

## Division 2/D **Walking-Working Surfaces**

### Safety Requirements for Scaffolding

**1910.28(d)(14)** "Periodic inspections shall be made of all welded frames and accessories, and any maintenance, including painting, or minor corrections authorized by the manufacturer."

### Manually Propelled Mobile Ladder Stands and Scaffolds

**1910.29 (b)(5) Erection.** "Only the manufacturer of a scaffold or his qualified designated agent shall be permitted to erect or supervise the erection of scaffolds exceeding 50 feet in height above the base, unless such structure is approved in writing by a registered professional engineer, or erected in accordance with instructions furnished by the manufacturer."

### Portable Ladders

**437-002-0026 (1) Definitions.** "Working Load Rating. The maximum load authorized by the manufacturer for the ladder."

## Division 2/F **Powered Platforms**

### Powered Platforms for Building Maintenance

**1910.66(d) Definitions.** "Rated load means the manufacturer's recommended maximum load."

### Powered Platforms for Building Maintenance - Appendix C

**1910.66 (k) Free fall considerations.** "The employer and employee should at all times be aware that a system's maximum arresting force is evaluated under normal use conditions established by the manufacturer, and in no case using a free fall distance in excess of 6 feet (1.8 m)."

### Vehicle-Mounted Elevating and Rotating Work Platforms

**1910.67 (b)(2)** "Aerial lifts may be 'field modified' for uses other than those intended by the manufacturer, provided the modification has been certified in writing by the manufacturer or by any other equivalent entity..."

## Division 2/H **Hazardous Materials**

### Explosives and Blasting Agents

**1910.109 (c)(5)(4)** "... Magazine floors stained with nitroglycerin shall be cleaned according to instructions by the manufacturer."

### Storage and Handling of Liquefied Petroleum Gases

**1910.110 (b)(7)(iii)** "Excess flow valves, where required shall close automatically at the rated flows of vapor or liquid as specified by the manufacturer."

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Storage and Handling of Anhydrous Ammonia

**1910.111 (b)(6)(iii)** “Excess flow valves where required by these standards shall close automatically at the rated flows of vapor or liquid as specified by the manufacturer.”

## Division 2/I **Personal Protective Equipment**

### Appendix A – Fit testing procedures

**1910.134 8.** “The test subject shall conduct a user seal check, either the negative and positive pressure seal checks described in Appendix B-1 of this section or those recommended by the respirator manufacturer which provide equivalent protection to the procedures in Appendix B-1.”

### Appendix B-2 – Respirator cleaning procedures

**1910.134** “These procedures are provided for employer use when cleaning respirators. They are general in nature, and the employer as an alternative may use the cleaning recommendations provided by the manufacturer of the respirators used by their employees, provided such procedures are as effective as those listed here in Appendix B-2.”

### Respiratory Protection

**1910.134 (g)(1)(iii)** “For all tight-fitting respirators, the employer shall ensure that employees perform a user seal check each time they put on the respirator using the procedures in Appendix B-1 or procedures recommended by the respirator manufacturer that the employer demonstrates are as effective as those in Appendix B-1 of this section.”

## Division 2/J **General Environmental Controls**

### Appendix B – Procedures for Atmospheric Testing

**1910.146 (3) Duration of testing.** “Measurement of values for each atmospheric parameter should be made for at least the minimum response time of the test instrument specified by the manufacturer.”

## Division 2/M **Compressed Gas and Compressed Air Equipment**

### Additional Oregon Rules for Compressed Air and Compressed Gas Equipment

**437-002-0210 (2)(b)** “The only non-metallic pipe acceptable for pressure line service with gaseous substances is that which is recommended and listed by its manufacturer as designed for compressed air or gas service.”

## Division 2/N **Material Handling and Storage**

### Servicing Multi-piece and Single Piece Rim Wheels

**1910.177 (d)(3)(IV)** “Restraining devices or barriers requiring structural repair such as component replacement or rewelding shall not be returned to service until they are certified by either the

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

manufacturer or a Registered Professional Engineer as meeting the strength requirements of paragraph (d)(3)(i) of this section.”

