



RULE-MAKING ORDER

CR-103P (May 2009)
(Implements RCW 34.05.360)

Agency: Department of Labor and Industries

Permanent Rule Only

Effective date of rule:

Permanent Rules

- 31 days after filing.
- Other (specify) February 1, 2013 (If less than 31 days after filing, a specific finding under RCW 34.05.380(3) is required and should be stated below)

Any other findings required by other provisions of law as precondition to adoption or effectiveness of rule?

- Yes
 - No
- If Yes, explain:

Purpose: The department filed expedited proposed rules under WSR12-12-062 addressing the following issues: extending the date by which the requirement relating to written and practical testing requirements for qualified riggers is effective; the addition of language to be at least as effective as the federal rule; and clarification of the scope of the rule to include the following existing requirements: rigging for all construction activities (WAC 296-155-556); and personnel lifting with attached or suspended platforms using cranes or derricks (WAC 296-155-547). The department received five written objections to the expedited rule process.

In consideration of the objections received and other feedback from stakeholders, this rule moves the rigging requirements for material handling equipment to a separate part under WAC 296-155 Part F-1. The rigger qualification requirements for material handling was changed to be more consistent with the previous rigger qualifications for material handling equipment, eliminating the requirement for written and practical testing for riggers to be considered qualified when conducting rigging on material handling equipment. This rule language also includes changes in the expedited rules filed for which no objections were received: extending the date by which the requirement relating to written and practical testing requirements for qualified riggers is effective under WAC 296-155 Part L; the addition of language to be at least as effective as the federal rule; and clarification of the scope of the rule to include personnel lifting with attached or suspended platforms using cranes or derricks (WAC 296-155-547).

Citation of existing rules affected by this order:

- Repealed: **See Attachment 1**
- Amended: **See Attachment 1**
- Suspended: 0

Statutory authority for adoption: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060

Other authority : Chapter 49.17 RCW, 29 CFR 1926, Subpart CC, Cranes and Derricks in Construction

PERMANENT RULE (Including Expedited Rule Making)

Adopted under notice filed as WSR 12-20-054 on October 2, 2012.
 Describe any changes other than editing from proposed to adopted version: **See Attachment 2.**

If a preliminary cost-benefit analysis was prepared under RCW 34.05.328, a final cost-benefit analysis is available by contacting:

Name: _____ phone () _____
 Address: _____ fax () _____
 e-mail _____

Date adopted:

December 31, 2012

NAME (TYPE OR PRINT)

Judy Schurke

SIGNATURE

TITLE

Director

CODE REVISER USE ONLY

OFFICE OF THE CODE REVISER
STATE OF WASHINGTON
FILED

DATE: December 31, 2012

TIME: 9:14 AM

WSR 13-02-068

**Note: If any category is left blank, it will be calculated as zero.
No descriptive text.**

**Count by whole WAC sections only, from the WAC number through the history note.
A section may be counted in more than one category.**

The number of sections adopted in order to comply with:

Federal statute:	New	_____	Amended	_____	Repealed	_____
Federal rules or standards:	New	26	Amended	25	Repealed	1
Recently enacted state statutes:	New	_____	Amended	_____	Repealed	_____

The number of sections adopted at the request of a nongovernmental entity:

New	_____	Amended	_____	Repealed	_____
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The number of sections adopted in the agency's own initiative:

New	26	Amended	25	Repealed	1
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The number of sections adopted in order to clarify, streamline, or reform agency procedures:

New	26	Amended	25	Repealed	1
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The number of sections adopted using:

Negotiated rule making:	New	_____	Amended	_____	Repealed	_____
Pilot rule making:	New	_____	Amended	_____	Repealed	_____
Other alternative rule making:	New	_____	Amended	_____	Repealed	_____

NEW SECTIONS:

Chapter 296-155 WAC, Part F-1 Rigging requirements for material handling.

- Created this new part relating to rigging requirements for material handling.

WAC 296-155-336 Rigging requirements for material handling.

- There are no requirements in this section.

WAC 296-155-33600 Scope.

- Created this section explaining what Part F-1 pertains to.

WAC 296-155-33605 Definitions.

