

WAC 296-155-53414 Cranes/derricks with a rated hoisting/lifting capacity of 2,000 pounds or less. For cranes/derricks with a maximum manufacturer-rated hoisting/lifting capacity of 2,000 pounds or less:

(1) The following sections apply: WAC 296-155-52900, Scope; WAC 296-155-52902, Definitions; WAC 296-155-53400 (34), (36) through (38), (45), (46), (59) and (67), General requirements; WAC 296-155-53404, Wire rope; WAC 296-155-53406, Signals; WAC 296-155-53408, Power line safety; WAC 296-155-53700(7), Mobile cranes—General; WAC 296-155-53715(5), Mobile cranes—Operations; WAC 296-155-539, Tower cranes; WAC 296-155-542, Overhead/bridge and gantry cranes; WAC 296-155-543, Derricks.

Note to subsection (1) of this section: Under subsection (2)(a) of this section, WAC 296-155-53402, (Assembly/disassembly) also apply.

(2) Assembly/disassembly.

(a) WAC 296-155-53402 (Assembly/disassembly) applies.

(b) **Components and configuration.** You must ensure that:

(i) The selection of components and the configuration of the crane/derrick which affects the capacity or safe operation of the crane/derrick complies with either the:

(A) Manufacturer instructions, recommendations, limitations, and specifications. When these documents and information are unavailable, a registered professional engineer familiar with the type of crane/derrick involved must approve, in writing, the selection and configuration of components; or

(B) Approved modifications that meet the requirements of WAC 296-155-53400 (58) and (59).

(ii) Post-assembly inspection. Upon completion of assembly, the crane/derrick is inspected to ensure that it is in compliance with subsection (2)(b)(i) of this section.

(c) **Manufacturer prohibitions.** You must comply with applicable manufacturer prohibitions.

(3) **Operation - Procedures.**

(a) You must comply with all manufacturer procedures applicable to the operational functions of the crane/derrick, including its use with attachments.

(b) **Unavailable operation procedures.** You must:

(i) 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.

(ii) Ensure that procedures for the operational controls are developed by a qualified person.

(iii) Ensure that procedures related to the capacity of the crane/derrick are developed and signed by a registered professional engineer.

(c) **Accessibility.** You must ensure that:

(i) The load chart must be available to the operator at the control station.

(ii) Procedures applicable to the operation of the crane/derrick, recommended operating speeds, special hazard warnings, instructions and operator's manual, are readily available for use by the operator.

(iii) Where rated capacities are available at the control station only in electronic form and failure occurs that makes the rated capacities inaccessible, the operator must immediately cease operations or follow safe shut-down procedures until the rated capacities (in electronic or other form) are available.

(4) Safety devices and operational aids.

(a) You must ensure that safety devices and operational aids that are part of the original equipment are maintained in accordance with manufacturer procedures.

(b) **Anti two-blocking.** You must ensure that cranes covered by this section manufactured after the effective date of this standard must have either an anti two-block device that meets the requirements of WAC 296-155-53412 (3)(d), or is designed so that, in the event of a two-block situation, no damage or load failure will occur (for example, by using a power unit that stalls in response to a two-block situation).

(5) **Operator qualifications.** You must train each operator, ensure that, prior to operating the crane/derrick, the operator is trained on the safe operation of the type of crane/derrick the operator will be using.

(6) **Signal person qualifications.** You must train each signal person, in the proper use of signals applicable to the use of the crane/derrick.

(7) **Keeping clear of the load.** WAC 296-155-53400(43) applies, except for WAC 296-155-53400 (43)(c)(iii) (qualified rigger).

(8) **Inspections.** You must ensure that the crane/derrick is inspected in accordance with manufacturer procedures.

(9) **Hoisting personnel.** You must ensure that equipment covered by this section is not used to hoist personnel.

(10) **Design.** You must ensure that the crane/derrick is designed by a qualified engineer.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 16-09-085, § 296-155-53414, filed 4/19/16, effective 5/20/16. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.440, 49.17.060, and 29 C.F.R. 1926, Subpart CC. WSR 12-01-086, § 296-155-53414, filed 12/20/11, effective 2/1/12.]