### Powered Industrial Trucks

**1910.178 (q)(6)** “... Additional counterweighting of fork trucks shall not be done unless approved by the truck manufacturer.”

### Overhead and Gantry Cranes

**1910.179 (H)(2)(ii)** “Socketing shall be done in the manner specified by the manufacturer of the assembly.”

### Crawler Locomotive and Truck Cranes

**1910.180 (I)(1)** “Preventive maintenance. A preventive maintenance program based on the crane manufacturer's recommendations shall be established.”

### Derricks

**1910.181 (c)(1)(i)** “The chart shall include the following data... Manufacturer's approved load ratings at corresponding ranges of boom angle or operating radii.”

### Slings

**1910.184(e)(5) Sling use.** “Alloy steel chain slings shall not be used with loads in excess of the rated capacities prescribed in Table N-184-1. Slings not included in this table shall be used only in accordance with the manufacturer's recommendations.”

### Additional Oregon Rules for Handling Materials

**437-002-0221(13)(a)** “All equipment, structures, and appurtenances used for handling or storing materials shall be designed, constructed, and maintained in accordance with sound engineering practices and the specifications and recommendations of the manufacturer.”

### Oregon General Requirements for Cranes

**437-002-0228 (1)(c)** “Attachments used with cranes shall not exceed the capacity, rating, or scope recommended by the manufacturer.”

### Additional Oregon Rules for Crawler, Locomotive and Truck Cranes

**437-002-0230 (3) Booms.** “When sections of booms are added or removed, the full number of bolts or pins of the material and size recommended by the manufacturer, or bolts or pins furnishing equivalent strength, shall be used to secure the sections together.”

### Oregon Rules for Hammerhead Cranes

**437-002-0233 (2)(e)** “All hammerhead cranes in use shall meet the applicable requirements for design, construction, installation, testing, maintenance, inspection, and operation as prescribed by the manufacturer and to ensure compliance with the rules in this division.”

### Division 2/O **Machinery and Machine Guarding**

#### Mechanical Power Presses

**1910.217 (h)(3)(ii)(B)** “Counterbalances shall be adjusted in accordance with the press manufacturer's recommendations to assure correct counterbalancing of the slide attachment (upper die) weight for all operations performed on presses used in the PSDI mode.”

#### Mechanical Power Presses - Appendix A

**1910.217 3. Compliance with §1910.217(h)(2)(ii)** “... The recommendations of the brake system manufacturer shall be used to simulate or estimate the brake wear. The manufacturer's recommended minimum lining depth shall be identified and documented, and an evaluation made that the minimum depth will not be exceeded before the next (annual) recertification/revalidation.”

#### Mechanical Power Presses - Appendix D

**1910.217 9. Safeguarding the Point of Operation.** “In deriving the safety distance required in paragraph (h)(9)(v), all stopping time measurements should be made with clutch/brake air pressure regulated to the press manufacturer's recommended value for full clutch torque capability.”

#### Mechanical Power-Transmission Apparatus

**1910.219 (d)(4) Pulley speeds.** “Pulleys intended to operate at rim speed in excess of manufacturers normal recommendations shall be specially designed and carefully balanced for the speed at which they are to operate.”

#### Oregon Rules for Refuse Collection and Compaction Equipment

**437-002-0256 (2)** “You must...Install the equipment according to the manufacturer's instructions.”

### Division 2/P **Hand and Portable Powered Tools and Other Hand-Held Equipment**

#### Guarding of Portable Powered Tools

**1910.243 (d)(4)(v)** “In case of a misfire, the operator shall hold the tool in the operating position for at least 30 seconds. The operator shall then try to operate the tool a second time. He/she then shall wait another 30 seconds, holding the tool in the operating position; then he shall proceed to remove the explosive load in strict accordance with the manufacturer's instructions.”

