

**WAC 296-155-53700 Mobile cranes—General.** (1) All mobile

cranes/equipment (greater than 2,000 pounds capacity) in use must meet the applicable requirements for design, construction, testing, inspection, maintenance, and operation as prescribed in the ASME B30.5-2021, Safety Standard for Mobile and Locomotive Cranes. It is not the intent of this rule to require retrofitting of existing cranes. However, when an item is being modified, its performance needs to be reviewed by a qualified person and compared to the applicable sections of this rule. For modification requirements see WAC 296-155-53400 (57) and (58). For cranes/equipment manufactured prior to the effective date of this rule, the design, construction, and testing criteria must meet, at a minimum, to the ASME B30.5 standard in effect the year of manufacture.

(2) Mobile cranes must have boom stops to provide resistance from backward overturning. Such as:

- A fixed or telescoping bumper;
- A shock absorbing bumper;
- Hydraulic boom elevation cylinder(s).

(3) Restraints must be provided that will keep the jibs from backward overturning.

(4) Boom angle or radius indicators readable from the operator's station must be provided.

(5) A means must be provided that automatically stops the hoisting of the boom when the boom reaches a predetermined high angle. This can be either:

- A boom hoist disconnect;
- A shutoff; or
- Hydraulic relief.

(6) A boom length indicator that is readable from the operator's station must be provided for telescopic booms, unless the load rating is independent of the boom length.

(7) Where the ground is soft or uneven, timber, planking, or other suitable material to provide firm foundation and distribute the load must be used.

(8) All welding procedures and welding operator qualifications must be in accordance with ANSI/AWS D14.3 when welding is to be performed on load-sustaining members.

(9) Prior to the crane performing work, all wiring supplying electrically-operated cranes must be inspected and approved by the department's electrical program, or by a city inspection jurisdiction if located in a city that performs electrical inspections.

**Notes:**

- Department permitting applications, fees, and procedures are available on the web at [www.Lni.wa.gov/tradeslicensing/electrical/](http://www.Lni.wa.gov/tradeslicensing/electrical/).
- For information regarding crane installation and permits in cities that administer the electrical code, visit: [www.Lni.wa.gov/CityInspectors](http://www.Lni.wa.gov/CityInspectors).

(10) All electrically-powered cranes must be listed, labeled, or field evaluated by an accredited electrical product testing laboratory before being placed in service on-site.

**Notes:**

- For a list of accredited electrical product testing laboratories visit: [www.Lni.wa.gov/TradesLicensing/Electrical/Install/ProdTest/](http://www.Lni.wa.gov/TradesLicensing/Electrical/Install/ProdTest/).
- For requirements for electrical inspection and third-party evaluation and labeling of all electrical equipment on all tower cranes operating anywhere in the state, see: Tower crane electrical safety requirements; RCW 19.28.010 Electricians and electrical installations; WAC 296-46B-901(7), Electrical safety standards, administration, and installation regulations; and WAC 296-155-444(1), Safety standards for construction work.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 25-16-089, s 296-155-53700, filed 8/5/25, effective 9/5/25. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 16-09-085, § 296-155-53700, 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, § 296-155-53700, filed 12/20/11, effective 2/1/12.]