Basic Rigging & Slinging

Safe Lifting Practices for Industrial and Construction Work

Course Overview

This training program provides essential knowledge and practical skills in safe rigging and slinging operations for industrial and construction environments.

Participants will learn proper lifting techniques, load calculations, equipment inspection procedures, and hazard identification to prevent lifting accidents. The course emphasizes compliance with occupational safety regulations and practical hands-on learning using real-life lifting scenarios.

Course Objectives

Upon completion of this training, participants will be able to:

- Identify different types of rigging equipment and lifting gear
- Understand sling types, shackles, and lifting accessories
- Perform safe slinging and lifting procedures
- Calculate safe working load (SWL)
- Conduct pre-use inspection of lifting equipment
- Identify hazards and apply risk control measures
- Prevent lifting-related accidents

Training Benefits

Participants and organizations will benefit from:

- Improved lifting safety awareness
- Reduced risk of workplace accidents
- Compliance with occupational safety regulations (DOSH / JKKP requirements)
- Enhanced competency in safe load handling
- Practical hands-on experience
- Accredited certificate upon completion

Target Audience

- Riggers
- Slingers
- Crane Operators
- Construction Workers
- Maintenance Personnel
- Supervisors overseeing lifting operations
- Safety Officers

Training Methods

- Interactive classroom lectures
- Demonstration of lifting equipment
- Hands-on practical lifting exercises
- Real-life case studies
- Group discussions
- Risk assessment exercises
- Practical competency evaluation

Course Modules

Module 1: Introduction to Rigging & Slinging

- Roles and responsibilities
- Relevant safety regulations
- Common lifting hazards

Module 2: Types of Rigging Equipment

- Slings (wire rope, chain, synthetic)
- Shackles and hooks
- Lifting accessories
- Safe working load (SWL) and load limits

Module 3: Load Calculation & Lifting Principles

- Weight estimation
- Center of gravity
- Sling angle effects
- Load balance techniques

Module 4: Slinging Methods & Lifting Procedures

- Vertical hitch
- Choker hitch
- Basket hitch
- Multi-leg sling configurations

Module 5: Inspection & Maintenance

- Pre-use inspection checklist
- Identifying damaged equipment
- Equipment rejection criteria

Module 6: Risk Assessment & Accident Prevention

- Hazard identification
- Safe lifting planning
- Communication and hand signals
- Emergency procedures

Training Timeline (1 Day | 9:00 AM – 5:00 PM)

9:00 – 9:15	Registration & Introduction
9:15 – 10:30	Introduction to Rigging & Safety Regulations
10:30 – 10:45	Morning Break
10:45 – 12:00	Types of Rigging Equipment & Load Calculations
12:00 – 1:00	Lunch Break
1:00 – 2:15	Slinging Methods & Lifting Procedures
2:15 – 2:30	Afternoon Break
2:30 – 3:45	Inspection & Maintenance Workshop
3:45 – 4:30	Practical Lifting Demonstration
4:30 – 4:50	Assessment / Knowledge Review
4:50 – 5:00	Closing & Certificate