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

#### General Requirements

**1910.252 (c)(11)(i) Manufacturer's instructions.** “In the use of cleaning materials, because of their possible toxicity or flammability, appropriate precautions such as manufacturer's instructions shall be followed.”

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Oxygen-fuel Gas Welding And Cutting

**1910.253 (e)(1) General.** "Equipment shall be installed and used only in the service for which it is approved and as recommended by the manufacturer."

### Arc Welding And Cutting

**1910.254 (d)(6) Manufacturers' instructions.** "Printed rules and instructions covering operation of equipment supplied by the manufacturers shall be strictly followed."

### Oxygen-fuel Gas - Operating Procedures

**437-002-0292 (2)** "Operators shall follow the procedure outlined by the manufacturer of the apparatus as they deal with the sequence of operations in lighting, adjusting, and extinguishing blowpipe flames and connecting the apparatus to the sources of gas supply."

## Division 2/R **Special Industries**

### Textiles

**1910.262 (y)(1)(iv) Maximum allowable speed.** "Each centrifugal extractor shall be effectively secured in position on the floor or foundation so as to eliminate unnecessary vibration, and should not be operated at a speed greater than the manufacturer's rating, which shall be stamped where easily visible in letters not less than 1/4-inch in height."

### Sawmills

**1910.265 (c)(25)(i) Safe usage.** "Ropes, cables, slings, and chains shall be used in accordance with safe use practices recommended by the manufacturer or within safe limits recommended by the equipment manufacturer when used in conjunction with it."

### Telecommunications

**1910.268 (j)(4)(iv)(F)** "The employer shall ensure that the derrick and its associated equipment are inspected by a competent person at intervals set by the manufacturer but in no case less than once per year."

### Electric Power Generation, Transmission And Distribution

**1910.269 (r)(5)(vii)** "Power saw engines shall be stopped for all cleaning, refueling, adjustments, and repairs to the saw or motor, except as the manufacturer's servicing procedures require otherwise."

### Appendix A - Grain Handling Facilities

**1910.272 Dust Emissions** "... The employer should also obtain maintenance, testing, and inspection information from the manufacturer to ensure that the system will continue to operate as designed."

### Grain Handling Facilities

**1910.272 (m)(1)(ii)** "Lubrication and other appropriate maintenance in accordance with manufacturers' recommendations, or as determined necessary by prior operating records."

### Portable Power Tools

**437-002-0308 (1)(d)(A)** "...Use electric hand tools in accordance with the manufacturer's instructions."

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Work Procedures

**437-002-0310 (6)(n)** “Chipper operators must be familiar with the manufacturer's operating instructions, maintenance and safe work practices.”

### Oregon Rules For Pulp, Paper And Paperboard Mills

**437-002-0312 (3)(h)(B)** “Emergency lighting shall be maintained in accordance with the manufacturer or engineering specifications, and shall be checked at least every 30 days for defects.”

### Shake and Shingle Machinery

**437-002-0315 (7)(d)(A)** “No band wheel shall be run at a peripheral speed in excess of that recommended by the manufacturer.”

### Oregon Rules For Telecommunications

**437-002-0316 (4)** “All equipment, tools, and safety devices shall be installed, used and operated in accordance with the manufacturer's recommendations and operating instructions and its listing or labeling.”

## Division 2/S **Electrical**

### Definitions Applicable to This Subdivision

**1910.399 (3)** “With respect to custom-made equipment or related installations which are designed, fabricated for, and intended for use by a particular customer, if it is determined to be safe for its intended use by its manufacturer on the basis of test data which the employer keeps and makes available for inspection to the Assistant Secretary and his authorized representatives.”

