

Industrial Rigging

This two-day course covers the basic principles of lifting and handling equipment used by plant personnel. The primary focus of this course is safety. OSHA and ANSI standards will be discussed as they apply to the types of rigging equipment used at your facility. Participants will learn how to determine load weights, select the proper rigging hardware, and safely use the equipment to move heavy loads.

I. Wire Ropes and Slings

- Grades
- Classifications
- Rope Lay
- Measuring Lay Length
- Cores
- Safety Factors
- Non-Rotating Ropes
- Inspections
- End Fittings
- Chains
- Slings
- Hitches
- Safe Working Loads
- Fiber Slings

II. Rigging Hardware

- Hooks
- Shackles
- Eyebolts
- Hoists
- Electric Hoists
- Blocks and Tackle
- Mechanical Advantage
- Friction

III. Cranes, Derricks, and Hoists

- Tower Cranes
- Tower Configurations
- Jib Configurations
- Mounting Configurations
- Overhead Cranes
- Crane Replacement
- Wire Rope Lubrication
- Mounting Types
- Mobil Cranes
- Crane Operation
- Clamshell Attachment
- Load Dropping Attachments
- Magnet Cranes
- Rock Tongs and Grabs
- Crane Set-Up
- Helpful Hints