



Hoisting and Rigging Outline

Three Day Class

Introduction to Rigging Safety

- **Accident causes**
- **Personal safety equipment - hardhats, steel-toed shoes, gloves, etc.**
- **Proper clothing and gear**
- **Personal lifting techniques**
- **Special considerations - electrical hazards, trip and fall environment, confined spaces, etc.**

How to Calculate the Weight of a Load

- **Load rating tables**
- **Effects of load angle**
- **How to lift the load**
- **Communications and signals**
- **Dynamometers**

Rigging Hardware

- **Types**

Slings

- **Usage's - pros and cons**
- **Good and bad practices**
- **Inspections**

Hitches

- **Purpose and use of each hitch**
- **Hitch limitations**
- **Load limitations**
- **Load rating tables**
- **Inspections**

Ropes

- Types and purposes
- Handling and care

Mechanical Advantage

- Overhead cranes
- Mobile cranes
- Jib cranes
- Gin poles
- A-frames
- Come-a-longs
- Chain hoists
- Force vectors
- Pulley Systems