## Division 2/T **Commercial Diving Operations**

### Appendix C – Alternative Conditions Under 1910.401(a)(3)

**1910.401 1. (c)(ii)** “Each employee uses the moisture trap according to the rebreather manufacturer's instructions.”

## Division 2/Z **Toxic and Hazardous Substances**

### Appendix B - Detailed Procedure for Asbestos Sampling

**1910.1001 6.6. Sample Analysis.** “Completely align the microscope according to the manufacturer's instructions.”

### Appendix E - Cadmium in Workplace Atmospheres

**1910.1027 3.10.1.** “Set up the atomic absorption spectrophotometer for the air/acetylene flame analysis of cadmium according to the SOP (5.8.) or the manufacturer's operational instructions.”

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Cotton Dust

**1910.1043 (d)(1)(iii)** "If an alternative to the vertical elutriator cotton dust sampler is used, the employer shall establish equivalency by reference to an OSHA opinion or by documenting, based on data developed by the employer or supplied by the manufacturer, that the alternative sampling devices meets the following criteria..."

## Division 3/D Occupational Health and Environmental Controls

### Portable Ladders

**437-004-0340 (7)(a)** "... Do not allow more than one person at a time on ladders not intended by the manufacturer to hold more than one person."

## Division 3/E Personal Protective and Life Saving Equipment

### Appendix Av – Fit testing procedures

**1926.103 C. 1. (b)** "The employer shall ensure that QNFT equipment is kept clean, and is maintained and calibrated according to the manufacturer's instructions so as to operate at the parameters for which it was designed."

### Appendix B-1 – User Seal Check Procedures

**1926.103** "Either the positive and negative pressure checks listed in this appendix, or the respirator manufacturer's recommended user seal check method shall be used."

### Appendix B-2 - Respirator Cleaning Procedures

**1926.103** "They are general in nature, and the employer as an alternative may use the cleaning recommendations provided by the manufacturer of the respirators used by their employees, provided such procedures are as effective as those listed here in Appendix B-2."

### Appendix D - Information for Employees Using Respirators When Not

**1926.103 1.** "Read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirators limitations."

### Respiratory protection

**1926.103 (g)(1)(iii)** "For all tight-fitting respirators, the employer shall ensure that employees perform a user seal check each time they put on the respirator using the procedures in Appendix B-1 or procedures recommended by the respirator manufacturer that the employer demonstrates are as effective as those in Appendix B-1 of this section."

### Division 3/H **Materials Handling, Storage, Use and Disposal**

#### Rigging equipment for material handling

**1926.251 (b)(c)(1)** "... For sizes, classifications, and grades not included in these tables, the safe working load recommended by the manufacturer for specific, identifiable products shall be followed, provided that a safety factor of not less than 5 is maintained."

### Division 3/I **Tools - Hand and Power**

#### Power-operated hand tools

**1926.302 (b)(5)** "The manufacturer's safe operating pressure for hoses, pipes, valves, filters, and other fittings shall not be exceeded."

#### Appendix B-2 - Respirator Cleaning Procedures

**437-004-1041 (D)** "Other commercially available cleansers of equivalent disinfectant quality, if the respirator manufacturer recommends their use."

#### Working Underway on Water

**437-004-1070 (2)(b)** "Serviceable condition - means the flotation device is able to perform the function that the manufacturer intended."

### Division 3/L **Scaffolding**

#### General requirements - scaffolds

**1926.451 (c)(1)(ii)** "Guys, ties, and braces shall be installed according to the scaffold manufacturer's recommendations or at the closest horizontal member to the 4:1 height and be repeated vertically at locations of horizontal members every 20 feet (6.1 m) or less thereafter for scaffolds 3 feet (0.91 m) wide or less, and every 26 feet (7.9 m) or less thereafter for scaffolds greater than 3 feet (0.91 m) wide."

#### Additional requirements - scaffolds

**1926.452 (y)(4)** "Stilts shall be properly maintained. Any alteration of the original equipment shall be approved by the manufacturer."

#### Aerial lifts

**1926.453 (b)(2)(vi)** "Boom and basket load limits specified by the manufacturer shall not be exceeded."

#### Manually propelled elevating aerial platforms

**437-003-0071 (1)** "When using manually propelled elevating aerial platforms... You must follow all operating and maintenance instructions and recommendations of the manufacturer."

