

Oregon OSHA Adopted Changes:  
Federal Amendments to Consensus Standards for Personal  
Protective Equipment in General Industry and Maritime Activities,  
and  
Oregon-initiated updates to consensus standards in  
Agriculture and Forest Activities

Oregon OSHA Admin. Order 2-2010  
Filed and effective February 25, 2010

Text removed/repealed is in [~~brackets with line through~~].

Text added/adopted is in **bold and underlined**.

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DIVISION 2, GENERAL OCCUPATIONAL SAFETY & HEALTH RULES

Division 2/A, General

437-002-0005 Adoption by Reference. In addition to, and not in lieu of, any other safety and health codes contained in OAR Chapter 437, the Department adopts by reference the following federal regulations printed as part of the Code of Federal Regulations, 29 CFR 1910, in the Federal Register:

- (1) 29 CFR 1910.1, Purpose and scope; published 6/27/74, Federal Register, vol. 39, no. 125, p. 23503.
- (2) 29 CFR 1910.2, Definitions; published 6/27/74, Federal Register, vol. 39, no. 125, p. 23503.
- (3) 29 CFR 1910.3, Petitions for the issuance, amendment, or repeal of a standard; published 6/27/74, Federal Register, vol. 39, no. 125, p. 23503.
- (4) 29 CFR 1910.4, Amendments to this part; published 6/27/74, Federal Register, vol. 39, no. 125, p. 23503.
- (5) 29 CFR 1910.5, Applicability of standards; published 6/30/93, FR vol. 58, no. 124, p. 35308.
- (6) 29 CFR 1910.6, Incorporation by reference; published ~~[8/11/09, FR vol. 74, no. 153, pp. 40442-40447]~~ **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(7) 29 CFR 1910.7, Definition and requirements for a Nationally Recognized Testing Laboratory; published 5/11/88, FR vol. 53, no. 91, p. 16838.

(8) 29 CFR 1910.9, Compliance duties owed to each employee; published 12/12/08, Federal Register, vol. 73, no. 240, pp. 75568-75589.

These standards are on file at the Oregon Occupational Safety and Health Division, Oregon Department of Consumer and Business Services, and the United States Government Printing Office.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stat. Implemented: ORS 654.001 through 654.295.

Hist: APD Admin. Order 17-1988, f. 11/10/88, ef. 11/10/88.

OR-OSHA Admin. Order 4-1997, f. 4/2/97, ef. 4/2/97.

OR-OSHA Admin. Order 8-1999, f. 8/6/99, ef. 8/6/99.

OR-OSHA Admin. Order 4-2005, f. 12/14/05, ef. 12/14/05.

OR-OSHA Admin. Order 4-2007, f. 8/15/07, ef. 8/15/07.

OR-OSHA Admin. Order 7-2008, f. 5/30/08, ef. 5/30/08.

OR-OSHA Admin. Order 5-2009, f. 5/29/09, ef. 5/29/09.

OR-OSHA Admin. Order 1-2010, f. 2/19/10, ef. 2/19/10.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

1910.6 Incorporation by Reference.

(a)

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(2) Any changes in the standards incorporated by reference in this part and an official historic file of such changes are available for inspection **in the Docket Office** at the national office of the Occupational Safety and Health Administration, U.S. Department of Labor, Washington, DC 20210; **telephone: 202-693-2350 (TTY number: 877-889-5627)**.

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(4) Copies of ~~[the following]~~ standards ~~[that are]~~ **listed in this section and** issued by ~~[the respective]~~ private standards organizations ~~[may be obtained]~~ **are available for purchase** from the issuing organizations~~[-The materials are available for purchase]~~ at the ~~[corresponding]~~ addresses **or through the other contact information listed below for these** ~~[of the]~~ private standards organizations ~~[noted below]~~. In addition, **these standards** ~~[all]~~ are available for inspection at the ~~[Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington DC, and through]~~ **National Archives and Records Administration (NARA). For information on the availability of these standards at NARA, telephone: 202-741-6030, or go to** **[http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_location\\_s.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_location_s.html)**. Also, the standards are available for inspection at any **Regional Office of the Occupational Safety and Health Administration (OSHA)**, or at the OSHA Docket Office, ~~[room N-2625,]~~ U.S. Department of Labor, 200 Constitution Avenue NW, **Room N-2625**, Washington, DC 20210~~[-or any of its regional offices]~~; **telephone: 202-693-2350 (TTY number: 877-889-5627)**.

(e) ~~[The following material is]~~ **Except as noted, copies of the standards listed below in this paragraph are** available for purchase from the American National Standards Institute (ANSI), 25 West 43rd St~~[-]reer~~, ~~[Fourth]~~**4th** Floor, New York, NY 10036~~[-]~~; **telephone: 212-642-4900; fax: 212-398-0023; Web site: <http://www.ansi.org>.**

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(60) ANSI ~~[Z41.1-67 Men's Safety Toe Footwear,]~~ **Z41-1999, American National Standard for Personal Protection – Protective Footwear;** IBR approved for §§~~[1910.94(a)(5)(v); 1910.136(b)(2) and 1910.261(i)(4)]~~ **1910.136(b)(1)(ii).** **Copies of ANSI Z41-1999 are available for purchase only from the National Safety Council, P.O. Box 558, Itasca, IL 60143-0558; telephone: 1-800-621-7619; fax: 708-285-0797; Web site: <http://www.nsc.org>.**

(61) ANSI Z41-**1991, American National Standard for** Personal Protection – Protective Footwear~~[-]~~; IBR approved for §1910.136(b)(1)(~~iii~~). **Copies of ANSI Z41-1991 are available for purchase only from the National Safety Council, P.O. Box 558, Itasca, IL 60143-0558; telephone: 1-800-621-7619; fax: 708-285-0797; Web site: <http://www.nsc.org>.**

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(67) ANSI Z87.1-~~[68]~~**2003, American National Standard** Practice ~~[of]~~**for** Occupational and Educational Eye and Face Protection, IBR approved for §§1910.133(b)(~~2~~);~~](1)(i) and 1910.252(b)(2)(ii)(I)(1)[~~; and 1910.261(a)(3)(xxv), (d)(1)(iii), (f)(5), (g)(10), (g)(15)(v), (g)(18)(iii), and (i)(4)]. **Copies of ANSI Z87.1-2003 are available for purchase only from the American Society of Safety Engineers, 1800 East Oakton Street, Des Plaines, IL 60018-2187; telephone: 847-699-2929; or from the International Safety Equipment Association (ISEA), 1901 North Moore Street, Arlington, VA 22209-1762; telephone: 703-525-1695; fax: 703-528-2148; Web site: <http://www.safetysafetyequipment.org>.**

(68) ANSI Z87.1-**1989 (R-1998), American National Standard** Practice for Occupational and Educational Eye and Face Protection~~[-]~~; IBR approved for §1910.133(b)(1)(~~ii~~). **Copies of ANSI Z89.1-1989 (R-1998) are available for purchase only from the American Society of Safety Engineers, 1800 East Oakton Street, Des Plaines, IL 60018-2187; telephone: 847-699-2929.**

(69) ~~[ANSI Z88.2-69 Practices for Respiratory Protection, IBR approved for §§1910.94(c)(6)(iii)(a); 1910.134(c); and 1910.261(a)(3)(xxvii), (b)(2), (f)(5), (g)(15)(v), (h)(2)(iii) and (iv), and (i)(4).]~~ **ANSI Z87.1-1989, American National Standard Practice for Occupational and Educational Eye and Face Protection; IBR approved for §1910.133(b)(1)(iii).** **Copies of ANSI Z87.1-1989 are available for purchase only from the American Society of Safety Engineers, 1800 East Oakton Street, Des Plaines, IL 60018-2187; telephone: 847-699-2929.**

(70) ~~[ANSI Z89.1-69 Safety Requirements for Industrial Head Protection, IBR approved for §§1910.35(b)(2); and 1910.261(a)(3)(xxvii), (b)(2), (g)(15)(v), and (i)(4).]~~ **ANSI Z88.2-1969, Practices for Respiratory Protection; IBR approved for §§1910.94(c)(6)(a), 1910.134(c); and 1910.261(a)(3)(xxvi), (b)(2), (f)(5), (g)(15)(v), (h)(2)(iii), (h)(2)(iv), and (i)(4).**

(71) [~~ANSI Z89.1-86, Protective Headwear for Industrial Workers Requirements, IBR approved for §1910.135(b)(1).~~] **ANSI Z89.1-2003, American National Standard for Industrial Head Protection; IBR approved for §1910.135(b)(1)(i). Copies of ANSI Z89.1-2003 are available for purchase only from the International Safety Equipment Association, 1901 North Moore Street, Arlington, VA 22209-1762; telephone: 703-525-1695; fax: 703-528-2148; Web site: <http://www.safetyequipment.org>.**

(72) [~~ANSI Z89.2-71 Safety Requirements for Industrial Protective Helmets for Electrical Workers, Class B, IBR approved for §1910.268(i)(1).~~] **ANSI Z89.1-1997, American National Standard for Industrial Head Protection; IBR approved for §1910.135(b)(1)(ii). Copies of ANSI Z89.1-1997 are available for purchase only from the International Safety Equipment Association, 1901 North Moore Street, Arlington, VA 22209-1762; telephone: 703-525-1695; fax: 703-528-2148; Web site: <http://www.safetyequipment.org>.**

**(73) ANSI Z89.1-1986, American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements; IBR approved for §1910.135(b)(1)(iii).**

**(74) ANSI Z41.1-1967 Men’s Safety Toe Footwear; IBR approved for §1910.261(i)(4).**

**(75) ANSI Z87.1-1968 Practice of Occupational and Educational Eye and Face Protection; IBR approved for §1910.261(a)(3)(xxv), (d)(1)(ii), (f)(5), (g)(1), (g)(15)(v), (g)(18)(ii), and (i)(4).**

**(76) ANSI Z89.1-1969 Safety Requirements for Industrial Head Protection; IBR approved for §1910.261(a)(3)(xxvii), (b)(2), (g)(15)(v), and (i)(4).**

**(77) ANSI Z89.2-1971 Safety Requirements for Industrial Protective Helmets for Electrical Workers, Class B; IBR approved for §1910.268.(i)(1).**

(h) [~~The following material is available for purchase from the American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103~~] **Copies of the standards listed below in this paragraph are available for purchase from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959; telephone: 610-832-9585; fax: 610-832-9555; e-mail: [serviceastm.org](mailto:serviceastm.org) ; Web site: <http://www.astm.org> .**

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**(20) ASTM F-2412-2005, Standard Test Methods for Foot Protection; IBR approved for §1910.136(b)(1)(i).**

**(21) ASTM F-2413-2005, Standard Specification for Performance Requirements for Protective Footwear; IBR approved for §1910.136(b)(1)(i).**

## Division 2/G, Occupational Health and Environmental Control

437-002-0080 Adoption by Reference. In addition to, and not in lieu of, any other safety and health codes contained in OAR Chapter 437, the Department adopts by reference the following federal ~~rules as~~ **regulations** printed ~~in~~ **as part of** the Code of Federal Regulations, 29 CFR 1910, ~~[revised as of 7/1/02, and any subsequent amendments published]~~ in the Federal Register ~~[as listed below]~~:

(1) 29 CFR 1910.94 Ventilation, published ~~[6/27/74, Federal Register, vol. 39, p. 23502; amended 5/28/75, FR vol. 40, p. 24522; 6/9/75, FR vol. 40, p. 24522; 10/24/78, FR vol. 43, p. 49746; 2/10/84, FR vol. 49, p. 5322; 8/6/90, FR vol. 55, no. 151, p. 32015; 6/30/93, FR vol. 58, no. 124, p. 35308; 3/7/96, FR vol. 61, no. 46, p. 9236; 1/8/98, FR vol. 63, no. 5, p. 1269; 3/23/99, FR vol. 64, no. 55, p. 13909; amended with AO 3-2003, removed (c), and Oregon note added, f. and ef. 4/21/03; 12/14/07, FR vol. 72, no. 240, p. 71061]~~ **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(2) 29 CFR 1910.95 Occupational Noise Exposure, published ~~[6/27/74, Federal Register, vol. 30, p. 23502; amended 1/16/81, FR vol. 46, p. 4161; 12/29/81, FR vol. 46, p. 62845; 3/8/83, FR vol. 48, p. 9776; 6/28/83, FR vol. 48, p. 29687; 6/7/89, FR vol. 54, p. 24333; 3/7/96, FR vol. 61, no. 46, p. 9236; 4/3/06, FR vol. 71, no. 63, p. 16669;]~~ 12/12/08. FR vol. 73, no. 240, pp. 75568-75589.

