



HSE248

Industrial Rigging and Forklift Safety

Course Introduction:

In these five days, you will learn how to determine safe load limits, figure balance points of loads, apply the techniques of a skilled crane operator, inspect cranes for safety and work safely while working on rigging and forklift operation.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Apply a basic knowledge on industrial rigging and forklift safety
- Carryout rigging and forklift operations safely
- Understand the fundamentals of forklift safety including the hazards involved in forklift driving
- Enumerate the types of slings, hooks and wire ropes used in rigging operations
- Identify chain and its classification that includes the welded link chain, chain grades, chain strength, chain attachments, chain slings, inspecting chain slings and etc.
- Illustrate the general operating practices of using industrial hoist and cranes, inspection and standard hand signals for cranes as well as the proper use of spreader beams
- Determine wedges and inclined planes, load leveling and practice fork-lift operation
- Apply pre-use inspection, operation, stability, conditions and loads and recognize hazards in real life situations

Who Should Attend?

This course is intended for engineers and maintenance supervisors who directs lifting operations. It is also suitable for industrial workers and technical staff involved in rigging operations.

Course Outline:

Day 1:

- Introduction to Industrial Rigging
- Tools Used In Rigging Operations
- Determination of Body Weight
- Determination of Centre of Gravity
- Forces on Slings
- Types of Slings

- Types of Hooks
- Wire Ropes
- Wire Rope Fittings and Terminations
- Wire Rope Slings
- Inspection of Wire Rope Slings

Day 2:

- Welded Link Chain
- Chain Grades
- Chain Strength
- Chain Attachments
- Chain Slings
- Inspecting Chain Slings
- Metal Mesh
- Inspecting Metal Meshes
- Fibre Ropes
- Fibre Rope Strength
- Inspecting Fibre Rope Slings

Day 3:

- Industrial Hoists and Cranes
- Overhead Hoists
- Hoist and Crane Inspection
- Standard Hand Signals for Cranes
- General Operating Practices
- Proper Use of Spreader Beams

Day 4:

- Wedges & Inclined Planes
- Load Leveling
- Fork-Lift Operation
- Design, Capabilities and Limitations

Day 5:

- Pre-use Inspection
- Operation
- Stability, Conditions and Loads

- Hazards
- Real-Life Situations
- Course Evaluation and Summary

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

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Course Fees:

To be advised as per the course location. This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee/Tea
08:20 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Coffee/Tea/Snacks)
13:30 - 15:00	Last Session