings;
((~~(vii)~~)) (vi) Separate counterweight hoistway;
(vii) Elevator parking devices; and
(viii) Equipment exposure to weather*.
(f) Pit:
(i) Pit access, lighting, stop switch and condition;
(ii) Bottom clearance and runby;

(iii) Traveling cables;
(iv) Compensating chains, ropes, and sheaves;
(v) Car frame and platform;
(vi) ((~~Working areas in the pit;~~
~~(A) Means to prevent unexpected movement.~~
~~(B) Unexpected car movement device.~~
~~(C) Operating instructions for unexpected car movement device.~~
~~(D) Operating instructions for egress and reentry procedure;~~
~~(vii)~~)) Machinery supports and fastenings;
((~~(viii)~~)) (vii) Guarding of exposed auxiliary equipment; ((~~and~~
~~(ix) Pit inspection operation~~))
(viii) Equipment exposure to weather*; and
(ix) Buffers.

Note: (*) ((~~May be combined with other items on the log.~~
(~~**~~))) A visual component that must be reported to the owner.

(2) Annual examination requirements for hydraulic elevators. Service providers shall furnish documentation to include the following components or systems that shall be examined if installed.

(a) Inside the car:
(i) ((~~Door reopening device;~~
~~(ii)~~)) Stop switches;
((~~(iii)~~)) (ii) Operating control devices((~~*~~));
((~~(iv)~~)) (iii) Car lighting and auxiliary lighting;
((~~(v)~~)) (iv) Car emergency signal;
((~~(vi)~~)) (v) Car door or gate;
((~~(vii) Door closing force;~~
~~(viii)~~)) (vi) Emergency exit;
((~~(ix)~~)) (vii) Ventilation((~~*~~));
((~~(x)~~)) (viii) Signs and operating device symbols;
((~~(xi)~~)) (ix) Restricted opening of car or hoistway doors;
((~~(xii)~~)) (x) Car ride((~~*; and~~
~~(xiii)~~));
(xi) Stopping accuracy((~~*~~));
(xii) Car enclosure; and
(xiii) Equipment exposure to weather.
(b) Machine room/control room:
(i) Stop switch;
(ii) Disconnecting means and control;
(iii) Controller wiring, fuses, grounding, etc.;
(iv) Hydraulic power unit;
(v) Tanks*((~~*; and~~));
(vi) Wiring diagrams;
(vii) Code data plate*;
(viii) Equipment exposure to weather*; and
(ix) Fire extinguisher*.
(c) Top-of-car:
(i) Top-of-car stop switch;
(ii) Car top light and outlet;
(iii) Top-of-car operating device and working platforms;
(iv) Top emergency exit;
(v) Traveling cables and junction boxes;
(vi) Door and gate equipment;
(vii) Car frame and stiles;
(viii) Guide rails fastening and equipment;
(ix) Governor rope;
(x) Wire rope fastening and hitch plate;
(xi) Suspension rope;

(xii) Slack rope device;
(xiii) Traveling sheave;
(xiv) Crosshead data plate*((~~*; and~~));
(xv) Guarding of equipment; and
(xvi) Equipment exposure to weather*.
(d) Outside hoistway:
(i) Car platform guard;
(ii) Hoistway doors;
(iii) ((~~Vision panels*;~~
~~(iv)~~)) Hoistway door locking devices;
((~~(v)~~)) (iv) Access to hoistway; and
((~~(vi) Emergency doors in blind hoistways;~~)) (v) Equipment exposure to weather*.
(e) Pit:
(i) Pit access, lighting, stop switch, and condition;
(ii) Bottom clearance and runby;
(iii) Plunger and cylinder;
(iv) Traveling cables;
(v) Car frame and platform;
(vi) Supply piping;
(vii) Governor rope tension device;
(viii) Machinery supports and fastenings;
(ix) Guarding of exposed auxiliary equipment; and
(x) Equipment exposure to weather*.

Note: (*) ((~~May be combined with other items on the log.~~
(~~**~~))) A visual component that must be report to the owner.

Subpart ((~~IV~~)) V
Lifts for ((~~Physically Handicapped~~)) Persons with Disabilities

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-23701 ((~~Periodic examinations~~)) Maintenance and tests on commercial accessibility lifts. (1) ((~~A~~)) One- and five-year inspection test tags in accordance with ASME A18.1, Section 10.3, shall be attached and visible. A full-load safety test shall be performed with weights on all commercial accessibility equipment.