NOTE: 29 CFR 1910.96 Ionizing radiation, has been redesignated to 29 CFR 1910.1096.

(3) 29 CFR 1910.97 Nonionizing radiation, published ~~[6/27/74, Federal Register, vol. 39, p. 23502;]~~ 3/7/96, FR vol. 61, no. 46, p. 9236.

(4) 29 CFR 1910.98 Effective dates, published 6/27/74, Federal Register, vol. 39, p. 23502.

(5) 29 CFR 1910.99 Sources of standards, published ~~[6/27/74, Federal Register, vol. 39, p. 23502; amended 5/28/75, FR vol. 40, p. 23073; 6/11/82, FR vol. 47, p. 25323;]~~ 3/7/96, FR vol. 61, no. 46, p. 9236.

(6) 29 CFR 1910.100 Standards organization, published ~~[6/27/74, Federal Register, vol. 39, p. 23502; amended 4/18/75, FR vol. 40, p. 18426; 6/30/93, FR vol. 58, no. 124, p. 35309;]~~ 3/7/96, FR vol. 61, no. 46, p. 9236.

These standards are on file with the Occupational Safety and Health Division, Oregon Department of Consumer and Business Services, and the United States Government Printing Office.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 2-1992, f. 2/6/92, ef. 5/1/92 (all except .95).

OR-OSHA Admin. Order 8-1999, f. 8/6/99, ef. 8/6/99.

OR-OSHA Admin. Order 4-1993, f. 4/1/93, ef. 5/1/93 (Noise).

OR-OSHA Admin. Order 3-2003, f. 4/21/03, ef. 4/21/03.

OR-OSHA Admin. Order 4-1997, f. 4/2/97, ef. 4/2/97.

OR-OSHA Admin. Order 4-2006, f. 7/24/06, ef. 7/24/06.

OR-OSHA Admin. Order 3-1998, f. 7/7/98, ef. 7/7/98.  
OR-OSHA Admin. Order 7-2008, f. 5/30/08, ef. 5/30/08.  
OR-OSHA Admin. Order 5-2009, f. 5/29/09, ef. 5/29/09.  
**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

1910.94 Ventilation

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(v)

(A) [~~Safety shoes shall conform to the requirements of American National Standard for Men's Safety-Toe Footwear, Z41.1-1967, which is incorporated by reference as specified in §1910.6.~~] **Protective footwear must comply with the requirements specified by 29 CFR 1910.136(b)(1).**

## Division 2/I, Personal Protective Equipment

437-002-0120 Adoption by Reference. In addition to, and not in lieu of, any other health and safety codes contained in OAR Chapter 437, the Department adopts by reference the following federal [~~rules as~~] **regulations** printed [~~in~~] **as part of** the Code of Federal Regulations, 29 CFR 1910, [~~revised as of 7/1/03, and any subsequent amendments published~~] in the Federal Register [~~and listed below~~]:

(1) 29 CFR 1910.132 General requirements, published [~~6/27/74, Federal Register, vol. 39, p. 23502; amended 6/30/93, FR vol. 58, no. 124, p. 35306; 4/6/94, FR vol. 59, no. 66, p. 16360; amended with AO 12-2001, Oregon note added, f. and ef. 10/26/01;~~] 11/15/07, FR vol. 72, no. 220, p. 64342.

(2) 29 CFR 1910.133 Eye and face protection, published [~~6/27/74, Federal Register, vol. 39, p. 23502; 4/6/94, FR vol. 59, no. 66, p. 16360; 3/7/96, FR vol. 61, no. 46, p. 9236; 5/2/96, FR vol. 61, p. 19547~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(3) 29 CFR 1910.134 Respiratory protection, published [~~1/8/98, Federal Register, vol. 63, no. 5, p. 1270; 4/23/98, FR vol. 63, no. 78, p. 20098; 8/4/04, FR vol. 69, p. 46986; 8/24/06, FR vol. 71, no. 164, p. 50122;~~] 12/12/08, FR vol. 73, no. 240, pp. 75568-75589.

(4) 29 CFR 1910.135 Occupational head protection, published [~~4/6/94, Federal Register, vol. 59, no. 66, p. 16362; 3/7/96, FR vol. 61, no. 46, p. 9238; 5/2/96, FR vol. 61, p. 19547~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(5) 29 CFR 1910.136 Occupational foot protection, published [~~4/6/94, Federal Register, vol. 59, no. 66, p. 16362; 3/7/96, FR vol. 61, no. 46, p. 9238; 5/2/96, FR vol. 61, p. 19547; 5/9/96; FR vol. 61, p. 21228~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(6) 29 CFR 1910.137 Electrical protective equipment, published [~~6/27/74, Federal Register, vol. 39, p. 23502; amended~~] 1/31/94, FR vol. 59, no. 20, pp. 4435-7.

(7) 29 CFR 1910.138 Hand Protection, published 4/6/94, Federal Register, vol. 59, no. 66, p. 16362.

(8) 29 CFR 1910.139 Respiratory protection for M. tuberculosis, [~~published 6/27/74, Federal Register, vol. 39, p. 23502; amended 10/24/78, FR vol. 43, p. 49748; 2/10/84, FR vol. 49, p. 5322; 4/30/84, FR vol. 49, p. 18295; 6/30/93, FR vol. 58, no. 124, p. 35309; 1/8/98, FR vol. 63, no. 5, p. 1270.~~] Removed, 12/3/03, FR vol. 68, p. 75776-75780 (OR-OSHA Admin. Order 1-2004, f. 3/26/04, ef. 7/1/04).

(9) Appendices.

Appendix A – References for further information (nonmandatory).

Appendix B – Nonmandatory compliance guidelines for hazard assessment and personal protective equipment selection.

These standards are available from the Oregon Occupational Safety and Health Division (OR-OSHA), Department of Consumer and Business Services; and the United States Government Printing Office.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295

Hist: OR-OSHA Admin. Order 9-1993, f. 7/29/93, ef. 9/15/93.

OR-OSHA Admin. Order 3-1994, f. 8/1/94, ef. 8/1/94.

OR-OSHA Admin. Order 5-1994, f. 9/30/94 ef. 9/30/94.

OR-OSHA Admin. Order 3-1997, f. 3/28/97 ef. 3/28/97.

OR-OSHA Admin. Order 4-1997, f. 4/2/97, ef. 4/2/97.

OR-OSHA Admin. Order 3-1998, f. 7/7/98, ef. 7/7/98.

OR-OSHA Admin. Order 12-2001, f. 10/26/01, ef. 10/26/01.

OR-OSHA Admin. Order 1-2004, f. 3/26/04, ef. 7/1/04.

OR-OSHA Admin. Order 5-2004, f. 11/19/04, ef. 11/19/04.

OR-OSHA Admin. Order 10-2006, f. 11/30/06, ef. 11/30/06.

OR-OSHA Admin. Order 5-2008, f. 5/1/08, ef. 5/15/08.

OR-OSHA Admin. Order 5-2009, f. 5/29/09, ef. 5/29/09.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

1910.133 Eye and face protection.

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(b) Criteria for protective eye and face [~~devices~~] **protection**.

(1) Protective eye and face **protection** devices [~~purchased after July 5, 1994 shall~~] **must** comply with [~~ANSI Z87.1-1989, “American National Standard Practice for Occupational and Educational Eye and Face Protection,” which is incorporated by reference, as specified in §1910.6 or shall be demonstrated by the employer to be equally effective.~~] **any of the following consensus standards:**

**(i) ANSI Z87.1-2003, “American National Standard Practice for Occupational and Educational Eye and Face Protection,” which is incorporated by reference in §1910.6;**

**(ii) ANSI Z87.1-1989 (R-1998), “American National Standard Practice for Occupational and Educational Eye and Face Protection,” which is incorporated by reference in §1910.6; or**

**(iii) ANSI Z87.1-1989, “American National Standard Practice for Occupational and Educational Eye and Face Protection,” which is incorporated by reference in §1910.6.**

(2) ~~Protective [E]eye and face protecti[ve]on devices [purchased before July 5, 1994 shall comply with the ANSI “USA standard for Occupational and Educational Eye and Face Protection,” Z87.1-1968, which is incorporated by reference as specified in §1910.6, or shall be demonstrated by the employer to be equally effective]~~ **that the employer demonstrates are at least as effective as protective eye and face protection devices that are constructed in accordance with one of the above consensus standards will be deemed to be in compliance with the requirements of this section.**

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1910.135 Head Protection.

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(b) Criteria for ~~[protective helmets]~~ **head protection.**

(1) ~~[Protective helmets purchased after July 5, 1994 shall comply with ANSI Z89.1-1986, “American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements,” which is incorporated by reference as specified in §1910.6 or shall be demonstrated to be equally effective.]~~ **Head protection must comply with any of the following consensus standards:**

**(i) ANSI Z89.1-2003, “American National Standard for Industrial Head Protection,” which is incorporated by reference in §1910.6;**

**(ii) ANSI Z89.1-1997, “American National Standard for Industrial Head Protection,” which is incorporated by reference in §1910.6; or**

**(iii) ANSI Z89.1-1986, “American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements,” which is incorporated by reference in §1910.6.**

(2) ~~[Protective helmets purchased before July 5, 1994 shall comply with the ANSI standard “American National Standard Safety Requirements for Industrial Head Protection,” ANSI Z89.1-1969, which is incorporated by reference as specified in §1910.6, or shall be demonstrated by the employer to be equally effective.]~~ **Head protection devices that the employer demonstrates are at least as effective as head protection devices that are constructed in accordance with one of the above consensus standards will be deemed to be in compliance with the requirements of this section.**

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§1910.136 Foot Protection.

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(b) Criteria for protective footwear.