- Added the following applicable definitions to this part: angle of loading, anti two-block device, basket hitch, below-the-hook lifting device, bird caging, braided wire rope, bridle wire rope sling, cable laid endless sling-mechanical joint, cable laid grommet-hand tucked, center of gravity, choker hitch, come-a-long, competent person, cross rod, design factor, electrical contact, fabric (metal mesh), fall zone, flange points, hitch (hitched), hoist, hoisting, hoisting equipment, hook latch, load, load ratings, master coupling link, master link, mechanical coupling link (alloy steel chain), operational controls, procedures, qualified person, qualified rigger, rated capacity, rotation resistant rope, RPE, RPSE, running wire rope, safety or health standard, section, sling, spiral, standing wire rope, two blocking, vertical hitch, wire rope, working load.

WAC 296-155-337 Rigging – general requirements.

- There are no requirements in this section.

WAC 296-155-33700 Rigger qualifications.

- Created this section outlining the qualifications for riggers who do rigging while doing material handling activities.

WAC 296-155-33705 General requirements.

- General requirements relating to all rigging are located in this section. These requirements are either in the current federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-338 Slings.

- There are no requirements in this section.

WAC 296-155-33800 Chain slings.

- Requirements relating to chain slings are located in this section. These requirements are either in the current federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-33805 Wire rope slings.

- Requirements relating to wire rope slings are located in this section. These requirements are either in the current federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-33810 Metal mesh slings.

- Requirements relating to metal mesh slings are located in this section. These requirements are either in the current federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-33815 Synthetic rope slings.

- Requirements relating to synthetic rope slings are located in this section. These requirements are either in current federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-33820 Synthetic webbing slings.

- Requirements relating to synthetic webbing slings are located in this section. These requirements are either in current federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-33825 Synthetic roundslings.

- Requirements relating to synthetic roundslings are located in this section. These requirements are either in federal rule, current state rule or are in an industry consensus standard.

WAC 296-155-339 Rigging hardware and lifting devices other than slings and rigging hardware.

- There are no requirements in this section.

WAC 296-155-33900 General requirements.

- General requirements relating to rigging hardware are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-33905 Shackles.

- Requirements relating to shackles are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-33910 Adjustable hardware.

- Requirements relating to adjustable hardware are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-33915 Compression hardware.

- Requirements relating to compression hardware are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-33920 Links, rings, and swivels.

- Requirements relating to links, rings, and swivels are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-33925 Rigging blocks.

- Requirements relating to rigging blocks are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-340 Lifting devices other than slings and rigging hardware.

- There are no requirements in this section.

WAC 296-155-34005 Structural and mechanical lifters.

- Requirements relating to structural and mechanical lifters are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-34010 Vacuum lifters.

- Requirements relating to vacuum lifters are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-34015 Close proximity lifting magnets.

- Requirements relating to close proximity lifting magnets are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-34020 Remotely operated lifting magnets.

- Requirements relating to remotely operated lifting magnets are located in this section. These requirements came from an industry consensus standard.

WAC 296-155-34025 Scrap and material handling grapples.

- Requirements relating to scrap and material handling grapples are located in this section. These requirements came from an industry consensus standard.

AMENDED SECTIONS:

Chapter 296-155 WAC, Part F Material Handling, storage, use and disposal.

- Removed the words “material handling” from the title of this part.

WAC 296-155-529 Crane certifier accreditation and crane certification.

- Changed the title of this section to Scope and definitions. The crane certifier accreditation starts with WAC 296-155-531.

WAC 296-155-52900 Scope.