(2) The owner shall ensure that the accessibility lifts are routinely examined and maintained in accordance with ASME A18.1, Section ((~~10.2~~)) 11 and with this subpart.

(3) Documentation of tests, examinations and maintenance shall be readily accessible on-site.

Subpart ((~~V~~)) VI
Standard Application Material Lifts

((~~[Subpart VI~~
~~Alterations, Repairs, Maintenance, and Testing]~~))

Subpart ((~~VIII~~)) VII
Inclined Private Residence Elevators

Subpart ((~~IX~~)) VIII
Private Residence Inclined Conveyances for Transporting Only Property

Subpart ((~~X~~)) IX
Material Hoists

Subpart ((~~XI~~)) X
Belt Manlifts

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24401 Applicable requirements. (1) ((~~Belt~~)) Existing belted manlifts shall comply with the ((~~code under which the unit was installed.~~

~~(2) Where a unit was installed when no code was available (pre-1949), the unit shall, as a minimum, comply with the oldest adopted standard (i.e., ASME A90.1-2003).~~

~~(3)~~)) current adopted edition of ASME A90.1 standard and this section.

(2) Appendix I and II records shall be kept in a secure location within the building and be readily accessible to maintenance personnel and inspectors.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24457 Up-limit stop devices. (1) Two separate automatic stop devices shall be provided to cut off the power and apply the brake when a loaded step passes the upper terminal landing. One of these devices shall consist of a switch mechanically operated by the belt or ((~~stop~~)) step roller. The second device shall consist of any of the following:

(a) A roller switch located above but not in line with the first switch;

(b) A photocell and light source (an "electric eye"); or

(c) A switch activated by a lever, bar, rod, or plate.

(i) If a plate is used, it shall be positioned above the head pulley so it barely clears a passing step.

(ii) If a bar is used, the bar shall be of the "breakaway" type.

(2) The stop device shall stop the lift before a loaded step reaches a point 24 in. above the top terminal landing.

(3) Once the lift has stopped, the automatic stop device shall be manually reset. Therefore, this device shall be located on the top landing where the person resetting the device has a clear view of both the "up" and "down" runs of the lift; and it shall be impossible to reset from a step.

(4) ((~~Electric~~)) Stop devices shall ((~~meet the following requirements:~~

~~(a) All electric switches that directly open the main motor circuit shall be multiple type switches;~~

~~(b) Photoelectric devices shall be designed and installed so that failure of the light source, the light sensitive element or any vacuum~~

~~tube used in the circuit will result in shutting off the power to the driving motor;~~

~~(c) In areas where flammable vapors or dust may be present, all electrical installations shall be in accordance with the NEC requirements for those installations; and~~

~~(d) All controller contacts carrying main motor current shall be copper to carbon types unless the circuit is simultaneously broken at two or more points or the contacts are immersed in oil~~)) comply with the requirements found in the current adopted edition of ASME A90.1.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24480 ((~~Five-year test~~)) Additional annual testing requirements. ((~~A five-year test of the belt manlifts shall be conducted, and the test shall be administered under the following conditions:~~)) (1) Qualified people will conduct the test. A qualified person is either:

(a) An elevator mechanic licensed in the appropriate category of the conveyance being tested;

(b) The representative of a firm that manufactured the particular belt manlift who holds a current temporary mechanic's license in this state; or

(c) The representative of a firm that manufactured the particular belt manlift who is working under the direct supervision of an elevator mechanic licensed in the appropriate category of the conveyance being tested.

(2) ((~~The up capacity of the belt manlift shall be tested with 200 lbs. on each horizontal step. During the up-run portion of the test the belt manlift shall not show appreciable slip of the belt when standing or running at rated speed.~~

~~(3) The down capacity of the belt manlift shall be tested with 200 lbs. on each horizontal step. During the down-run portion of the test the belt manlift shall not show appreciable slip of the belt when standing or running at the rated speed. The brake shall stop and hold the belt with test load within a maximum of 24 in. of travel.~~

~~(4) After the five-year test has been performed~~)) A tag indicating the date of the test and name of the company performing the test shall be attached in a visible area of the drive motor machine. The tag shall have all applicable ASME A90.1((~~,~~)) Section 8.1 test descriptions and code references.