(1) Protective footwear [~~purchased after July 5, 1994 shall~~] **must** comply with [~~ANSI Z41-1991, “American National Standard for Personal Protection – Protective Footwear,” which is incorporated by reference as specified in §1910.6, or shall be demonstrated by the employer to be equally effective.~~] **any of the following consensus standards:**

**(i) ASTM F-2412-2005, “Standard Test Methods for Foot Protection,” and ASTM F-2413-2005, “Standard Specification for Performance Requirements for Protective Footwear,” which are incorporated by reference in §1910.6;**

**(ii) ANSI Z41-1999, “American National Standard for Personal Protection – Protective Footwear,” which is incorporated by reference in §1910.6; or**

**(iii) ANSI Z41-1991, “American National Standard for Personal Protection – Protective Footwear,” which is incorporated by reference in §1910.6.**

(2) Protective footwear **that the employer demonstrates is at least as effective as protective footwear that is constructed in accordance with one of the above consensus standards will be deemed to be in compliance with the requirements of this section** [~~purchased before July 5, 1994 shall comply with the ANSI standard “USA Standard for Men’s Safety-Toe Footwear,” Z41.1-1967, which is incorporated by reference, as specified in §1910.6, or shall be demonstrated by the employer to be equally effective].~~

Appendix B to Subdivision I – Nonmandatory Compliance Guidelines for Hazard Assessment and Personal Protective Equipment Selection

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9. Selection guidelines for head protection.

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**Beginning with the ANSI Z89.1-1997 standard, ANSI updated the classification system for protective helmets. Prior revisions used type classifications to distinguish between caps and full brimmed hats. Beginning in 1997, Type I designated helmets designed to reduce the force of impact resulting from a blow only to the top of the head, while Type II designated helmets designed to reduce the force of impact resulting from a blow to the top or sides of the head. Accordingly, if a hazard assessment indicates that lateral impact to the head is foreseeable, employers must select Type II helmets for their employees. To improve comprehension and usefulness, the 1997 revision also redesignated the electrical-protective classifications for helmets as follows: “Class G – General”; helmets designed to reduce the danger of contact with low-voltage conductors; “Class E – Electrical”; helmets designed to reduce the danger of contact with conductors at higher voltage levels; and “Class C – Conductive”; helmets that provide no protection against contact with electrical hazards.**

## Division 2/Q, Welding, Cutting and Brazing

437-002-0280 Adoption by Reference. In addition to, and not in lieu of, any other safety and health codes contained in OAR Chapter 437, the Department adopts by reference the following ~~[F]ederal [rules as]~~ **regulations** printed ~~[in]~~ **as part of** the Code of Federal Regulations, 29 CFR 1910, ~~[revised as of 7/1/97, and any subsequent amendments published]~~ in the Federal Register ~~[as listed below]:~~

(1) 29 CFR 1910.251 Definitions, published ~~[6/27/74, Federal Register, vol. 39, p. 23502; amended 4/12/88, FR vol. 53, p. 12122; amended 4/11/90, FR vol. 55, no. 70, p. 13696; 3/7/96, FR vol. 61, no. 46, p. 9240;]~~ 12/14/07, FR vol. 72, no. 240, p. 71061.

(2) 29 CFR 1910.252 General Requirements, published ~~[6/27/74, Federal Register, vol. 39, p. 23502; amended 5/28/75, FR vol. 40, p. 23073; 10/24/78, FR vol. 43, p. 49750; 2/10/84, FR vol. 49, p. 5323; 9/29/86, FR vol. 51, p. 34562; 4/11/90, FR vol. 55, no. 70, pp. 13696-13701; 3/7/96, FR vol. 61, no. 46, p. 9240; 1/8/98, FR vol. 63, no. 5, p. 1284]~~ **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(3) 29 CFR 1910.253 Oxygen-Fuel Gas Welding and Cutting, published ~~[4/11/90, Federal Register, vol. 55, no. 70, pp. 13701-13709; 3/7/96, FR vol. 61, no. 46, p. 9241;]~~ 12/14/07, FR vol. 72, no. 240, p. 71061.

(4) 29 CFR 1910.254 Arc Welding and Cutting, published ~~[6/27/74, Federal Register, vol. 39, p. 23502; amended 4/28/75, FR vol. 40, p. 18426; 4/11/90, FR vol. 55, no. 70, pp. 13709-13710; 3/7/96, FR vol. 61, no. 46, p. 9241;]~~ 9/13/05, FR vol. 70, no. 176, p. 53925.

(5) 29 CFR 1910.255 Resistance Welding, published 4/11/90, Federal Register, vol. 55, no. 70, pp. 13710-13711.

These rules are on file with the Oregon Occupational Safety and Health Division, Department of Consumer and Business Services, and the United States Government Printing Office.

Stat. Auth.: ORS 654.025(2) and ORS 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 23-1990, f. 9/28/90, ef. 12/1/90.

OR-OSHA Admin. Order 4-1997, f. 4/2/97, ef. 4/2/97.

OR-OSHA Admin. Order 3-1998, f. 7/7/98, ef. 7/7/98.

OR-OSHA Admin. Order 4-2005, f. 12/14/05, ef. 12/14/05.

OR-OSHA Admin. Order 7-2008, f. 5/30/08, ef. 5/30/08.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

1910.252 General requirements.

...

(b) Protection of personnel.

...

(2) Eye protection.

...

(ii) Specifications for protectors.

...

(l) ~~[All f]Filter lenses [and plates shall]~~ **must** meet the test for transmission of radiant energy prescribed ~~[in ANSI Z87.1-1968 – American National Standard Practice for Occupational and Educational Eye and Face Protection, which is incorporated by reference as specified in §1910.6]~~ **by any of the consensus standards listed in 29 CFR 1910.133(b)(1).**

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## DIVISION 4, AGRICULTURE

### Division 4/I, Protective Equipment

437-004-1035 Eye and Face Protection.

(1) General requirements.

(a) Provide and require the use of eye or face protection that protects employees from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases and vapors or potentially harmful light radiation.

(b) If an employee wears prescription lenses while doing work that involves eye hazards, they must wear eye protection that has the prescription. Otherwise, they must wear protection over the prescription lenses without disturbing the proper position of the prescription lenses or the protective lenses.

(c) Employees must use eye protection with side protection when there is a hazard from flying objects. Detachable side protectors (e.g., clip-on or slide-on side shields) are acceptable.

(d) Eye and face protection equipment must be clean and in good repair.

(2) Criteria for protective eye and face devices.

(a) Protective eye and face **protection** devices ~~[purchased after July 5, 1994,]~~ must comply with ~~[ANSI Z87.1-1989, “American National Standard Practice for Occupational and Educational Eye and Face Protection,” which is incorporated by reference. The OR OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem, OR 97310.]~~ **any of the following consensus standards:**

**(A) ANSI Z87.1-2003, “American National Standard Practices for Occupational and Educational Eye and Face Protection;”**

**(B) ANSI Z89.1-1997, “American National Standard for Industrial Head Protection;”**

**(C) ANSI Z89.1-1986, “American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements.”**

**NOTE: The Oregon OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem OR 97309-0405.**

(b) **Protective** [E]eye and face protecti[ve]on devices [purchased before July 5, 1994, must comply with the ANSI “USA standard for Occupational and Educational Eye and Face Protection,” Z87.1-1968. The OR-OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem, OR 97310] **that the employer demonstrates are at least as effective as protective eye and face protection devices that are constructed in accordance with one of the consensus standards will be deemed to be in compliance with the requirements of this section.**

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 4-1998, f. 8/28/98, ef. 10/1/98.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

437-004-1050 Head Protection.

(1) General requirements. Wear protective helmets (hardhat) when working in areas where there is a potential for injury to the head from falling or flying objects.

(2) Criteria for protective headwear.

(a) [~~Protective headwear purchased after July 5, 1994, must comply with ANSI Z89.1-1986, “American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements,” incorporated here by reference. It is available in the OR-OSHA Resource Center at 350 Winter St. NE, Salem OR 97310.~~] **Head protection must comply with any of the following consensus standards:**

**(A) ANSI Z89.1-2003, “American National Standard for Industrial Head Protection;”**

**(B) ANSI Z89.1-1997, “American National Standard for Industrial Head Protection;” or**

**(C) ANSI Z89.1-1986, “American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements.”**

**NOTE: The Oregon OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem OR 97309-0405.**

(b) ~~Protective headwear purchased before July 5, 1994, must comply with the ANSI standard "American National Standard Safety Requirements for Industrial Head Protection," ANSI Z89.1-1969. It is available in the OR-OSHA Resource Center at 350 Winter St. NE, Salem OR 97310.]~~ **Head protection devices that the employer demonstrates are at least as effective as head protection devices that are constructed in accordance with one of the above consensus standards will be deemed to be in compliance with the requirements of this section.**

(c) Employees who work close to moving parts of power-driven machinery or sources of ignition and whose hair is long enough to be caught in it or be ignited, must wear caps or other head covering that completely restrains the hair.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 4-1998, f. 8/28/98, ef. 10/1/98.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

437-004-1060 Hand and Foot Protection.

(1) General requirements. Wear protective footwear when working where there is a danger of foot injuries due to falling or rolling objects, objects piercing the sole or electrical hazards.

(2) Criteria for protective footwear.

(a) ~~Protective footwear [purchased after July 5, 1994,] must comply with [ANSI Z41-1991, "American National Standard for Personal Protection Protective Footwear," incorporated here by reference. It is available in the OR-OSHA Resource Center at 350 Winter St. NE, Salem OR 97310.]~~ **any of the following consensus standards:**

**(A) ASTM F-2412-2005, "Standard Test Methods for Foot Protection," and ASTM F-2413-2005, "Standard Specification for Performance Requirements for Protective Footwear;"**

**(B) ANSI Z41-1999, "American National Standard for Personal Protection – Protective Footwear;"** or

**(C) ANSI Z41-1991, "American National Standard for Personal Protection – Protective Footwear."**

**NOTE: The Oregon OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem OR 97309-0405.**

(b) Protective footwear [~~purchased before July 5, 1994, must comply with the ANSI standard "USA Standard for Men's Safety Toe Footwear," Z41.1-1967, incorporated here by reference. It is available in the OR-OSHA Resource Center at 350 Winter St. NE, Salem OR 97310~~] **that the employer demonstrates is at least as effective as protective footwear that is constructed in accordance with one of the above consensus standards will be deemed to be in compliance with the requirements of this section.**

NOTE: Look for ANSI compliance information on the shoe, the box or tags.

(3) Wear special types or designs of shoes, steel-toed boots, or foot guards where conditions exist that make their use necessary for worker safety.

(4) Wear leggings or high boots of leather, rubber or other suitable material to protect legs from the hazards of hot substances, chemical spills, brush, sharp tools or other hazards.

(a) Do not wear leather or other absorbent materials to protect against chemical hazards.

(5) Do not wear or provide defective footwear or footwear that is ineffective in preventing or limiting injury if conditions may cause foot injuries.

(6) Employers must select and require employees to use appropriate hand protection when the work exposes employees' hands to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; punctures; chemical burns; thermal burns and harmful temperature extremes.