- Reformatted this section by breaking out the information and creating new subsections. The first section, subsection (3) provides a list of equipment being exempted from the crane certifier accreditation and operator qualifications and certification portion of the rule. Created a subsection (4) that provides a list of equipment that would be exempted from Part L of this chapter.
 - The equipment exempted from the certifier accreditation and operator qualifications:
 - Cranes having a maximum capacity of one ton or less.
 - Powered industrial trucks (forklifts) when configured to hoist and lower (by means of a winch or hook) and horizontally move a suspended load.
 - Service cranes with booms that rotate manually.
 - The equipment exempted from Part L of this chapter:
 - Equipment included in subsection (1) of this section while it has been converted or adapted for nonhoisting/lifting use. Such conversions/adaptations include, but are not limited to, power shovels, excavators and concrete pumps.
 - Power shovels, excavators, wheel loaders, backhoes, loader backhoes, track loaders.
 - Automotive wreckers and tow trucks when used to clear wrecks and haul vehicles.
 - Equipment originally designed as vehicle-mounted aerial devices (for lifting personnel) and self-propelled elevating work platforms.
 - Hydraulic jacking systems, including telescopic/hydraulic gantries.
 - Stacker cranes.
 - Mechanic's truck with a hoisting device when used in activities related to equipment maintenance and repair.
 - Equipment that hoists by using a come-a-long or chainfall.
 - Dedicated drilling rigs.
 - Gin poles used for the erection of communication towers.
 - Tree trimming and tree removal work.
 - Anchor handling or dredge-related operations with a vessel or barge using an affixed A-frame.
 - Roustabouts.
 - Machines equipped with a boom that is limited to up and down movement only and does not rotate.
 - Conveyors.
 - Pump hoists with booms that do not rotate.
 - Cranes and their operators used on-site in manufacturing facilities or powerhouses for occasional or routine maintenance and repair work.
 - Helicopter cranes.
 - Permanently installed overhead/bridge, gantry cranes, semi-gantry, cantilever gantry, wall cranes, storage bridge cranes, and others having the same fundamental characteristics.
 - Digger derricks when used for activities that are covered under chapter 296-45 WAC, Safety standards for electrical workers, or chapter 296-32 WAC, Safety standards for telecommunications. Cranes other than digger derricks when used for activities that are covered under chapter 296-45 WAC, Safety standards for electrical workers, or chapter 296-32 WAC, Safety standards for telecommunications, are NOT exempt.
 - Powered industrial trucks (forklifts) except when configured to hoist and lower (by means of a winch or hook) and horizontally move a suspended load.
- Added a note for clarity that reads, "Rigging requirements for material handling is located in Part F-1 of this chapter".

- In subsection (1), added the words “the following”. The first sentence reads, “Except as provided in subsection (3) of this section, this part applies to the following:”.
- Created a new subsection (1)(b) for clarity. It reads, “Personnel lifting with attached or suspended platforms using cranes or derricks (WAC 296-155-547).”
- Renumbered subsections (5) through (8).

WAC 296-155-52902 Definitions.

- In the definition of “attachments” changed the word “means” to “mean” and “or” to “of” to match the federal equivalent. It reads, “Attachments mean any device that expands the range of tasks that can be done by the crane/derrick. Examples include, but are not limited to: An auger, drill, magnet, pile-driver, and boom-attached personnel platform”.
- Added a definition for “Jib stop” to match the federal equivalent. It reads, “Jib stop (also referred to as a jib backstop), is the same type of device as a boom stop but is for a fixed or luffing jib”.
- Deleted the last sentence in the definition of “mobile cranes”. The federal definition had this sentence in their proposed rule but did not in their adopted rule. The sentence removed reads, “These are referred to in Europe as a crane mounted on a truck carrier”.

WAC 296-155-53300 Operator qualifications and certification.

- In the note after Table 3, added the words “covered under this part” for clarity. It reads, “Cranes and other lifting machines covered under this part that are exempt can be found in WAC 296-155-52900(3)”.

WAC 296-155-53306 Rigger qualifications.

- In subsection (1), clarified the language for consistency. It reads, “The rigger must meet the qualification requirements (subsection (3) of this section) prior to performing hoisting activities for assembly and disassembly work (WAC 296-155-53402(19)(a)). A qualified rigger is required whenever employees are engaged in hooking, unhooking, or guiding the load, or in the initial connection of a load to a component or structure, and are within the fall zone (WAC 296-155-53400(43)(c)). This requirement must be met by using either Option (1) or Option (2)”.
- In subsection (3)(g), modified the note to allow an additional 180 days for employers to come into compliance with the requirement relating to having qualified riggers pass a written and practical test. It reads, “The provisions of subsection (3)(g) of this section are not required until February 1, 2013”.
- Added a new note for clarity. It reads, “This section does not require that each and every worker associated with the rigging of a component or structure to be a “fully qualified rigger” as defined in this section, the requirement is for at least one of the workers to be a fully qualified rigger. However, all other associated workers must be qualified by training or experience to perform their assigned tasks (WAC 296-155-035(2))”.