Subpart ((~~XII~~ ~~Special Purpose Elevators (Formerly Known as)~~)) XI

Electric Manlifts((~~)~~))

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24500 Scope. (1) These requirements apply to ((~~special purpose personnel elevators~~)) electric manlifts installed prior to January 1, 1999, in facilities in which agricultural products are stored, food products are processed, goods are manufactured, energy is generated, or similar industrial or agricultural processes are performed.

(2) Where a special purpose personnel elevator was installed after January 1, 1999, the conveyance shall comply with the requirements for a special purpose elevator found in the edition of ASME A17.1 or A17.1/B44 Section 5.7 that was in effect at the time.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24516 Maintenance requirements. (1) Examinations, in compliance with WAC 296-96-23605, are to be performed and documented in the maintenance and testing records.

Test tag(s) shall be attached to a wall inside the cab (car enclosure).

(2) Owners of electric manlifts are responsible for ensuring that:

(a) ((~~Elevators~~)) Manlifts and their parts are maintained in a safe condition;

(b) All devices and safeguards required by these regulations are maintained in good working order; and

(c) Maintenance((~~, examinations,~~)) and safety tests ((~~be~~)) are performed and documented to the ((~~applicable~~)) requirements found in ASME A17.1 Section 8.6 as applicable to the sections of WAC 296-96-24519 through 296-96-24560.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24528 Car doors and gates. (1) All ((~~elevators~~)) electric manlifts shall have car doors, except on fully enclosed hoistways equipped with hoistway gates and enclosed from the top of the hoistway opening to the ceiling on the landing side.

((~~(1)~~)) (2) Car doors shall be:

(a) Constructed of solid or perforated material capable of resisting a 75 lb. thrust without deflecting 1/4 in. If perforated material is used, it shall reject a 1 in. diameter ball.

(b) Biparting or otherwise horizontally swung provided the door swings within the elevator car.

((~~(2) Interlocks or a combination consisting of mechanical locks and electric contacts shall be provided on car gates on elevators in unenclosed hoistways unless a safe means of self-evacuation is provided. Such means shall be approved by the department.~~)) (c) All car doors or gates equipped with an electric contact.

(d) An electrical and mechanical interlock provided when a safe means of self-evacuation (a ladder) is not provided.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24537 Suspension means. (1) There shall be at least 2 hoisting ropes. Each rope shall be:

((~~(1)~~)) (a) Made of a good grade of elevator traction wire rope;

((~~(2)~~)) (b) At least 3/8 in. in diameter and possessing a safety factor of 5;

((~~(3)~~)) (c) Fastened by babbitted tapered elevator sockets or other acceptable methods. If cable clamps are used, a minimum of 3 fist grip or equivalent clamps shall be provided. U-shaped clamps shall not be acceptable.

(2) The car platform shall not be more than 6 in. above the top landing when the counterweight buffer is fully compressed. The counterweight shall be a minimum of 150 mm (6 in.) from the deflector sheave when the car buffer is fully compressed.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24543 Car safeties. All cars suspended or operated from overhead machinery shall be equipped with an approved car safety capable of stopping and holding the car while carrying its rated load.

(1) Car safeties shall be mechanically operated and not be affected by any interruptions in the electrical circuit.

(2) Car safeties and governor controlled safeties shall operate automatically and the control circuit shall be interrupted in the event the safeties set.

(3) All ((~~special purpose elevators~~)) electric manlifts shall be equipped with an overspeed governor that shall not exceed 175 ft./min. and shall deenergize the brake control and motor drive circuits simultaneously when the car safety mechanism is activated.

(4) Winding drum type machines shall have a manual-reset slack rope device that interrupts the drive motor and brake circuits.

((~~(5) Separate safety tags shall be used to distinguish the no-load annual safety test and the five-year full load test.~~))

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24553 Drive machines. (1) ((~~Elevator machines~~)) Electric manlifts shall be driven by approved-type units.

(a) On direct drive or approved worm gear driven type, a mechanically actuated, electrically released brake shall be installed on the driving unit.

(b) On V belt driven types, a minimum of 4 belts, 1/2 in. minimum size, shall be used to transmit power from the motor to the drive shaft and a mechanically activated, electrically released brake shall be installed on the final drive shaft.

(c) All winding drum machine type elevators shall be equipped with top and bottom final limit switches.

(2) Wherever practical, ((~~elevator~~)) drive machines shall be installed on the top side of the supporting structure.

(3) All components of the driving mechanism and parts subject to stress involved in suspending the load or related equipment shall be designed to withstand 8 times the total weight to be suspended, including load, counterweight, car and cables.