(7) Do not wear gloves near moving parts or machines that might catch them.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 4-1998, f. 8/28/98, ef. 10/1/98.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

## Division 4/Q, Welding

437-004-2310 General Requirements.

(1) Scope. This subdivision applies to agricultural welding, except the following types for which Subdivision 2/Q applies:

Production type or amount of welding.

Welding in confined spaces like tanks, vats, pits, or those defined in Subdivision 4/J, OAR 437-004-1250(1). This section (4/Q) covers some confined space welding topics. In those cases, follow this section in addition to the rules in Subdivision 2/Q.

Welding with toxic or dangerous coatings or fluxes. This includes manganese, lead, zinc, cadmium, mercury, beryllium, or fluorine compounds.

Welding or heating galvanized materials.

(2) Definition.

Welder and welding operator is any operator of electric or gas welding and cutting equipment.

(3) Fire prevention and protection.

(a) Basic precautions. The basic precautions for fire prevention in welding or cutting work are:

(A) Fire hazards. Move either the object you are welding or cutting or any movable fire hazards in the area to a safe place.

(B) Guards. If you can move neither of the above, then use guards to confine the heat, sparks and slag to protect the immovable fire hazards.

(b) Special precautions. When the work falls within the scope of (3)(a)(B) above, additional precautions may be necessary:

(A) Combustible material. Wherever there are floor openings or cracks in the flooring, close them or take precautions so that sparks will not drop through to combustible materials on the floor below. Use the same precautions with cracks or holes in walls, open doorways and open or broken windows.

(B) Fire extinguishers. Keep appropriate fire extinguishing equipment ready for use.

(4) Before beginning. Before beginning, block portable equipment to prevent accidental movement.

(5) Welding or cutting containers.

(a) Clean first. Do not weld, use a torch or do abrasive cutting or other hot work on drums, barrels, tanks or other containers until they have been cleaned so that there are no flammable materials present or any substances that when subjected to heat, might produce flammable or toxic vapors. Disconnect and/or blank any pipe lines or connections to the drum or vessel.

(b) Test often. Use testing equipment prior to and frequently during the welding, torch or abrasive cutting or other hot work to insure that the container is free and remains free of flammable or toxic vapors.

(c) Vent and purge. Vent all hollow spaces, cavities or containers to air or allow gases to escape before preheating, cutting or welding.

(6) Protection of personnel.

(a) General.

(A) Cable. Put welding cable and other equipment so that it is clear of passageways, ladders and stairways.

(b) Eye protection.

(A) Selection.

(i) Use helmets or hand shields when arc welding or arc cutting, excluding submerged arc welding. Helpers or attendants must use proper eye protection.

(ii) Use goggles or other suitable eye protection when gas welding or oxygen cutting. Spectacles without side shields, with suitable filter lenses are acceptable for gas welding on light work, for torch brazing or for inspection.

(iii) All operators and attendants of resistance welding or resistance brazing equipment must use transparent face shields or goggles, depending on the particular job, to protect their faces or eyes.

(iv) Provide suitable goggles for brazing work not covered in (6)(b)(A)(i) through (6)(b)(A)(iii) above.

(B) Specifications for protectors.

(i) Helmets and hand shields must be an insulator for heat and electricity. Helmets, shields and goggles must not be flammable and must withstand sterilization.

(ii) Wear helmets and hand shields to protect the face, neck and ears from direct radiant energy from the arc.

(iii) "Lift front" welders' helmets must have a stationary safety glass on the inside of the frame next to the eyes to protect the welder from flying particles when the front is up. Where lens containers do not permit the use of safety glass, wear safety goggles.

(iv) When not using the "lift front" helmet with three glasses or when using the flat type helmet, wear other spectacle-type safety goggles in addition to the filter lens and cover glass.

(v) Use vented goggles to prevent fogging of the lenses as much as practicable.

(vi) Lenses must be tempered glass, substantially free from scratches, air bubbles, waves and other flaws.

(vii) Lenses must have permanent distinctive markings to show the source and shade.

NOTE: The following is a guide for the selection of the proper shade numbers. These recommendations may vary to meet the individual's needs.

Welding operation	Shade No.
Shielded metal-arc welding – 1/16-, 3/32-, 1/8-, 5/32-inch electrodes	11
Gas-shielded arc welding (nonferrous) – 1/16-, 3/32-, 1/8-, 5/32-inch electrodes	11
Gas-shielded arc welding (ferrous) – 1/16-, 3/32-, 1/8-, 5/32-inch electrodes	12
Shielded metal-arc welding: 3/16-, 7/32-, 1/4-inch electrodes	12
5/16-, 3/8-inch electrodes	14
Atomic hydrogen welding	10-14
Carbon arc welding	14
Soldering	2
Torch brazing	3 or 4
Light cutting, up to 1-inch	3 or 4
Medium cutting, 1-inch to 6 inches	4 or 5
Heavy cutting, 6 inches and over	4 or 5
Gas welding (light) up to 1/8-inch	5 or 6
Gas welding (medium) 1/8-inch to 1/2-inch	5 or 6
Gas welding (heavy) 1/2-inch and over	6 or 8

Note: In gas welding or oxygen cutting where the torch produces a high yellow light, it is desirable to use a filter or lens that absorbs the yellow or sodium line in the visible light of the operation.

(viii) ~~[All-f] Filter lenses [and plates] must meet the test for transmission of radiant energy prescribed [in ANSI Z87.1-1989 – American National Standard Practice for Occupational and Educational Eye and Face Protection.]~~ **by any of the consensus standards listed below:**

**(I) ANSI Z87.1-2003, “American National Standard Practice for Occupational and Educational Eye and Face Protection;”**

**(II) ANSI Z87.1-1989 (R-1998), “American National Standard Practice for Occupational and Educational Eye and Face Protection;” or**

**(III) ANSI Z87.1-1989, “American National Standard Practice for Occupational and Educational Eye and Face Protection.”**

**NOTE: The Oregon OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem OR 97309-0405.**

(c) Protective clothing. Protect employees exposed to the hazards created by welding, cutting or brazing with personal protective equipment according to 4/I, OAR 437-004-1005.

(A) Material. Do not wear clothing that is easily ignited or highly flammable, like that made from synthetic materials.

(d) Work in confined spaces.

(A) General. Where a welder must enter a confined space, follow the rules for confined space work elsewhere in this Subdivision, 4/Q, and in 4/J, 437-004-1250.

(B) Ventilation. Ventilation is a prerequisite to work in confined spaces. For ventilation requirements see OAR 437-004-2310(7).

(C) Securing cylinders and machinery. When welding or cutting is done in any confined space, the gas cylinders and welding machines must be left on the outside. Before starting, block heavy portable equipment wheels to prevent accidental movement.

(D) Electrode removal. When you stop arc welding for a period of time, like lunch or overnight, remove all electrodes from the holders and turn the machine off.

(E) Gas cylinder shutoff. When you stop gas welding or cutting for a period of time, like lunch or overnight, close the torch valves and shut off the gas supply to the torch at a point outside the confined area.

(7) Health protection and ventilation.

(a) General. Use general ventilation or a local exhaust system to keep the amount of toxic fumes, gases, or dusts below the limits in 4/Z, 437-004-9000.

(b) Ventilation for general welding and cutting.

(A) General. Use mechanical ventilation when welding or cutting on metals not covered in (7)(e) through (7)(h) below. (For specific materials, see the ventilation requirements of (7)(e) through (7)(h) below.)

(i) In a space of less than 10,000 cubic feet (284 m<sup>3</sup>) per welder.

(ii) In a room having a ceiling height of less than 16 feet (5 m).

(iii) In confined spaces or where the welding space contains partitions, balconies or other structural barriers to the extent that they significantly obstruct cross ventilation.

(c) Local exhaust hoods and booths. Mechanical local exhaust ventilation may be by means of either of the following:

(A) Hoods. Place movable hoods as close as practical to the work and with enough airflow for a velocity in the direction of the hood of 100 linear feet (30 m) per minute in the welding zone. The rates of ventilation to get this control velocity using a 3-inch (7.6 cm) wide flanged suction opening are in the following table:

Welding zone	Minimum air flow <sup>1</sup> cubic feet/minute	Duct diameter, inches <sup>2</sup>
4 to 6 inches from arc or torch	150	3
6 to 8 inches from arc or torch	275	3 1/2
8 to 10 inches from arc or torch	425	4 1/2
10 to 12 inches from arc or torch	600	5 1/2

<sup>1</sup> When brazing with cadmium bearing materials or when cutting on such materials you may need increased rates of ventilation.

<sup>2</sup> Nearest half-inch duct diameter based on 4,000 feet per minute velocity in pipe.

(d) Ventilation in confined spaces.

(A) Air replacement. Ventilate all welding and cutting in confined spaces to prevent the build-up of toxic materials or possible oxygen deficiency. This applies not only to the welder but also to helpers and other people in the area. Air replacing the withdrawn air must be clean and respirable.

(B) Airline respirators. Where it is impossible to provide such ventilation, use airline respirators or hose masks approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health.

(C) Self-contained units. In areas immediately dangerous to life or health (IDLH), use self-contained breathing equipment. Use breathing equipment approved by the National Institute for Occupational Safety and Health.

(D) Outside helper. When welding in confined spaces and where welders and helpers use hose masks, hose masks with blowers or self-contained breathing equipment approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health, a worker must be on the outside of the confined space to insure the safety of those working within.

(E) Oxygen for ventilation. Never use oxygen for ventilation.

(e) Cleaning compounds.

(A) Manufacturer's instructions. In the use of cleaning materials, because of their possible toxicity or flammability, follow appropriate precautions such as manufacturer's instructions.

(B) Degreasing. Degreasing and other cleaning involving chlorinated hydrocarbons must be where no vapors will reach or be drawn into the atmosphere surrounding any welding operation. In addition, keep trichloroethylene and perchlorethalene out of atmospheres penetrated by the ultraviolet radiation of gas-shielded welding operations.

(f) Preservative coatings.

(A) Test first. Before welding, cutting or heating on any surface covered by a preservative coating whose flammability is unknown, a competent person must test to determine its flammability.

(B) Strip if needed. Prevent ignition of highly flammable hardened preservative coatings. When coatings are known to be highly flammable, strip them from the area to be heated to prevent ignition.

(g) Toxic preservative coatings.

(A) Enclosed spaces. In enclosed spaces, strip all surfaces covered with toxic preservatives of all toxic coatings for a distance of at least 4 inches from the area of heat application or the employees must use a respirator that protects them from toxic vapors.

(B) Strip if needed. Remove the preservative coatings a sufficient distance from the area to be heated to ensure that the temperature of the unstripped metal will not increase appreciably. Artificial cooling of the metal surrounding the heated area is acceptable to limit the size of the area you must clean.

(h) Cutting of stainless steels. Oxygen cutting, using either a chemical flux or iron powder or gas-shielded arc cutting of stainless steel, must include mechanical ventilation adequate to remove the fumes.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 4-1998, f. 8/28/98, ef. 10/1/98.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

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\*\*\* Note: Please refer to the [September 9, 2009 Federal Register](#) for the text of the amended references. Federal OSHA has jurisdiction over most maritime activity. Oregon OSHA does not publish the standards for Maritime Activities. \*\*\*

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## DIVISION 5, MARITIME ACTIVITIES

### PART 1915 – OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR SHIPYARD EMPLOYMENT

437-005-0001

Adoption by Reference.