WAC 296-155-53400 General requirements.

- In subsection (1), added the words “covered under this part”. It reads, “All cranes and derricks covered under this part, except for those exempted in WAC 296-155-52900(3), must be certified annually by an accredited certifier recognized by the department, for detailed information about this certification see WAC 296-155-532”.
- In subsection (2), added the words “covered under this part”. It reads, “All crane and derrick operators covered under this part, except for those exempted in WAC 296-155-52900(3), must be qualified as required by WAC 296-155-533”.
- In subsection (4)(a), replaced the word “provide” with the words “develop and ensure compliance with” to match the federal equivalent. It reads, “Where the manufacturer procedures are unavailable, the employer must develop and ensure compliance with all procedures necessary for the safe operation of the crane/derrick and attachments”.
- In subsection (29), replaced the language to match the federal equivalent. It reads,

“(a) Load hooks (including latched and unlatched types), ball assemblies and load blocks must be of sufficient weight to overhaul the line from the highest hook position for boom or boom and jib lengths and the number of parts of the line in use.

(b) Crane hooks must be equipped with latches or self-locking devices unless a qualified person determines that it is safer to hoist and place the load without latches (or with latches removed/tied back or otherwise disabled) and routes for the loads are pre-planned to ensure that no employee is required to work in the fall zone except for employees necessary for the hooking or unhooking of the load.

(c) The latch or self-locking device (when used) must bridge the throat opening of the hook for the purpose of retaining slings or other lifting devices under slack conditions”.

- In subsection (43)(a), added the words “to the extent consistent with public safety” to match the federal equivalent. It reads, “Where available, hoisting routes that minimize the exposure of employees to hoisted loads must be used to the extent consistent with public safety”.
- In subsection (43)(c)(ii), added a reference to subsection (29)(b).
- In subsection (54)(d), added language to match the federal equivalent. It reads, “If the competent person determines that there is slack rope condition requiring re-spooling of the rope, it must be verified (before starting the lift) that the rope is seated on the drum and in the sheaves as the slack is removed”.
- In subsection (61), added language to match the federal equivalent. It reads, “Except for proof load testing required under WAC 296-155-53202 through 296-155-53212, no crane/derrick is permitted to be loaded beyond the specifications of the load rating chart, unless authorized by the crane manufacturer. The operator must not be required to operate the crane/derrick in a manner that would violate this requirement”.
- Added a new subsection (64) to match the federal equivalent. It reads, “The brakes must be adjusted in accordance with manufacturer procedures to prevent unintended movement”.
- Renumbered the remaining subsections.

WAC 296-155-53402 Assembly/disassembly.

- After subsection (1)(b), added a note to match the federal equivalent. It reads, “Note: The employer must follow manufacturer procedures when an employer uses synthetic slings during assembly or disassembly of cranes/derricks, see subsection (19) of this section”.
- In subsection (18)(b), added language relating to locomotive cranes to match the federal equivalent. It reads, “The outriggers must be set to remove the crane weight from the wheels, except for locomotive cranes (see subsection (18)(f) of this section for use of outriggers or locomotive cranes)”.
- Added a subsection (18)(f) relating to locomotive cranes to match the federal equivalent. It reads, “For locomotive cranes, when using outriggers or stabilizers to handle loads, the manufacturer’s procedures must be followed. When lifting loads without using outriggers or stabilizers, the manufacturer’s procedures must be met regarding truck wedges or screws”.

WAC 296-155-53403 Fall protection.

- In subsection (2)(b), added language relating to boom walkways to match the federal equivalent. It reads, “Boom walkway criteria. The walkways must be at least twelve inches wide”.
- In subsection (3)(b), added the word “derricks” for consistency.
- After subsection (5)(b), added a note for clarity. It reads, “Note: If the equipment is running and the employee is at or near the draw-works, precautions should be taken to ensure the fall protection gear will not become entangled”.
- After subsection (6), added a note for clarity. It reads, “Note: If the equipment is running and the employee is at or near the draw-works, precautions should be taken to ensure the fall protection gear will not become entangled”.

- After subsection (9)(a), added a note for clarity. It reads, “Note: If the equipment is running and the employee is at or near the draw-works, precautions should be taken to ensure the fall protection gear will not become entangled”.