#### Boom supported elevating work platforms

**437-003-0073 (1)** "When using boom supported elevating work platforms...You must follow all operating and maintenance instructions and recommendations of the manufacturer."

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Scissor lifts - self-propelled elevating work platforms

**437-003-0074 (1)** “When using self-propelled elevating aerial platforms... You must follow all operating and maintenance instructions and recommendations of the manufacturer.”

## Division 3/M **Fall Protection**

### Slide guard systems

**437-003-3502 (2)(a)** “Roof brackets shall be installed according to the manufacturer's specifications.”

## Division 3/N **Cranes, Derricks, Hoists, Elevators and Conveyors**

### Cranes and derricks

**1926.550 (a)(1)** “The employer shall comply with the manufacturer's specifications and limitations applicable to the operation of any and all cranes and derricks.”

### Material hoists, personnel hoists, and elevators

**1926.552 (a)(1)** “The employer shall comply with the manufacturer's specifications and limitations applicable to the operation of all hoists and elevators.”

### Base-mounted drum hoists

**1926.553 (a)(4)** “All base-mounted drum hoists in use shall meet the applicable requirements for design, construction, installation, testing, inspection, maintenance, and operations, as prescribed by the manufacturer.”

### Overhead hoists

**1926.554 (a)(6)** “All overhead hoists in use shall meet the applicable requirements for construction, design, installation, testing, inspection, maintenance, and operation, as prescribed by the manufacturer.”

### Wind velocity device

**437-003-0080 (2)(a)** “The wind velocity device is compatible with the manufacturer's crane specifications...”

## Division 3/P **Excavations**

### Requirements for protective systems

**1926.652 (c)(2)(i)** “Design of support systems, shield systems, or other protective systems that are drawn from manufacturer's tabulated data shall be in accordance with all specifications, recommendations, and limitations issued or made by the manufacturer.”

### Requirements for protective systems - Appendix D

**1926.652 (d)(2)(i)** “2-inch cylinders shall be a minimum 2-inch inside diameter with a minimum safe working capacity of no less than 18,000 pounds axial compressive load at maximum extension.”

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

Maximum extension is to include full range of cylinder extensions as recommended by product manufacturer.”

### Requirements for protective systems - Appendix D

**1926.652 Appendix D (d)(2)(ii)** “3-inch cylinders shall be a minimum 3-inch inside diameter with a safe working capacity of not less than 30,000 pounds axial compressive load at extensions as recommended by product manufacturer.”

## Division 3/R **Steel Erection**

### Hoisting and rigging

**1926.753 (c)(1)(F)** “Wire rope reeving for compliance with hoisting equipment manufacturer's specifications...”

## Division 3/S **Underground Construction, Caissons, Cofferdams, and Compressed Air**

### Underground construction

**1926.800 (t)(3)(xviii)** “Wire rope used in load lines of material hoists shall be capable of supporting, without failure, at least five times the maximum intended load or the factor recommended by the rope manufacturer, whichever is greater.”

## Division 3/U **Blasting and use of Explosives**

### Initiation of explosive charges - electric blasting

**1926.906 (d)** “Electric blasting shall be carried out by using blasting circuits or power circuits in accordance with the electric blasting cap manufacturer's recommendations, or an approved contractor or his designated representative.”

### Use of detonating cord

**1926.908 (h)** “When detonating cord millisecond-delay connectors or short-interval-delay electric blasting caps are used with detonating cord, the practice shall conform strictly to the manufacturer's recommendations.”

## Division 3/V **Power Transmission and Distribution**

### Overhead lines

**1926.955 (c)(12)(i)** “Reel handling equipment, including pulling and braking machines, shall have ample capacity, operate smoothly, and be leveled and aligned in accordance with the manufacturer's operating instructions.”

