

# Rigging Safety

## Construction Rigging Requirements



Material handling presents many hazards on the construction job site. In particular, an incorrectly rigged load can lead to falling material, property damage and equipment failure or tip over.

WAC 296-155, Safety Standards for Construction Work, provides requirements for ensuring a properly qualified rigger is rigging and attaching any loads to the hook. Part L covers cranes, derricks, and multi-purpose machines such as telescopic forklifts when they are configured to move a suspended load. Part F-1 covers all other types of material handling equipment used in construction.

The following table (on the back page) and questions are designed to help determine which rule a task would fall under, and what requirements need to be met within that rule.

**My riggers who will be working with cranes have just come back from their training, which consisted of a video and a multiple choice test. Does this meet the requirements for qualified crane rigger?**

No. A qualified crane rigger requires a documented written exam AND a practical examination. Having taken only one or having documented one or the other is not sufficient to be a qualified crane rigger.

**May an employer deem someone a qualified rigger under Part F-1, if that person has earned qualified crane rigger status under the requirements of Part L?**

Not necessarily. An employer must ensure that the person is qualified, through training and experience for the type of work to be done. This may or may not be the same type of rigging work as was done under the Part L crane qualification.

### For More Information

Contact Consultation Services:

- Northwest Washington 425-290-1369
- King County 206-835-1065
- Pierce County/ Olympic Peninsula 253-596-3917
- Southwest Washington 360-575-6951
- Central Washington 509-886-6570
- Eastern Washington 509-886-6570

On the Web: [www.Lni.wa.gov/SafetyTopics](http://www.Lni.wa.gov/SafetyTopics).



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Washington State Department of  
**Labor & Industries**

## WAC 296-155 Part F-1 Material Handling and Part L Cranes and Derricks

Title	Part	Description
Equipment Covered	F-1	Material handling equipment, such as chain falls, non-telescoping forklifts, excavators and backhoes, when used in construction. See WAC 296-155-33600.
	L	Cranes and derricks in construction. See WAC 296-155-52900. Also telescoping powered industrial trucks when configured to move a suspended load.
Definition of "Qualified Rigger"	F-1	Deemed by the Employer to be a "qualified person" (by possession of a degree or certificate, or by extensive knowledge, training or experience) AND a "competent person" (who has authority to act) AND knowledgeable in qualification requirements. See WAC 296-155-33700.
	L	Must have a Qualified Evaluator assess and provide documentation showing that the qualification requirements are met. A 3rd Party Evaluator's assessment IS transferable. An Employer Evaluator's assessment is NOT transferable. See WAC 296-155-53306.
When is a "Qualified Rigger" Required	F-1	All rigging activities covered under Part F-1 must be performed by a qualified rigger or performed under the direction and supervision of a qualified rigger. See WAC 296-155-33705 (1).
	L	At least one documented, 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. All other associated workers must be qualified by training or experience to perform their assigned tasks per WAC 296-155-035(2). See WAC 296-155-53306 (1) and (3)(g) note.
Rigging Qualification Requirements	F-1	<ul style="list-style-type: none"> <li>■ Know and understand the requirements for slings, rigging hardware, and below-the-hook lifting devices, including their limitations, rigging practices, associated hazards, and inspection requirements.</li> <li>■ Know and understand the application of the type of hitches used.</li> <li>■ Know and understand load weight estimation, center of gravity, effect of angle on rigging components, and load turning.</li> </ul> See WAC 296-155-33700.
	L	<ul style="list-style-type: none"> <li>■ Know and understand the requirements of applicable ASME standards.</li> <li>■ Know and understand rigging selection and capacity ratings.</li> <li>■ Know and understand the type of sling and hitch used.</li> <li>■ Competent in the application of the type of hitches used.</li> <li>■ Basic understanding of crane operation.               <ul style="list-style-type: none"> <li>– Know and understand rigging related conditions, such as load weight estimation, center of gravity, effect of angles on rigging components and basic hand signals, as applicable.</li> </ul> </li> </ul> See WAC 296-155-53306 (3).
Documentation and Renewal Dates	F-1	Documentation of training not required. No renewal date specified.
	L	<ul style="list-style-type: none"> <li>■ Demonstrate through a written test and a practical test. Documents must be available on site.</li> <li>■ Must be renewed every 5 years. At a minimum, renewal must include a documented written exam.</li> </ul> See WAC 296-155-53306 (3)(g) and (4).

For more information, visit [www.Lni.wa.gov/SafetyTopics](http://www.Lni.wa.gov/SafetyTopics) and type Rigging in the search box.

### We can help

**Employers:** We offer workplace safety and health consultations, risk management assessments, training and technical assistance at no cost. For more information, go to [www.Lni.wa.gov/SafetyConsultants](http://www.Lni.wa.gov/SafetyConsultants).

**Employee/employee representatives:** You may file a formal complaint when you believe a safety or health hazard exists in your workplace.

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