



Rigging Safety – 4 Hour

(API RP 2D Sixth Edition)
Course Outline

Administrative office: 1210 Import Dr. New Iberia, LA 70560

Main: 337-451-4685 Fax: 337-359-4478

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**Prerequisites:** This course shall have no formal pre-requisite. The individual should have no history of a disabling medical condition, which may be sufficient reason for disqualification.

**Course Length:** 4 hours – Course length shall vary depending on the number of delegates. Total course time includes breaks.

Class Size: The maximum number of delegates that may be trained and tested per instructor shall be twenty four (24) in the classroom session and twenty (20) in the practical session. A second instructor shall be added for the practical session once the participation exceeds twenty (20) and exercises will be divided into groups.

### **Course Objective**

- Provide delegates assigned to rigging duties the necessary skills to safely perform their jobs.
- Provide delegates with recommended practices and guidelines to perform safely while working with cranes.
- Delegates should be able to demonstrate these necessary skills during practical examination and demonstrate knowledge during written examination.

#### **Course Design**

- Power Point© / Lecture / Audio Video / Visual Aids
- Demonstrations
- Practical Exercises

#### **Successful Course Completion**

- Requires a minimum score of 75% or better.
- Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
- Delegates will have no more than thirty (30) minutes to complete the exam.
- Successful completion of practical session is mandatory.

### **Course Content Summary**

- Classroom
- Practicals

**Breaks:** 10 minutes (approximately every hour)

**Lunch:** 1 Hour (of applicable)

#### **Course Outline**

Rigging Requirements

- Qualified Rigger API RP 2D Definition
- Rigger Responsibilities
- Manufacturer Responsibilities
- Common Rigging Problems



### M&A Safety Services, LLC

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• Rigging Plan

## **Rigging Equipment**

- Definition & Terminology
- Blocks & Sheaves
  - Inspection Criteria
  - o Typical Block Components
- Wedge Sockets
  - Installations and Inspection
- Hooks, Latches
  - Different Types
  - o Inspection Criteria
  - Proper/Improper Use
- Shackles
  - Different Types
  - o Inspection Criteria
  - Proper/Improper Use
- Slings
  - Different Types
  - Inspection Criteria
  - Characteristics
  - Proper/Improper Use
- Rings, Links, Swivels
  - Different Types
  - Characteristics
- Turnbuckles
  - Different Types
  - Inspection Criteria
- Spreader and Equalizer Beams
- Cable Clips
- · Pad eyes, Eyebolts, and Other Lifting Equipment
- Housekeeping and Storage

### Rigging Technique

- 3 Basic Hitches
- Sling Configuration
- Sling Angles
- Rated Load
- Weight of a Load
- Center of Gravity
- Moving the Load
- Load Control
  - Tag Lines

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### Hands-Free Devices

- Advantages
- Why Hands-Free Devices
- Device Types
- Unbinding Loads
- Pinch Points/Body Positions
- Load Stability
- Personnel Transfer
- Other Factors (Environmental/Electrical)

### **Rigging Safety**

- Lift Planning
- Personal Protective Equipment
- Communication Hand and Voice Signals

### **Practical Session**

Practical training shall utilize a hydraulic crane, various slings, loads & rigging techniques.

Practical shall verify that the delegate is able to complete the following:

- Select and wear appropriate PPE during practical training.
- Inspect and identify damaged hardware/rigging gear.
- Select the appropriate hardware/rigging gear to complete required lifts.
- Communicate effectively with the crane operator using proper hand signals.
- Use tag lines properly to control loads.
- Select the appropriate rigging techniques to complete the required lifts.
- Use acceptable sling angles to determine safe lifting operations.
- Maintain hand/body position absent from hazards (pinch points).
- Prevent anyone from standing under a suspended load.
- Work safely with other riggers as a team.
- Store hardware/rigging gear properly following its use.

### **Training Center Provided Material**

- PPE
- Crane with Operator
- Rigging Material

#### **Delegate Requirements**

Must possess good physical health as the practical training is physically demanding.

#### **Reference Material / Documents**

API RP 2D Sixth Edition OSHA 29 CFR 1926.1421