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Operation/Maintenance manual

**437-003-0465** “The operating instructions, proper sequence, and maintenance procedures prescribed by the manufacturer should be followed.”

### Chipper equipment and operation

**437-003-0725 (14)** “Chipper operators must be familiar with the manufacturer's operating instructions, maintenance and safe work practices.”

## Division 3/W **Rollover Protective Structures; Overhead Protection**

### Minimum performance criteria for rollover protective structures

**1926.1001 (g) Definitions** “...For other types of equipment to which this section applies, "vehicle weight" means the manufacturer's maximum recommended weight of the vehicle plus the heaviest attachment.”

### Protective frame for wheel-type agricultural and industrial tractors

**1926.1002 (h)(1)(iv)**... “The tires shall have no liquid ballast, and shall be inflated to the maximum operating pressure recommended by the tire manufacturer.”

## Division 3/Z **Toxic & Hazardous Substances**

### Asbestos

**1926.1101 6.6** “Sample Analysis Completely align the microscope according to the manufacturer's instructions.”

## Division 4/D **Work Surfaces**

### Portable Ladders

**437-004-0340 (7)** “Use - all ladders. Use ladders only for purposes approved or recommended by the manufacturer.”

### Scaffolding

**437-004-0370 (3)(e)** “Do not overload scaffolds. Follow manufacturers' instructions.”

## Division 4/G **Health/Environment**

### Noise Exposure

**437-004-0630 (4)(b)** “All hearing protection equipment and devices must be kept serviceable and clean according to the manufacturer's recommendations or accepted audiological practices.”

### Division **4/H Hazardous Materials**

#### Flammable and Combustible Liquids

**437-004-0720 (8)(a)** "Set heaters, when in use, on a stable, level base; or mount them as specified by the manufacturer."

#### Storage and Handling of Liquefied Petroleum Gases

**437-004-0780 (3)(f)(C)** "Excess flow valves, must close automatically at the rated flows of vapor or liquid as specified by the manufacturer."

#### Storage and Handling of Anhydrous Ammonia

**437-004-0800 (3)(e)(C)** "Excess flow valves where required by these standards must close automatically at the rated flows of vapor or liquid specified by the manufacturer."

### Division **4/I Protective Equipment**

#### General Requirements - protective equipment

**437-004-1005 (7)** "Follow instruction. Wear and use personal protective equipment according to the manufacturer's instructions."

#### Appendix A - Fit Testing Procedures

**437-004-1041 C. (1)(b)** "... The employer must ensure that QNFT equipment is clean, and maintained and calibrated according to the manufacturer's instructions so as to operate at its design parameters."

#### Appendix B-1 - User Seal Check Procedures

**437-004-1041** "They must use one of the two methods below or the manufacturer's recommended method."

#### Appendix B-2 - Respirator Cleaning Procedures

**437-004-1041** "You may also use the manufacturer's recommendations if they meet the objectives of these procedures to prevent harm to the user and/or damage to the respirator."

#### Appendix D - Information for Employees Voluntarily Using Respirators

**437-004-1041 1.** "Read and follow all instructions from the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirators limitations."

#### Respiratory Protection

**437-004-1041 (4)(b)(A)** "Table 1...The employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000."

#### Appendix B-1 - User Seal Check Procedures

**437-004-1041 (II)** "You may use the respirator manufacturer's recommended procedures for performing a user seal check instead of the positive and/or negative pressure check procedures if you can demonstrate that the manufacturer's procedures are equally effective."

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Working Underway on Water

**437-004-1070 (3)(b)** “The PFD must be the right size for the wearer and must be in serviceable condition according to the manufacturer's requirements and recommendations.”

## Division 4/J Work Environment

### Agricultural Labor Housing and Related Facilities

**437-004-1120 (16)(d)(A)(ii)** “Solid or liquid fuel heaters or stoves must meet the manufacturer's specifications and the Oregon state building code in effect at the time of installation.”

