

## API RP 2D Qualified Rigger Training (16-hour)

<b>Duration</b>	2 days
<b>Target group</b>	Personnel who have had little or no training and/or experience in rigging and lifting operations and wish to gain an introductory certificate in rigging and lifting operations
<b>Prerequisites</b>	None
<b>Objective</b>	<p>Upon the completion of this course, candidates will be able to:</p> <p>Knowledge Objectives:</p> <p>Rigging Hardware</p> <ul style="list-style-type: none"> <li>- Identify of types and application of rigging hardware to include: blocks; sheaves; hooks/latches; rings, links, swivels; shackles; turnbuckles; spreader and equalizer beams; cable clips; pad eyes; eyebolts; and wedge sockets/termination</li> <li>- Describe the application of each piece of rigging hardware.</li> <li>- Describe inspection points, how to inspect, and criteria for removal of each piece of rigging hardware.</li> <li>- Describe and explain safe and unsafe conditions for usage</li> <li>- Describe the purpose and proper use of different types/variations of basic rigging hardware under discussion</li> <li>- Describe rigging hardware working load limit (WLL) rating where applicable</li> <li>- Describe how to properly maintain hardware</li> <li>- Describe safe and proper storage techniques/practices for each piece of rigging hardware</li> </ul> <p>Slings:</p> <ul style="list-style-type: none"> <li>-Identify of types and application of slings and material to include: wire rope; synthetic; chain; and two-, three-, and four-leg bridle</li> <li>- Describe sling application (configuration and function); inspection/rejection criteria; angle and load tension; handling and storage</li> <li>- Describe D/d ratio</li> <li>- Identify cargo nets and other basket types (e.g. bulk bags/flexible fabric)</li> <li>- Describe function, applications, and safety precautions of hitches (vertical, choker, basket)</li> <li>- Describe configurations to include different types of hitches (vertical, choker, basket)</li> <li>- Describe when to use and how to use</li> <li>- Describe the effect of the sling load at different sling angles</li> <li>- Describe safe and proper storage techniques/practices for all rigging hardware</li> </ul> <p>Procedures and Precautions:</p> <ul style="list-style-type: none"> <li>- Describe load control/taglines</li> <li>- Describe the procedures and inspection for each type of personnel transfer equipment.</li> <li>- Identify unbinding loads</li> <li>- Understand personnel transfer/pre-lift considerations</li> <li>- Describe sling handling and storage</li> <li>- Determining load weights and center of gravity of load</li> </ul>

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- Identify softeners (e.g. wear pads)
  - Understand attaching unused sling legs
  - Understand how to improve sling efficiency
  - Describe turning, securing, and placement of loads

#### Rigging Basics

- Identify pinch points/body positions.
- Identify personal protective equipment (PPE)
- Understand proper hand signals/radio communications

#### Performance Objectives:

- Demonstrate pre-lift rigging hardware and sling inspections (wire rope slings, synthetic slings, shackle, hook, load block, chain fall, come-along, and lift points)
- Demonstrate different types of rigging hitches (vertical, basket, choker, 2/4 part >60)
- Demonstrate use of proper hand signals

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### Contents

This 2 day (16 hours) course will cover the following topics:

- Rigging Hardware
- Slings
- Procedures and Precautions
- Rigging Basics

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### Exam

Delegate necessary skills shall be evaluated through written, practical, and oral assessment. For successful completion, delegates must attain a minimum satisfactory score of 75% on a closed-book written assessment and 100% on all practical assessments in accordance with the latest edition of the API RP 2D standard.