WAC 296-155-53404 Wire rope.

- In subsection (2)(c), updated a reference.

WAC 296-155-53406 Signals.

- After subsection (3)(a), added a reference to the hand signal chart located in the appendices of this part. It reads, “See WAC 296-155-56400 for the hand signal chart”.

WAC 296-155-53408 Power line safety.

- In subsection (1)(b)(iii)(A)(IV), added a note that defines what a dedicated spotter is. Copied this definition from WAC 296-155-52902, it reads, “Note: To be considered a dedicated spotter, the requirements of WAC 296-155-53302 (signal person qualifications) must be met and his/her sole responsibility is to watch the separation between the power line and; the equipment, the load line and load (including rigging and lifting accessories), and ensure through communication with the operator that the applicable minimum approach distance is not breached”.
- In subsection (2)(b)(iv)(B)(IV), added a note that defines what a dedicated spotter is. Copied this definition from WAC 296-155-52902, it reads, “Note: To be considered a dedicated spotter, the requirements of WAC 296-155-53302 (signal person qualifications) must be met and his/her sole responsibility is to watch the separation between the power line and; the equipment, the load line and load (including rigging and lifting accessories), and ensure through communication with the operator that the applicable minimum approach distance is not breached”.
- In subsection (2)(d)(ii)(D), corrected a reference.
- In subsection (4), bolded the word “all”.
- In subsection (4)(d)(i), added the language “but are not limited to” to match the federal equivalent. It reads, “The power line owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution determines the minimum clearance distance that must be maintained to prevent electrical contact in light of the on-site conditions. The factors that must be considered in making this determination include, but are not limited to: Conditions affecting atmospheric conductivity; time necessary to bring the crane/derrick, load line and load (including rigging and lifting accessories) to a complete stop; wind conditions; degree of sway in the power line; lighting conditions, and other conditions affecting the ability to prevent electrical contact”.
- In subsection (4)(e)(ii)(A), added the language “but are not limited to” to match the federal equivalent. It reads, “Be equipped with a visual aid to assist in identifying the minimum clearance distance. Examples of a visual aid include, but are not limited to: A clearly visible line painted on the ground; a clearly visible line on stanchions; a set of clearly visible line-of-sight landmarks (such as a fence post behind the dedicated spotter and a building corner ahead of the dedicated spotter)”.
- In subsection (4)(e)(ii)(d), added a note that defines what a dedicated spotter is. Copied this definition from WAC 296-155-52902, it reads, “Note: To be considered a dedicated spotter, the requirements of WAC 296-155-53302 (signal person qualifications) must be met and his/her sole responsibility is to watch the separation between the power line and; the equipment, the load line and load (including rigging and lifting accessories), and ensure through communication with the operator that the applicable minimum approach distance is not breached”.

WAC 296-155-53409 Training.

- In subsection (1)(d)(iii), added the words “covered under this part” and update a reference. It reads, “For operators using equipment covered under this part that are exempt in WAC 296-155-52900(3)(b), the

employer must ensure that each operator is trained on the safe operation of the equipment the operator will be using”.

- Added a new subsection (1)(e) to match the federal equivalent and renumber. It reads, “(e) The employer must train each operator of the equipment covered by this part in the following practices:
 - (i) On friction equipment, whenever moving a boom off a support, first raise the boom a short distance (sufficient to take the load of the boom) to determine if the boom hoist brake needs to be adjusted. On other types of equipment with a boom, the same practice is applicable, except that typically there is no means of adjusting the brake; if the brake does not hold, a repair is necessary. See WAC 296-155-53400(68) and (69).
 - (ii) Where available, the manufacturer’s emergency procedures for halting unintended equipment movement”.
- Added a new subsection (2)(c) to match the federal equivalent. It reads, “Whenever the employer is required to provide training under this part, the employer must provide the training at no cost to the employee”.

WAC 296-155-54200 Overhead/bridge and gantry cranes—general.

- In subsection (2), removed the words “in a manufacturing facility or a powerhouse” to be consistent with the federal equivalent. It reads, “Overhead and gantry cranes that are not permanently installed must follow the applicable requirements in chapter 296-155 WAC Part L”.