(4) Gears shall be made of steel or equivalent material. Cast iron gears are prohibited.

(5) A working platform, with railings complying with the applicable requirements adopted according to chapter 49.17 RCW, shall be provided to allow for safely working on equipment.

(6) A light with a switch shall be located near the elevator driving machine or the machinery space.

(7) A means to lockout/tagout the ((~~elevator~~)) manlift equipment shall be provided and located near the driving machine or machine space.

(8) The ((~~elevator~~)) manlift machinery shall be protected from the weather.

(9) All sheaves shall be appropriately guarded per the requirements adopted according to chapter 49.17 RCW.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24560 Additional applicable requirements. (1) Car speeds shall not exceed 125 ft./min.

(2) Alterations shall conform with the applicable requirements in WAC 296-96-24519 through 296-96-24557.

(3) Electric manlift controls and disconnects shall be accessible and labeled.

Subpart ((~~XIII~~
~~Hand Elevators~~
~~(Previously Called~~)) XII

Hand-Powered Manlifts((~~)~~))

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24600 Scope. This section covers ((~~elevators~~)) hand-powered manlifts that have the capacity of 1 person and are installed in a facility prior to January 1, 1999, in which agricultural products are stored, food products are processed, goods are manufactured, energy is generated, or similar industrial or agricultural processes are performed.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24611 Maintenance and test requirements. (1) Maintenance and tests shall comply with the applicable requirements found in ASME A17.1/CSA B44, Section 8.6.

(a) Test tag(s) shall be attached to the inside of the car.

(b) ((~~Hand elevators~~)) Manlifts with wooden rails shall be safety tested with no load annually. There is not a full load testing requirement.

(2) Qualified people shall conduct the test. A qualified person is either:

(a) An elevator mechanic licensed in the appropriate category for the conveyance being tested;

(b) The representative of a firm that manufactured the particular conveyance and who holds a current temporary mechanic's license in this state; or

(c) The representative of a firm that manufactured the particular conveyance who is working under the direct supervision of an elevator mechanic licensed in the appropriate category for the conveyance being tested.

(3) Examinations, in compliance with WAC 296-96-23605, are to be performed and documented in the maintenance and testing records.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24630 Habitable space beneath the car and counterweight. There shall not be habitable space below an elevator hoistway or counterweight shaft unless the floor above the space can withstand ((~~the impact of a freely~~)) an impact 125 percent greater than the impact generated by a free falling car with rated load or counterweight falling from the full height of the hoistway.

AMENDATORY SECTION (Amending WSR 18-18-070, filed 8/31/18, effective 10/1/18)

WAC 296-96-24670 Hoistway requirements. (1) Escape ladders shall be installed and shall extend the full length of the hoistway.

(a) Ladders shall be installed in a manner to provide access to an emergency exit and shall be located in a position so that in an emergency a person can safely transfer from the car platform to the ladder.

Note: Transfer is considered safe when a person can maintain 3 points of contact while making the transfer.

(b) An "IMPAIRED CLEARANCE" sign shall be posted at the bottom of a ladder when the face of the ladder is less than 30 in. from any structure.

(2) The minimum clearance between a car side and the hoistway enclosure is 1 in.

(3) The clearance between a car platform and a landing sill shall be at least 1/2 in. but not more than 1 1/2 in.

(4) Adequate lighting shall be installed and operating in the path of travel.

Note: For the purpose of this section, adequate lighting shall be 5 fc.

Subpart ((~~XIV~~)) XIII
Casket Lifts

Note: As a minimum, all such lifts currently installed shall comply with this section. These conveyances are intended to be used only in mortuaries where moving of caskets is necessary. New casket lifts shall comply with either ASME A17.1/CSA B44 Part 7 or with this chapter, Part C1.

REPEALER

The following sections of the Washington Administrative Code are repealed:

WAC 296-96-02470	Fireman's service for groups of four or more.
WAC 296-96-02471	Emergency personnel lock box.
WAC 296-96-11080	Five-year test.
WAC 296-96-20005	Applicable codes and standards.
WAC 296-96-23118	Car top railings for hydraulic elevators.
WAC 296-96-23303	Hydraulic elevators without safety bulkheads.
WAC 296-96-24416	Landings.
WAC 296-96-24419	Landing guards and cones.
WAC 296-96-24422	Guarding of entrances and exits.
WAC 296-96-24425	Guarding of floor openings.
WAC 296-96-24428	Guarding of floor landings.