In addition to, and not in lieu of, any other safety and health codes contained in OAR Chapter 437, the Department adopts by reference the following federal ~~rules as~~ **regulations** printed ~~in~~ **as part of** the Code of Federal Regulations, 29 CFR 1915, ~~[revised as of 7/1/03, and any subsequent amendments published]~~ in the Federal Register ~~[as listed below]:~~

(1) Subdivision A

(a) 29 CFR 1915.1. Purpose and authority, published 4/20/82, Federal Register (FR) vol. 47, p. 16984.

(b) 29 CFR 1915.2. Scope and application, published 4/20/82, FR vol. 47, p. 16984.

(c) 29 CFR 1915.3. Responsibility, published 4/20/82, FR vol. 47, p. 16984.

(d) 29 CFR 1915.4. Definitions, published ~~[4/20/82, FR vol. 47, p. 16984; amended]~~ 7/3/02, FR vol. 67, no. 128, p. 44541.

(e) 29 CFR 1915.5. Incorporation by reference, published ~~[5/24/96, FR vol. 61, no. 102, p. 26359; amended 7/3/02, FR vol. 67, no. 128, p. 44541; 9/15/04, FR vol. 69, p. 55667; 10/17/06, FR vol. 71, no. 200, p. 60843]~~ **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(f) 29 CFR 1915.6. Commercial diving operations, published 4/20/82, FR vol. 47, p. 16984.

(g) 29 CFR 1915.7. Competent person, published ~~[4/20/82, FR vol. 47, p. 16984; amended 6/7/89, FR vol. 54, p. 24334;]~~ 7/25/94, FR vol. 59, p. 37856.

(h) 29 CFR 1915.9. Compliance duties owed to each employee, published 12/12/08, FR vol. 73, no. 240, pp. 75568-75589.

(2) Subdivision B

(a) 29 CFR 1915.11. Scope, application and definitions applicable to this Subpart, published ~~[4/20/82, FR vol. 47, p. 16984; amended]~~ 7/25/94, FR vol. 59, p. 37857.

(b) 29 CFR 1915.12. Precautions before entering confined and enclosed spaces and other dangerous atmospheres, published ~~[4/20/82, FR vol. 47, p. 16984; amended 7/1/93, FR vol. 58, no. 125, p. 35514; amended 7/25/94, FR vol. 59, p. 37858;]~~ 3/16/95, FR vol. 60, no. 51, p. 14218.

(c) 29 CFR 1915.13. Cleaning and other cold work, published ~~[4/20/82, FR vol. 47, p. 16984; amended]~~ 7/25/94, FR vol. 59, p. 37859.

(d) 29 CFR 1915.14. Hot work, published ~~[4/20/82, FR vol. 47, p. 16984; amended 7/25/94, FR vol. 59, p. 37860; 3/16/95, FR vol. 60, no. 51, p. 14218; amended]~~ 7/3/02, FR vol. 67, no. 128, p. 44541.

- (e) 29 CFR 1915.15. Maintenance of safe conditions, published [~~4/20/82, FR vol. 47, p. 16984; amended 7/25/94, FR vol. 59, p. 37860; 3/16/95, FR vol. 60, no. 51, p. 14218; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (f) 29 CFR 1915.16. Warning signs and labels, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/25/94, FR vol. 59, p. 37861.  
Appendix A to Subpart B published [~~7/25/94, FR vol. 59, p. 37816; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.  
Appendix B to Subpart B published 7/25/94, FR vol. 59, p. 37816.
- (3) Subdivision C
- (a) 29 CFR 1915.31. Scope & application of subdivision, published 4/20/82, FR vol. 47, p. 16984.
- (b) 29 CFR 1915.32. Toxic cleaning solvents, published [~~4/20/82, FR vol. 47, p. 16984;~~] 5/24/96, FR vol. 61, no. 102, p. 26351.
- (c) 29 CFR 1915.33. Chemical paint & preservative remover, published [~~4/20/82, FR vol. 47, p. 16984;~~] 5/24/96, FR vol. 61, no. 102, p. 26351.
- (d) 29 CFR 1915.34. Mechanical paint removers, published [~~4/20/82, FR vol. 47, p. 16984;~~] 5/24/96, FR vol. 61, no. 102, p. 26351.
- (e) 29 CFR 1915.35. Painting, published [~~4/20/82, FR vol. 47, p. 16984; 5/24/96, FR vol. 61, no. 102, p. 26351; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (f) 29 CFR 1915.36. Flammable liquids, published 4/20/82, FR vol. 47, p. 16984.
- (4) Subdivision D
- (a) 29 CFR 1915.51. Ventilation & protection in welding, cutting and heating, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (b) 29 CFR 1915.52. Fire prevention, [~~published 4/20/82, FR vol. 47, p. 16984;~~] REMOVED 9/15/04, FR vol. 69, p. 55667.
- (c) 29 CFR 1915.53. Welding, cutting and heating of hollow metal containers & structure not covered by 1915.12, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (d) 29 CFR 1915.55. Gas welding & cutting, published 4/20/82, FR vol. 47, p. 16984.
- (e) 29 CFR 1915.56. Arc welding and cutting, published 4/20/82, FR vol. 47, p. 16984.
- (f) 29 CFR 1915.57. Uses of fissionable material in ship repairing and shipbuilding, published 4/20/82, FR vol. 47, p. 16984.
- (5) Subdivision E
- (a) 29 CFR 1915.71. Scaffolds or staging, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (b) 29 CFR 1915.72. Ladders, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (c) 29 CFR 1915.73. Guarding of deck openings and edges, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (d) 29 CFR 1915.74. Access to vessels, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (e) 29 CFR 1915.75. Access to and guarding of dry docks and marine railways, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.
- (f) 29 CFR 1915.76. Access to cargo spaces and confined spaces, published 4/20/82, FR vol. 47, p. 16984.
- (g) 29 CFR 1915.77. Working surfaces, published [~~4/20/82, FR vol. 47, p. 16984;~~] amended 7/3/02, FR vol. 67, no. 128, p. 44541.
- (6) Subdivision F
- (a) 29 CFR 1915.91. Housekeeping, published 4/20/82, FR vol. 47, p. 16984.
- (b) 29 CFR 1915.92. Illumination, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

- (c) 29 CFR 1915.93. Utilities, published 4/20/82, FR vol. 47, p. 16984.
- (d) 29 CFR 1915.94. Work in confined or isolated spaces, published 4/20/82, FR vol. 47, p. 16984.
- (e) 29 CFR 1915.95. Ship repairing and shipbuilding work on or in the vicinity of radar and radio, published [~~4/20/82, FR vol. 47, p. 16984; amended 4/30/84, FR vol. 49, p. 18295;~~] 6/7/89, FR vol. 54, p. 24334.
- (f) 29 CFR 1915.96. Work in or on lifeboats, published [~~4/20/82, FR vol. 47, p. 16984; amended] 8/24/87, FR vol. 52, p. 31886.~~
- (g) 29 CFR 1915.97. Health and sanitation, published [~~4/20/82, FR vol. 47, p. 16984; amended 8/24/87, FR vol. 52, p. 31886; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (h) 29 CFR 1915.98. First aid, published 4/20/82, FR vol. 47 p. 16984.  
(NOTE: 29 CFR 1915.99, Hazard Communication, was redesignated as 1915.1200 on 7/1/93, FR vol. 58, no. 125, p. 35514.)
- (i) 29 CFR 1915.100. Retention of DOT markings, placards and labels, published 7/19/94, Federal Register, vol. 59, no. 137, p. 36700.
- (7) Subdivision G
- (a) 29 CFR 1915.111. Inspection, published 4/20/82, FR vol. 47, p. 16984.
- (b) 29 CFR 1915.112. Ropes, chains and slings, published [~~4/20/82, FR vol. 47, p. 16984; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (c) 29 CFR 1915.113. Shackles and hooks, published [~~4/20/82, FR vol. 47, p. 16984; amended] 9/29/86, FR vol. 51, p. 34562.~~
- (d) 29 CFR 1915.114. Chain falls and pull-lifts, published 4/20/82, FR vol. 47, p. 16984.
- (e) 29 CFR 1915.115. Hoisting and hauling equipment, published [~~4/20/82, FR vol. 47, p. 16984; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (f) 29 CFR 1915.116. Use of gear, published [~~4/20/82, FR vol. 47, p. 16984; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (g) 29 CFR 1915.117. Qualifications of operators, published 4/20/82, FR vol. 47, p. 16984.
- (h) 29 CFR 1915.118. Tables, published [~~4/20/82, FR vol. 47, p. 16984; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (8) Subdivision H
- (a) 29 CFR 1915.131. General precautions, published [~~4/20/82, FR vol. 47, p. 16984; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (b) 29 CFR 1915.132. Portable electric tools, published 4/20/82, FR vol. 47, p. 16984.
- (c) 29 CFR 1915.133. Hand tools, published 4/20/82, FR vol. 47, p. 16984.
- (d) 29 CFR 1915.134. Abrasive wheels, published [~~4/20/82, FR vol. 47, p. 16984; 5/24/96, FR vol. 61, no. 102, p. 26351; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~
- (e) 29 CFR 1915.135. Powder actuated fastening tools, published [~~4/20/82, FR vol. 47, p. 16984;] 5/24/96, FR vol. 61, no. 102, p. 26351.~~
- (f) 29 CFR 1915.136. Internal combustion engines other than ship's equipment, published 4/20/82, FR vol. 47, p. 16984.
- (9) Subdivision I
- (a) 29 CFR 1915.151. Scope, application and definitions, published 5/24/96, FR vol. 61, no. 102, p. 26352.
- (b) 29 CFR 1915.152. General requirements, published [~~5/24/96, FR vol. 61, no. 102, p. 26352; 6/13/96, FR vol. 61, p. 29957; amended 7/3/02, FR vol. 67, no. 128, p. 44541;~~] 11/15/07, FR vol. 72, no. 220, p. 64342.
- (c) 29 CFR 1915.153. Eye and face protection, published [~~5/24/96, FR vol. 61, no. 102, p. 26353] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**~~
- (d) 29 CFR 1915.154. Respiratory protection, published 5/24/96, FR vol. 61, no. 102, p. 26354.
- (e) 29 CFR 1915.155. Head protection, published [~~5/24/96, FR vol. 61, no. 102, p. 26354] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**~~

(f) 29 CFR 1915.156. Foot protection, published [~~5/24/96, FR vol. 61, no. 102, p. 26354~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(g) 29 CFR 1915.157. Hand and body protection, published 5/24/96, FR vol. 61, no. 102, p. 26354.