WAC 296-155-54410 Sideboom cranes.

- In subsection (1), updated a reference.

WAC 296-155-55110 Proof load test platforms and rigging.

- In subsection (1)(a)(ii), added the words “by controlled load lowering, braked,” to match the federal equivalent. It reads, “The platform must be lowered by controlled load lowering, braked, and held in a suspended position for a minimum of five minutes with the test load evenly distributed on the platform”.

WAC 296-155-55115 Trial lift.

- In subsection (6)(a), added the words “with the personnel and materials/tools on board” to match the federal equivalent. It reads, “The platform must be hoisted a few inches with the personnel and materials/tools on board and inspected by a competent person to ensure that it is secure and properly balanced”.

WAC 296-155-55210 Crane or derrick operation requirements for personnel lifting.

- In subsection (1)(f), added the word “cautious” to match the federal equivalent. It reads, “Perform all movements of the platform or crane/derrick in a slow, controlled, cautious manner to minimize sudden movement of the platform;”.
- In subsection (1)(j)(ii), replaced the word “or” with “and must be” to match the federal equivalent. It reads, “The crane/derrick operator must be at a set of crane controls that include boom and swing functions of the crane, and must be on-site and in view of the crane/derrick and platform”.

WAC 296-155-55300 Personnel lifting requirements.

- In subsection (2), added the words “sustained or gusts” to match the federal equivalent. It reads, “Personnel platforms cannot be used in winds (sustained or gusts) in excess of twenty mph (32.2 km/hr) or in electric storms, snow, ice, sleet, or other adverse weather conditions which could affect the safety of personnel”.

WAC 296-155-556 Rigging – general requirements.

- Deleted the words “The rigging requirements in this part apply to all construction activities”.

WAC 296-155-55600 General requirements.

- In subsection (1), added clarifying language for consistency. It reads, “Employers must use at least one qualified rigger as follows:”.

CR-103 RULE-MAKING ORDER (RCW 34.05.360)

Department of Labor and Industries

Division of Occupational Safety and Health

Hearing Dates: November 8, 13, and 14, 2012

CR-103 Filing Date: December 31, 2012

Attachment (1)

(Purpose Statement)

- In subsection (1)(a), removed the words “additionally, qualified riggers are required”.
- In subsection (1)(b), added clarifying language and a note for consistency. It reads, “Whenever employees are engaged in hooking, unhooking, or guiding a load, or in the initial connection of a load to a component or structure, and are within the fall zone (WAC 296-155-53400(43)(c)”. The note reads, “Note: See qualified rigger requirements located in WAC 296-155-53306”.
- Created a new subsection (9) and add language to match the federal equivalent and renumber. It reads, “Special custom design grabs, hooks, clamps, or other lifting accessories, for such units as modular panels, prefabricated structures and similar materials, must be marked to indicate the safe working loads and must be proof tested prior to use to one hundred and twenty-five percent of their rated load”.
- Created a new subsection (12) and add language to match the federal equivalent. It reads, “All rigging hardware must have permanently affixed and legible identification markings as prescribed by the manufacturer that indicate the recommended safe working load”.
- Renumbered the subsections in this section.

WAC 296-155-55805 Wire rope slings.

- In subsection (8), created a new subsection (8)(d) and add language to match the federal equivalent and renumber. It reads, “Protruding ends of strands in splices on slings and bridles must be covered or blunted”.
- In subsection (8), create a new subsection (8)(e) and add language to match the federal equivalent and renumber. It reads, “A sling must not be pulled from under a load when the load is resting on the sling”.

WAC 296-155-55820 Synthetic webbing slings.

- In subsection (6)(a), created a new subsection (6)(a)(vi) and add language to match the federal equivalent and renumber. It reads, “Fittings must be of a minimum breaking strength equal to that of the sling”.
- In subsection (6), created a new subsection (6)(b) and add language to match the federal equivalent and renumber. It reads, “Webbing. Synthetic webbing must be of uniform thickness and width and selvage edges must not be split from the webbing’s width”.

WAC 296-155-56100 General requirements.

- In subsection (3)(c), added the words “at least one of the workers” for clarity. It reads, “At least one of the workers using rigging hardware must meet the requirements of WAC 296-155-53306”.

