

## Industrial Rigging



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### Description

This class will teach participants to safely perform day to day rigging lifts as well as the more difficult rigging lifts. Students will learn the proper usage of all rigging mediums and the effects of sling angles on the tensions exerted on the slings. Participants will be exposed to the many different types of lifting equipment. Students will also gain insight into the uses of wire rope, lifting chains, nylon slings, poly slings, kevlar slings, metal mesh slings, hooks, eye bolts, shackles, lifting rings, cable clips, and the proper ways of rigging a load.

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### Outline

- Calculating Load Weights
- Rules of Thumb for Figuring Strengths
- Safety Guidelines for Rigging
- Proper Ways to Reeve Lifting Pulleys
- Safe Working Loads
- The Correct Way to Install Cable Clips
- Inspection of Lifting Equipment
- Establishing Centers of Gravity on Lifts
- What's New in the Rigging Industry
- Selecting the Proper Lifting Equipment
- The Effects of Sling Angles on Lifts
- Calculating Lifting Allowances
- Hook Strengths
- ANSI Hand Signals for Operators
- Secondary Safety Restraints
- End Terminations and Efficiencies
- Inspection Guidelines
- Sources and Suppliers of Equipment

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### Prerequisites

Participants should possess a willingness to learn safe rigging practices.

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### Course Length

32 hours.

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### Performance Objectives

At the completion of this course the participant will be able to:

- Calculate the approximate weight of the object to be lifted.
- Select the proper rigging equipment.
- Calculate the effects of the sling angle on the tension of the sling.
- Correctly select the proper rated sling for the job.
- Perform safe rigging lifts.
- Demonstrate the correct hand signals used in lifting.