## Division 4/K Medical/First Aid

### Medical Services and First Aid

**437-004-1305 (5)(b)(B)** “Install the equipment according to the manufacturer's instructions.”

## Division 4/ M Compressed Gasses

### Air Receivers and Pressure Systems **recommendation**

**437-004-1505 (5)(b)** “To be acceptable for pressure line service with gaseous substances, non-metallic pipe must have its manufacturer's recommendation and listing for compressed air or gas service.”

## Division 4/N Material Handling

### General Requirements - material handling

**437-004-1610 (8)(a)** “All equipment, structures, and accessories used for handling or storing materials must comply with sound engineering practices and the specifications and recommendations of the manufacturer.”

### Automotive Hoists

**437-004-1670 (2)** “Use the lifts according to the manufacturer's recommendations and those of ANSI B153.1-1990.”

### Forklifts and Other Powered Industrial Trucks

**437-004-1700 (1)(b)** “Modifications and additions that affect capacity and safe operation must have the manufacturer's prior written approval.”

### Helicopters

**437-004-1750 (17)** “Weight limit. The weight of lifted loads must not exceed the helicopter manufacturer's rating.”

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Tackle and Hoisting Equipment

**437-004-1825 (1)(a)** "Use only sheaves and drums with diameters recommended by the wire rope manufacturer for the size rope."

## Division 4/O **Equipment Guarding**

### Grinders

**437-004-2100 (4)(f)** "Do not use wheels larger than those recommended by the manufacturer."

## Division 4/P **Small Tools**

### Guarding of Portable Powered Tools

**437-004-2230 (d)(E)** "...If it still does not fire remove the explosive load according to the manufacturer's instructions."

### Other Portable Tools and Equipment

**437-004-2260 (5)(a)** "Follow all manufacturer instructions for use and maintenance of this equipment or this standard, whichever is safest."

## Division 4/Q **Welding**

### General Requirements - welding

**437-004-2310 (e)(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."

### Oxygen-Fuel Gas Welding and Cutting

**437-004-2350 (3)(e)(D)(iv)** "Follow the manufacturer's procedures for the sequence of operations in lighting, adjusting, and extinguishing blowpipe flames and connecting to the gas supply."

### Arc Welding and Cutting

**437-004-2400 (5)(c)** "Manufacturers' instructions. Follow the printed rules and instructions supplied by the manufacturer."

## Division 4/S **Electricity**

### General Requirements - electricity

**437-004-2810 (15)** "Follow manufacturer's instructions or recommendations when installing listed or labeled equipment."

### Temporary Lighting and Wiring

**437-004-2850 (9)** "Do not suspend temporary lights by their cords unless the manufacturer's instructions allow the practice."

### Division 4/U **Vehicles**

#### Training for Agriculture Tractor Operators

**437-004-3430 (1)(h)** "Hitch only to the drawbar and hitch points recommended by the tractor manufacturer."

#### Roll-Over Protective Structures

**437-004-3600 (1)** "...Add ballast as necessary to get a minimum total weight of 110 pounds (50.0 kilograms) per maximum power takeoff horsepower at the rated engine speed or the maximum gross vehicle weight specified by the manufacturer, whichever is the greatest."

### Division 4/W **Worker Protection Standard**

#### Entry Restrictions

**170.112 (c)(6)(i)** "Workers wear the personal protective equipment correctly for its intended purpose and use personal protective equipment according to manufacturer's instructions."

#### Personal Protective Equipment

**170.240 (d)(4)** "Closed systems. If handling tasks are performed using properly functioning systems that enclose the pesticide to prevent it from contacting handlers or other persons, and if such systems are used and are maintained in accordance with that manufacturer's written operating instructions, exceptions to labeling-specified personal protective equipment for the handling activity are permitted as provided in paragraphs (d)(4)(i) and (ii) of this section."

### Division 4/Z **Chemical/Toxins**

#### Fumigated Areas

**437-004-9010 (5)** "Leave the signs posted according to the instructions of the manufacturer of the fumigating chemical or until the hazard resulting from the fumigation is gone, whichever is the longer time."