WAC 296-155-56400 Mobile crane hand signal chart.

- Deleted the illustration in this section and added the following language, “See ASME B30.5 – 2011, Standard hand signals for controlling crane operations”.

WAC 296-155-704 Hoisting and rigging.

- In subsection (3)(b), added language for clarity. It reads, “A qualified rigger (when a crane/derrick is being used as the hoisting machinery) is a rigger that meets the requirements in WAC 296-155-53306 and all rigging gear must be inspected prior to each shift in accordance with WAC 296-155-556 through 296-155-56220. A qualified rigger (when hoisting machinery other than a crane/derrick is being used) must meet the requirements in WAC 296-155-33700 and all rigging gear must be inspected prior to each shift in accordance with WAC 296-155-337 through 296-155-34025”.

REPEALED SECTION:**WAC 296-155-329 Qualified person – rigging.**

Changes other than editing from proposed to adopted version

Describe any changes other than editing from proposed to adopted version:

As a result of written and oral comments received or for clarification purposes, the following sections are being changed as indicated below:

CHANGES TO THE RULES (Proposed rule versus rule actually adopted):

WAC 296-155-33805 Wire rope slings.

- Subsection (8)(e): Added a parenthesis after the words “Figure 8”. It now reads, “Decrease the rated load of the sling when D/d ratios (Figure 8) smaller than twenty-five to one. Consult the sling manufacturer for specific data or refer to the Wire Rope Sling User’s manual (wire rope technical board).”

WAC 296-155-33815 Synthetic rope slings.

- Subsection (5)(e): In Figure 13, corrected a reference to another figure. It now reads, “The symbols below represent load or support in contact with the rope sling. The contact surface diameter divided by the rope diameter is designated D/d ratio as described in Figure 8.”

WAC 296-155-52900 Scope.

- Subsection (1)(a): Added the word “/bridge” after the word overhead”. It now reads, “Power-operated cranes and derricks used in construction that can hoist, lower and horizontally move a suspended load (with or without attachments). Such equipment includes, but is not limited to: Articulating boom cranes (such as knuckle-boom cranes); crawler cranes; floating cranes; cranes on barges; locomotive cranes; mobile cranes (such as wheel-mounted, rough-terrain, all-terrain, commercial truck-mounted, and boom truck cranes); multipurpose machines when configured to hoist and lower (by means of a winch or hook) and horizontally move a suspended load; industrial cranes (such as carry-deck cranes); cranes being used as dedicated pile drivers; service/mechanic trucks with a hoisting device; a crane on a monorail; tower cranes (such as fixed jib (“hammerhead boom”), luffing boom and self-erecting); pedestal cranes; portal cranes; overhead/bridge and gantry cranes; straddle cranes; side-boom tractors; derricks; and variations of such equipment; and...”
- Subsection (3)(d): Deleted subdivision (d) to be at least as effective as OSHA which stated, “Overhead/bridge, gantry cranes, semi-gantry, cantilever gantry, wall cranes, storage bridge cranes, launching gantry cranes, and similar equipment having the same fundamental characteristics, irrespective of whether it travels on tracks, wheels, or other means, when performing construction activities and not permanently installed”.

WAC 296-155-53402 Assembly/disassembly.

- Subsection (18)(e): Corrected a reference. It now reads, “Meet the requirements in subsection (10)(b) and (c) of this section.”

WAC 296-155-55600 General requirements.

- Subsection (1)(b): Added the words “of this part” at the end of the note. It now reads, “Note: See qualified rigger requirements located in WAC 296-155-53306 of this part.”

WAC 296-155-56400 Mobile crane hand signal chart.

- Added an updated mobile crane hand signal chart. Deleted the language referencing ASME B-30.5-2011.

Changes other than editing from proposed to adopted version

WAC 296-155-704 Hoisting and rigging.

- Subsection (1): Added clarifying language. It now reads, “All the applicable provisions of Part L of this chapter apply to hoisting and rigging while using a crane/derrick. All applicable provisions of Part F-1 of this chapter apply to material handling hoisting equipment when a crane/derrick is not being used”.
- Subsection (3)(b): Modified the language. It now reads, “A qualified rigger (a rigger who is also a qualified person) must inspect the rigging prior to each shift”.