(h) 29 CFR 1915.158. Lifesaving equipment, published [~~5/24/96, FR vol. 61, no. 102, p. 26354; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(i) 29 CFR 1915.159. Personal fall arrest systems (PFAS), published [~~5/24/96, FR vol. 61, no. 102, p. 26355; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(j) 29 CFR 1915.160. Positioning device systems, published [~~5/24/96, FR vol. 61, no. 102, p. 26356; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

Appendix A to Subpart I, published [~~5/24/96, FR vol. 61, no. 102, p. 26356; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

Appendix B to Subpart I, published [~~5/24/96, FR vol. 61, no. 102, p. 26358; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(10) Subdivision J

(a) 29 CFR 1915.161. Scope and application of subdivision, published 4/20/ 82, FR vol. 47, p. 16984.

(b) 29 CFR 1915.162. Ship's boilers, published 4/ 20/82, FR vol. 47, p. 16984.

(c) 29 CFR 1915.163. Ship's piping systems, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(d) 29 CFR 1915.164. Ship's propulsion machinery, published 4/20/82, FR vol. 47, p. 16984.

(e) 29 CFR 1915.165. Ship's decking machinery, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(11) Subdivision K

(a) 29 CFR 1915.171. Scope and application of subdivision, published 4/20/ 82, FR vol. 47, p. 16984.

(b) 29 CFR 1915.172. Portable air receiver and other unfired pressure vessels, published [~~4/20/82, FR vol. 47, p. 16984; amended 9/29/86, FR vol. 51, p. 34562; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(c) 29 CFR 1915.173. Drums and containers, published 4/20/82, FR vol. 47, p. 16984.

(12) Subdivision L

(a) 29 CFR 1915.181. Electrical circuits and distribution boards, published [~~4/20/82, FR vol. 47, p. 16984; amended~~] 7/3/02, FR vol. 67, no. 128, p. 44541.

(13) Subdivisions M-O (Reserved)

(14) Subdivision P

(a) 29 CFR 1915.501. General provisions, published 9/15/04, FR vol. 69, p. 55667.

(b) 29 CFR 1915.502. Fire safety plan, published 9/15/04, FR vol. 69, p. 55667.

(c) 29 CFR 1915.503. Precautions for hot work, published 9/15/04, FR vol. 69, p. 55667.

(d) 29 CFR 1915.504. Fire watches, published 9/15/04, FR vol. 69, p. 55667.

(e) 29 CFR 1915.505. Fire response, published [~~9/15/04, FR vol. 69, p. 55667;~~] 10/17/06, FR vol. 71, no. 200, p. 60843.

(f) 29 CFR 1915.506. Hazards of fixed extinguishing systems on board vessels and vessel sections, published 9/15/04, FR vol. 69, p. 55667.

(g) 29 CFR 1915.507. Land-side fire protection systems, published [~~9/15/04, FR vol. 69, p. 55667;~~] 10/17/06, FR vol. 71, no. 200, p. 60843.

(h) 29 CFR 1915.508. Training, published 9/15/04, FR vol. 69, p. 55667.

(i) 29 CFR 1915.509. Definitions applicable to this subpart, published 9/15/04, FR vol. 69, p. 55667.

Appendix A to Subpart P, published 9/15/04, FR vol. 69, p. 55667.

(15) Subdivision Q-Y (Reserved)

(16) Subdivision Z

(a) 29 CFR 1915.1000, Air Contaminants, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 11/4/96, FR vol. 61, p. 56856; 1/10/97, FR vol. 62, p. 1619; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~

(b) 29 CFR 1915.1001, Asbestos, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 8/10/94, FR vol. 59, no. 153, p. 41080; 6/29/95, FR vol. 60, no. 125, pp. 33974-34002; 7/13/95, FR vol. 60, p. 36043; 9/29/95, FR vol. 60, p. 50411; 8/23/96, FR vol. 61, p. 43454; 6/29/98, FR vol. 63, no. 124, p. 35137; amended 7/3/02, FR vol. 67, no. 128, p. 44541; 1/5/05, FR vol. 69, p. 1111; 4/3/06, FR vol. 71, no. 63, p. 16669; 8/24/06, FR vol. 71, no. 164, p. 50122;] 12/12/08, FR vol. 73, no. 240, pp. 75568-75589.~~

Appendix A to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended] 6/29/95, FR vol. 60, p. 33972.~~

Appendix B to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended] 6/29/95, FR vol. 60, p. 33972.~~

Appendix C to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended] 7/3/02, FR vol. 67, no. 128, p. 44541.~~

Appendix D to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended] 8/10/94, FR vol. 59, p. 40964.~~

Appendix E to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended] 6/29/95, FR vol. 60, p. 33972.~~

Appendix F to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended] 6/29/95, FR vol. 60, p. 33972.~~

Appendix G to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended] 8/10/94, FR vol. 59, p. 40964.~~

Appendix H to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended] 6/29/95, FR vol. 60, p. 33972.~~

Appendix I to 1915.1001, published [~~7/1/93, FR vol. 58, p. 35553; amended] 8/10/94, FR vol. 59, p. 40964.~~

Appendix J to 1915.1001, published 8/10/94, FR vol. 59, p. 40964.

Appendix K to 1915.1001, published [~~8/10/94, FR vol. 59, p. 40964; amended] 6/29/95, FR vol. 60, p. 33972.~~

Appendix L to 1915.1001, published [~~7/1/93, vol. 58, p. 35553; amended 8/10/94, FR vol. 59, p. 40964; amended 2/21/95, FR vol. 60, p. 9624; amended 6/28/95, FR vol. 60, p. 33343; amended 6/29/95, FR vol. 60, p. 33972; amended 7/13/95, FR vol. 60, p. 36043; amended 9/29/95, FR vol. 60, p. 50411; amended 2/13/96, FR vol. 61, p. 5507; amended] 8/23/96, FR vol. 61, p. 43454.~~

(c) 29 CFR 1915.1002. Coal tar pitch volatiles; interpretation of term, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;] 6/20/96, FR vol. 61, p. 31427.~~

(d) 29 CFR 1915.1003. 13 Carcinogens (4-Nitrobiphenyl, etc.), published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;] 6/20/96, FR vol. 61, p. 31427.~~

(e) 29 CFR 1915.1004. alpha-Naphthylamine, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;] 6/20/96, FR vol. 61, p. 31427.~~

(f) 29 CFR 1915.1005. (Reserved)

(g) 29 CFR 1915.1006. Methyl chloromethyl ether, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;] 6/20/96, FR vol. 61, p. 31427.~~

(h) 29 CFR 1915.1007. 3,3'Dichlorobenzidene (and its salts), published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;] 6/20/96, FR vol. 61, p. 31427.~~

(i) 29 CFR 1915.1008. bis-Chloromethyl ether, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;] 6/20/96, FR vol. 61, p. 31427.~~

(j) 29 CFR 1915.1009. beta-Naphthylamine, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;] 6/20/96, FR vol. 61, p. 31427.~~

- (k) 29 CFR 1915.1010. Benzidine, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (l) 29 CFR 1915.1011. 4-Aminodiphenyl, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (m) 29 CFR 1915.1012. Ethyleneimine, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (n) 29 CFR 1915.1013. beta-Propiolactone, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (o) 29 CFR 1915.1014. 2-Acetylaminofluorene, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (p) 29 CFR 1915.1015. 4-Dimethylaminoazobenzene, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (q) 29 CFR 1915.1016. N-Nitrosodimethylamine, published [~~7/1/93, FR vol. 58, no. 125, p. 35514; 3/7/96, FR vol. 61, no. 46, p. 9245;~~] 6/20/96, FR vol. 61, p. 31427.
- (r) 29 CFR 1915.1017. Vinyl chloride, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (s) 29 CFR 1915.1018. Inorganic arsenic, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (t) 29 CFR 1915.1020 Access to employee exposure and medical records, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (u) 29 CFR 1915.1025. Lead, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (v) 29 CFR 1915.1026 Chromium (VI), published [~~2/28/06, Federal Register, vol. 71, no. 39, p. 10100; 6/23/06, FR vol. 71, no. 121, p. 36008;~~] 12/12/08, FR vol. 73, no. 240, pp. 75568-75589.
- (w) 29 CFR 1915.1027. Cadmium, published [~~9/14/92, FR vol. 57, no. 178, pp. 42388-42452; amended 4/23/93, FR vol. 58, no. 177, p. 21778; 1/3/94, FR vol. 59, no. 1, pp. 146-215;~~] 6/20/96, FR vol. 61, p. 31427.
- (x) 29 CFR 1915.1028. Benzene, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (y) 29 CFR 1915.1030. Bloodborne pathogens, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (z) 29 CFR 1915.1044. 1,2 dibromo-3-chloropropane, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (aa) 29 CFR 1915.1045. Acrylonitrile, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (bb) 29 CFR 1915.1047. Ethylene oxide, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (cc) 29 CFR 1915.1048. Formaldehyde, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (dd) 29 CFR 1915.1050. Methylenedianiline, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;~~] 6/20/96, FR vol. 61, p. 31427.
- (ee) 29 CFR 1915.1052 Methylene Chloride, published 1/10/97, Federal Register, vol. 62, no. 7, p. 1619.
- (ff) 29 CFR 1915.1120 Access to employee exposure and medical records has been redesignated to §1915.1020.
- (Note: 29 CFR 1915.99, Hazard Communication was redesignated as 1915.1200 on 7/1/93, FR vol. 58, no. 125, p. 35514.)
- (gg) 29 CFR 1915.1200. Hazard communication, published [~~9/24/87, FR vol. 52, p. 31886; amended 4/27/88, FR vol. 53, p. 15035; 2/15/89, FR vol. 54, p. 6888; 6/7/89, FR vol. 54, p. 24334; 7/1/93, FR vol. 58, no. 125, p. 35514; 2/9/94, FR vol. 59, no. 27, pp. 6126-6184; 4/13/~~

~~94, FR vol. 59, no. 71, pp. 17478-17479; 12/22/94, FR vol. 59, no. 245, p. 65947;] 6/20/96, FR vol. 61, p. 31427.~~

(hh) 29 CFR 1915.1450. Occupational exposure to hazardous chemicals in laboratories, published [~~7/1/93, FR vol. 58, no. 125, p. 35514;] 6/20/96, FR vol. 61, p. 31427.~~

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 to 654.295.

Hist: OR-OSHA Admin. Order 9-1992, f. 9/24/92, ef. 11/1/92.

OR-OSHA Admin. Order 1-1993, f. 1/22/93, ef. 1/22/93.

OR-OSHA Admin. Order 19-1993, f. 12/29/93, ef. 12/29/93.

OR-OSHA Admin. Order 4-1994, f. 8/4/94, ef. 8/4/94.

OR-OSHA Admin. Order 1-1995, f. 1/19/95, ef. 1/19/95.

OR-OSHA Admin. Order 2-1995, f. 1/25/95, ef. 1/25/95.

OR-OSHA Admin. Order 4-1995, f. 3/29/95, ef. 3/29/95.

OR-OSHA Admin. Order 5-1995, f. 4/6/95, ef. 4/6/95.

OR-OSHA Admin. Order 8-1995, f. 8/25/95, ef. 8/25/95.

OR-OSHA Admin. Order 5-1996, f. 11/29/96, ef. 18/29/96.

OR-OSHA Admin. Order 6-1996, f. 11/29/96, ef. 11/29/96.

OR-OSHA Admin. Order 3-1997, f. 3/28/97, ef. 3/28/97.