### Division 7/B **Safety and Health Program**

#### Training

**437-007-0140 (3)(d)** "Safe use, operation and maintenance of tools, equipment, machines and vehicles each employee uses or operates, including following the manufacturer's operating and maintenance instructions, warnings and precautions."

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

#### Respiratory Protection When Machines are Operated

**437-007-0350 (11)** “Employees must use either the positive and negative pressure check method, or follow the respirator manufacturer's recommended user seal check method.”

### Division 7/E **Tools, Fire Extinguishers and Explosives**

#### Chain Saws

**437-007-0405 (3)** “Chain saws must be operated and adjusted in accordance with the manufacturer's instructions.”

### Division 7/F **Roads, Flagging and Vehicles**

#### Vehicle Exhaust Systems

**437-007-0545 (2)** “Vehicles must be equipped with a muffler of the type recommended by the vehicle manufacturer.”

#### Vehicle Operation

**437-007-0570 (1)** “Vehicle operators must be knowledgeable of the manufacturer's recommendations for operation, maintenance, safe work practices, and operating procedures.”

#### Flammable and Combustible Liquids

**437-007-0580 (b)** “...Not exceed the maximum quantity of fuel recommended by the manufacturer.”

### Division 7/G **Rigging and Rigging Practices**

#### Pressed Eyes and End Fittings

**437-007-0615 (5)** “The recommendations of the manufacturer must be followed in attaching sockets and similar end fastenings.”

#### Shackles

**437-007-0635 (2)** “Replacement shackle pins must meet the manufacturer's original specifications for strength and design for the size of shackle being used.”

#### Metal Spar Guyline Safety Straps

**437-007-0640 (3)** “The ends of metal spar guyline safety straps must be connected to each other, or installed per manufacturer's instructions.”

#### Chokers and Straps

**437-007-0645 (9)** “Straps made of synthetic materials must be used and replaced in accordance with the manufacturer's recommendations.”

---

## Oregon OSHA rules that refer to manufacturer's requirements

---

### Guylines - General Requirements

**437-007-0650 (2)** “Guylines used to stabilize logging machines must be at least of the size, strength and number recommended by the machine manufacturer.”

### Anchoring

**437-007-0665 (8)** “Rock bolt anchors must be installed, grouted, tested and maintained in accordance with the manufacturer's recommendations.”

## Division 7/H **Machines Used In Forest Activities**

### General Machine Operator Requirements

**437-007-0705 (2)** “Operators must be instructed about and comply with the manufacturer's recommendations for machine operation, maintenance, safe work practices, and site operating procedures.”

### Machine Exhaust Systems

**437-007-0740 (2)** “Machines must be equipped with a muffler of the type recommended by the machine manufacturer.”

### Protective Structures for Operators

**437-007-0775 (4)** “Repairs or modifications to major structural members of any operator cab, protective structure or attached guarding on machines manufactured on or after July 1, 2004, certified to performance criteria, must comply with the specific instructions of the original equipment manufacturer or be certified by a professional engineer.”

## Division 7/K **Loading and Transportation of Logs / Wood Fiber**

### Loading

**437-007-1005 (14)** “The closing line must be securely attached to the grapple in accordance with the manufacturer's recommendations.”

### Log Truck and Trailer Hitches

**437-007-1030 (2)** Hitches (couplings) having parts that are broken, cracked, worn, deformed more than 1/4-inch or are otherwise defective must be removed from service until repaired to comply with the manufacturer's specifications.

## Division 7/N **Fire Protection/Suppression and Prescribed Burning**

### Equipment, Vehicles, and Machines, General Requirements

**437-007-1330 (1)(b)** Maintained in accordance with the appropriate manufacturers' recommendations.

Division 7/P **Tree Climbing**

**Climbing Equipment General Requirements**

**437-007-1505 (2)** Splices must be made according to cordage manufacturer's recommendations.