OR-OSHA Admin. Order 4-1997, f. 4/2/97, ef. 4/2/97.

OR-OSHA Admin. Order 6-1997, f. 5/2/97, ef. 5/2/97.

OR-OSHA Admin. Order 7-1998, f. 12/28/98, ef. 12/28/98.

OR-OSHA Admin. Order 4-2001, f. 2/5/01, ef. 2/5/01.

OR-OSHA Admin. Order 4-2003, f. 5/6/03, ef. 5/6/03.

OR-OSHA Admin. Order 8-2004, f. 12/30/04, ef. 12/30/04.

OR-OSHA Admin. Order 1-2005, f. 4/12/05, ef. 4/12/05.

OR-OSHA Admin. Order 4-2006, f. 7/24/06, ef. 7/24/06.

OR-OSHA Admin. Order 6-2006, f. 8/30/06, ef. 8/30/06.

OR-OSHA Admin. Order 10-2006, f. 11/30/06, ef. 11/30/06.

OR-OSHA Admin. Order 1-2007, f. 1/9/07, ef. 1/16/07.

OR-OSHA Admin. Order 5-2008, f. 5/1/08, ef. 5/15/08.

OR-OSHA Admin. Order 5-2009, f. 5/29/09, ef. 5/29/09.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

## DIVISION 5, MARITIME ACTIVITIES

### PART 1917 – MARINE TERMINALS

437-005-0002

Adoption by Reference.

In addition to, and not in lieu of, any other safety and health codes contained in OAR Chapter 437, the Department adopts by reference the following federal [~~rules as~~ **regulations** printed [~~in~~ **as part of** the Code of Federal Regulations, 29 CFR 1917, [~~revised as of 7/1/97, and any subsequent amendments published~~] in the Federal Register [~~as listed below~~]:

(1) Subdivision A

(a) 29 CFR 1917.1 Scope and applicability, published [~~7/5/83, Federal Register (FR) vol. 48, p. 30909; amended 12/31/87, FR vol. 52, p. 36026; 12/31/87, FR vol. 52, p. 49624; 7/25/97, FR~~

- vol. 62, no. 143, p. 40196; 6/30/00, FR vol. 65, no. 127, p. 40938;] 2/28/06, FR vol. 71, no. 39, p. 10100.
- (b) 29 CFR 1917.2 Definitions, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40196;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1917.3 Incorporation by reference, published [~~7/25/97, FR vol. 62, no. 143, p. 40196; 6/30/00, FR vol. 65, no. 127, p. 40938~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (d) 29 CFR 1917.5 Compliance duties owed to each employee, published 12/12/08, FR vol. 73, no. 240, pp.75568-75589
- (2) Subdivision B
- (a) 29 CFR 1917.11 Housekeeping, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40196.
- (b) 29 CFR 1917.12 Slippery conditions, published 7/5/83, FR vol. 48, p. 30909.
- (c) 29 CFR 1917.13 Slinging, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40197.
- (d) 29 CFR 1917.14 Stacking of cargo and pallets, published 7/5/83, FR vol. 48, p. 30909.
- (e) 29 CFR 1917.15 Coopering, published 7/5/83, FR vol. 48, p. 30909.
- (f) 29 CFR 1917.16 Line handling, published 7/5/83, FR vol. 48, p. 30909.
- (g) 29 CFR 1917.17 Railroad facilities, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40197.
- (h) 29 CFR 1917.18 Log handling, published 7/5/83, FR vol. 48, p. 30909.
- (i) 29 CFR 1917.19 Movement of barges and rail cars, published 7/5/83, FR vol. 48, p. 30909.
- (j) 29 CFR 1917.20 Interference with communications, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40197.
- (k) 29 CFR 1917.21 Open fires, published 7/5/83, FR vol. 48, p. 30909.
- (l) 29 CFR 1917.22 Hazardous cargo (see 1917.2(p)), published 7/5/83, FR vol. 48, p. 30909.
- (m) 29 CFR 1917.23 Hazardous atmospheres and substances (see 1917.2(p)), published [~~7/5/83, FR vol. 48, p. 30909; amended 7/13/84, FR vol. 49, p. 28551; 7/25/97, FR vol. 62, no. 143, p. 40197;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (n) 29 CFR 1917.24 Carbon monoxide, published [~~7/5/83, FR vol. 48, p. 30909; amended 7/13/84, FR vol. 49, p. 28551;~~] 7/25/97, FR vol. 62, no. 143, p. 40197.
- (o) 29 CFR 1917.25 Fumigants, pesticides, insecticides and hazardous preservatives (see 1917.2(p)), published [~~7/5/83, FR vol. 48, p. 30909; amended 7/13/84, FR vol. 49, p. 28551; 7/25/97, FR vol. 62, no. 143, p. 40197;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (p) 29 CFR 1917.26 First aid and lifesaving facilities, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40197;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (q) 29 CFR 1917.27 Personnel, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40197;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (r) 29 CFR 1917.28 Hazard communication (see also §1917.1(a)(2)(vi)), published [~~7/5/83, FR vol. 48, p. 30909; amended 9/24/87, FR vol. 52, p. 31876; 4/27/88, FR vol. 53, p. 15035; 2/15/89, FR vol. 54, p. 6888; 6/7/89, FR vol. 54, p. 24334; 2/9/94, FR vol. 59, no. 27, pp. 6126-6184; 4/13/94, FR vol. 59, no. 71, pp. 17478-17479; 12/22/94, FR vol. 59, no. 245, p. 65947;~~] 7/25/97, FR vol. 62, no. 143, p. 40198.
- (s) 29 CFR 1917.29 Retention of DOT markings, placards and labels, published 7/19/94, Federal Register, vol. 59, no. 137, p. 36700.
- (t) 29 CFR 1917.30 Emergency action plans, published [~~7/25/97, FR vol. 62, no. 143, p. 40198;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (3) Subdivision C
- (a) 29 CFR 1917.41 House falls, published 7/5/83, FR vol. 48, p. 30909.
- (b) 29 CFR 1917.42 Miscellaneous auxiliary gear, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40198;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.

- (c) 29 CFR 1917.43 Powered industrial trucks, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40198;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (d) 29 CFR 1917.44 General rules applicable to vehicles, published [~~7/5/83, FR vol. 48, p. 30909; amended 9/25/87, FR vol. 52, p. 36026; 7/25/97, FR vol. 62, no. 143, p. 40199;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (e) 29 CFR 1917.45 Cranes and derricks (see also §1917.50), published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40199;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (f) 29 CFR 1917.46 Load indicating devices, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40199.
- (g) 29 CFR 1917.47 Winches, published 7/5/83, FR vol. 48, p. 30909.
- (h) 29 CFR 1917.48 Conveyors, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40200.
- (i) 29 CFR 1917.49 Spouts, chutes, hoppers, bins, and associated equipment, published 7/5/83, FR vol. 48, p. 30909.
- (j) 29 CFR 1917.50 Certification of marine terminal material handling devices (see also Mandatory Appendix IV, Part 1918 of this chapter), published [~~7/5/83, FR vol. 48, p. 30909; amended 7/13/84, FR vol. 49, p. 28551; 7/25/97, FR vol. 62, no. 143, p. 40200;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (k) 29 CFR 1917.51 Hand tools, published 7/5/83, FR vol. 48, p. 30909.
- (4) Subdivision D
- (a) 29 CFR 1917.70 General, published 7/5/83, FR vol. 48, p. 30909.
- (b) 29 CFR 1917.71 Terminals handling intermodal container or roll-on roll-off operations, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40200; 6/30/00, FR vol. 65, no. 127, p. 40938;~~] 12/10/08, FR vol. 73, no. 238, pp. 75246-75290.
- (c) 29 CFR 1917.72 (Reserved)
- (d) 29 CFR 1917.73 Terminal facilities handling menhaden and similar species of fish (see also §1917.2, definition of hazardous cargo, materials, substance, or atmosphere), published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (5) Subdivision E
- (a) 29 CFR 1917.91 Eye and face protection, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (b) 29 CFR 1917.92 Respiratory protection, published [~~7/5/83, FR vol. 48, p. 30909;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1917.93 Head protection, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (d) 29 CFR 1917.94 Foot protection, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (e) 29 CFR 1917.95 Other protective measures, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (f) 29 CFR 1917.96 Payment for protective equipment, published 11/15/07, FR vol. 72, no. 220, p. 64342.
- (6) Subdivision F
- (a) 29 CFR 1917.111 Maintenance and load limits, published 7/5/83, FR vol. 48, p. 30909.
- (b) 29 CFR 1917.112 Guarding of edges, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1917.113 Clearance heights, published 7/5/83, FR vol. 48, p. 30909.
- (d) 29 CFR 1917.114 Cargo doors, published 7/5/83, FR vol. 48, p. 30909.
- (e) 29 CFR 1917.115 Platforms and skids, published 7/5/83, FR vol. 48, p. 30909.
- (f) 29 CFR 1917.116 Elevators and escalators, published [~~7/5/83, FR vol. 48, p. 30909;~~ amended] 7/13/84, FR vol. 49, p. 28551.

- (g) 29 CFR 1917.117 Manlifts, published [~~7/5/83, FR vol. 48, p. 30909;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (h) 29 CFR 1917.118 Fixed ladders, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (i) 29 CFR 1917.119 Portable ladders, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (j) 29 CFR 1917.120 Fixed stairways, published [~~7/5/83, FR vol. 48, p. 30909;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (k) 29 CFR 1917.121 Spiral stairways, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (l) 29 CFR 1917.122 Employee exits, published [~~7/5/83, FR vol. 48, p. 30909;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (m) 29 CFR 1917.123 Illumination, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40201.
- (n) 29 CFR 1917.124 Dockboards (car and bridge plates), published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40201;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (o) 29 CFR 1917.125 Guarding temporary hazards, published 7/5/83, FR vol. 48, p. 30909.
- (p) 29 CFR 1917.126 River banks, published [~~7/5/83, FR vol. 48, p. 30909;~~] 7/25/97, FR vol. 62, no. 143, p. 40201.
- (q) 29 CFR 1917.127 Sanitation, published 7/5/83, FR vol. 48, p. 30909.
- (r) 29 CFR 1917.128 Signs and marking, published 7/5/83, FR vol. 48, p. 30909.
- (7) Subdivision G
  - (a) 29 CFR 1917.151 Machine guarding, published [~~7/5/83, FR vol. 48, p. 30909;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
  - (b) 29 CFR 1917.152 Welding, cutting and heating (hot work) (see also §1917.2, definition of hazardous cargo, materials, substance, or atmosphere), published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
  - (c) 29 CFR 1917.153 Spray painting (see also §1917.2, definition of hazardous cargo, materials, substance, or atmosphere), published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
  - (d) 29 CFR 1917.154 Compressed air, published 7/5/83, FR vol. 48, p. 30909.
  - (e) 29 CFR 1917.155 Air receivers, published 7/5/83, FR vol. 48, p. 30909.
  - (f) 29 CFR 1917.156 Fuel handling and storage, published [~~7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
  - (g) 29 CFR 1917.157 Battery charging and changing, published 7/5/83, FR vol. 48, p. 30909; 7/25/97, FR vol. 62, no. 143, p. 40202.
  - (h) 29 CFR 1917.158 Prohibited operations, published 7/5/83, FR vol. 48, p. 30909.

These standards are available at the Department of Consumer and Business Services, Oregon Occupational Safety and Health Division, and the United States Government Printing Office.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 to 654.295.

Hist: OR-OSHA Admin. Order 9-1992, f. 9/24/92, ef. 11/1/92.

OR-OSHA Admin. Order 4-1994, f. 8/4/94, ef. 8/4/94.

OR-OSHA Admin. Order 1-1995, f. 1/19/95, ef. 1/19/95.

OR-OSHA Admin. Order 5-1995, f. 4/6/95, ef. 4/6/95.

OR-OSHA Admin. Order 9-1997, f. 12/31/97, ef. 12/31/97.

OR-OSHA Admin. Order 9-2000, f. 10/10/00, ef. 10/10/00.

OR-OSHA Admin. Order 6-2006, f. 8/30/06, ef. 8/30/06.

OR-OSHA Admin. Order 5-2008, f. 5/1/08, ef. 5/15/08.

OR-OSHA Admin. Order 5-2009, f. 5/29/09, ef. 5/29/09.

## PART 1918 - SAFETY AND HEALTH REGULATIONS FOR LONGSHORING

437-005-0003

Adoption by Reference.

In addition to, and not in lieu of, any other safety and health codes contained in OAR Chapter 437, the Department adopts by reference the following federal ~~rules as~~ **regulations** printed ~~in~~ **as part of** the Code of Federal Regulations, 29 CFR 1918, ~~[revised as of 7/1/97, and any subsequent amendments published]~~ in the Federal Register ~~[as listed below]:~~

(1) Subdivision A

(a) 29 CFR 1918.1 Scope and application, published ~~[7/25/97, Federal Register (FR) vol. 62, no. 143, p. 40202; 6/30/00, FR vol. 65, no. 127, p. 40938;]~~ 2/28/06, FR vol. 71, no. 39, p. 10100.

(b) 29 CFR 1918.2 Definitions, published ~~[7/25/97, FR vol. 62, no. 143, p. 40202;]~~ 6/30/00, FR vol. 65, no. 127, p. 40938.

(c) 29 CFR 1918.3 Incorporation by reference, published ~~[7/25/97, FR vol. 62, no. 143, p. 40202]~~ **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**

(d) 29 CFR 1918.5 Compliance duties owed to each employee, published 12/12/08, FR vol. 73, no. 240, pp. 75568-75589.

(2) Subdivision B

(a) 29 CFR 1918.11 Gear certification (see also §§1918.2 and 1918.51), published 7/25/97, FR vol. 62, no. 143, p. 40202.

(3) Subdivision C

(a) 29 CFR 1918.21 General requirements, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(b) 29 CFR 1918.22 Gangways, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(c) 29 CFR 1918.23 Jacob's ladders, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(d) 29 CFR 1918.24 Fixed and portable ladders, published ~~[7/25/97, FR vol. 62, no. 143, p. 40202;]~~ 6/30/00, FR vol. 65, no. 127, p. 40938.

(e) 29 CFR 1918.25 Bridge plates and ramps (see also §1918.86), published ~~[7/25/97, FR vol. 62, no. 143, p. 40202;]~~ 6/30/00, FR vol. 65, no. 127, p. 40938.

(f) 29 CFR 1918.26 Access to barges and river towboats, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(4) Subdivision D

(a) 29 CFR 1918.31 Hatch coverings, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(b) 29 CFR 1918.32 Stowed cargo and temporary landing surfaces, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(c) 29 CFR 1918.33 Deck loads, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(d) 29 CFR 1918.34 Other decks, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(e) 29 CFR 1918.35 Open hatches, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(f) 29 CFR 1918.36 Weather deck rails, published 7/25/97, FR vol. 62, no. 143, p. 40202.

(g) 29 CFR 1918.37 Barges, published ~~[7/25/97, FR vol. 62, no. 143, p. 40202;]~~ 6/30/00, FR vol. 65, no. 127, p. 40938.

(5) Subdivision E

(a) 29 CFR 1918.41 Coaming clearances, published ~~[7/25/97, FR vol. 62, no. 143, p. 40202;]~~ 6/30/00, FR vol. 65, no. 127, p. 40938.

- (b) 29 CFR 1918.42 Hatch beam and pontoon bridles, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1918.43 Handling hatch beams and covers, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (6) Subdivision F
- (a) 29 CFR 1918.51 General requirements (see also §1918.11 and Appendix III of this part), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (b) 29 CFR 1918.52 Specific requirements, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1918.53 Cargo winches, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (d) 29 CFR 1918.54 Rigging gear, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (e) 29 CFR 1918.55 Cranes (see also §1918.11), published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (7) Subdivision G
- (a) 29 CFR 1918.61 General (see also Appendix IV of this part), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (b) 29 CFR 1918.62 Miscellaneous auxiliary gear, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1918.63 Chutes, gravity conveyors and rollers, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (d) 29 CFR 1918.64 Powered conveyors, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (e) 29 CFR 1918.65 Mechanically-powered vehicles used aboard vessels, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (f) 29 CFR 1918.66 Cranes and derricks other than vessel's gear, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (g) 29 CFR 1918.67 Notifying ship's officers before using certain equipment, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (h) 29 CFR 1918.68 Grounding, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (i) 29 CFR 1918.69 Tools, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (j) 29 CFR 1918.70 - 1918.80 (Reserved)
- (8) Subdivision H
- (a) 29 CFR 1918.81 Slings, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (b) 29 CFR 1918.82 Building drafts, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (c) 29 CFR 1918.83 Stowed cargo, tiering and breaking down, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (d) 29 CFR 1918.84 Bulling cargo, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (e) 29 CFR 1918.85 Containerized cargo operations, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938;] 12/10/08, FR vol. 73, no. 238, pp. 75246-75290.
- (f) 29 CFR 1918.86 Roll-on roll-off (Ro-Ro) operations (see also §1918.25), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~ 6/30/00, FR vol. 65, no. 127, p. 40938.
- (g) 29 CFR 1918.87 Ship's cargo elevators, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (h) 29 CFR 1918.88 Log operations, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (i) 29 CFR 1918.89 Handling hazardous cargo (see also §§1918.2 and 1918.99), published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (9) Subdivision I
- (a) 29 CFR 1918.90 Hazard communication (see also §1918.1(b)(4)), published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (b) 29 CFR 1918.91 Housekeeping, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (c) 29 CFR 1918.92 Illumination, published 7/25/97, FR vol. 62, no. 143, p. 40202.

- (d) 29 CFR 1918.93 Hazardous atmospheres and substances (see also §1918.2(j)), published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (e) 29 CFR 1918.94 Ventilation and atmospheric conditions (see also §1918.2), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (f) 29 CFR 1918.95 Sanitation , published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (g) 29 CFR 1918.96 Maintenance and repair work in the vicinity of longshoring operations, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (h) 29 CFR 1918.97 First aid and lifesaving facilities (see also Appendix V of this part), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (i) 29 CFR 1918.98 Qualifications of machinery operators and supervisory training, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (j) 29 CFR 1918.99 Retention of DOT markings, placards and labels, published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (k) 29 CFR 1918.100 Emergency action plans, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (10) Subdivision J
- (a) 29 CFR 1918.101 Eye and face protection, published [~~7/25/97, FR vol. 62, no. 143, p. 40202~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (b) 29 CFR 1918.102 Respiratory protection, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (c) 29 CFR 1918.103 Head protection, published [~~7/25/97, FR vol. 62, no. 143, p. 40202~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (d) 29 CFR 1918.104 Foot protection, published [~~7/25/97, FR vol. 62, no. 143, p. 40202~~] **9/9/09, FR vol. 74, no. 173, pp. 46350-46361.**
- (e) 29 CFR 1918.105 Other protective measures, published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (f) 29 CFR 1918.106 Payment for protective equipment, published 11/15/07, FR vol. 72, no. 220, p. 64342.
- (11) Appendix I – Cargo Gear Register and Certificates (Non-Mandatory), published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (12) Appendix II – Tables for Selected Miscellaneous Auxiliary Gear (Mandatory), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (13) Appendix III – The Mechanics of Conventional Cargo Gear (Non-Mandatory), published 7/25/97, FR vol. 62, no. 143, p. 40202.
- (14) Appendix IV – Special Cargo Gear (Mandatory), published [~~7/25/97, FR vol. 62, no. 143, p. 40202;~~] 6/30/00, FR vol. 65, no. 127, p. 40938.
- (15) Appendix V – Basic Elements of a First Aid Training Program (Non-Mandatory), published 7/25/97, FR vol. 62, no. 143, p. 40202.

These standards are available at the Department of Consumer and Business Services, Oregon Occupational Safety and Health Division, and the United States Government Printing Office.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 to 654.295.

Hist: OR-OSHA Admin. Order 9-1992, f. 9/24/92, ef. 11/1/92.

OR-OSHA Admin. Order 4-1994, f. 8/4/94, ef. 8/4/94.

OR-OSHA Admin. Order 1-1995, f. 1/19/95, ef. 1/19/95.

OR-OSHA Admin. Order 5-1995, f. 4/6/95, ef. 4/6/95.

OR-OSHA Admin. Order 9-1997, f. 12/31/97, ef. 12/31/97.

OR-OSHA Admin. Order 9-2000, f. 10/10/00, ef. 10/10/00.

OR-OSHA Admin. Order 6-2006, f. 8/30/06, ef. 8/30/06.

OR-OSHA Admin. Order 5-2008, f. 5/1/08, ef. 5/15/08.

OR-OSHA Admin. Order 5-2009, f. 5/29/09, ef. 5/29/09.  
OR-OSHA Admin. Order 6-2009, f. 6/5/09, ef. 6/5/09.  
**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**

## DIVISION 7, FOREST ACTIVITIES

### Division 7/D, Personal Protective Equipment and Programs

437-007-0305 Head Protection.

(1) Where there is potential for head injury from falling or flying objects, the employer must provide and require the use of head protection (hard hats) that compl[ies]y with [~~American National Standard, ANSI Z89.1-1997, Protective Headwear for Industrial Workers— Requirements.]~~ **any of the following consensus standards:**

**(a) ANSI Z89.1-2003, “American National Standard for Industrial Head Protection;”**

**(b) ANSI Z89.1-1997, “American National Standard for Industrial Head Protection;”**  
**or**

**(c) ANSI Z89.1-1986, “American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements.”**

**NOTE: The Oregon OSHA Resource Center has copies for public review at 350 Winter Street NE, Salem OR 97309-0405.**

EXCEPTION: Employees working in or under a vehicle cab or canopy are excluded from wearing a hard hat while in, or under, a vehicle.

(2) The employer must replace, at no cost to the employee, head protection (hard hat) that is no longer serviceable because of reasonable wear and tear.

Stat. Auth.: ORS 654.025(2) and 656.726(4).

Stats. Implemented: ORS 654.001 through 654.295.

Hist: OR-OSHA Admin. Order 5-2003, f. 6/02/03, ef. 12/01/03.

**OR-OSHA Admin. Order 2-2010, f. 2/25/10, ef. 2/25/10.**