



Course Objective:

Overhead cranes move heavy items in manufacturing and production areas. Although cranes are useful, “overhead” cranes can sometimes be “out of sight and out of mind” when it comes to safety. Only trained and qualified operators should use overhead cranes.

The overall objectives of the course are discussed with the trainees, placing an emphasis on individual operator responsibilities. The shift in liability from the management to the operator is stressed for those who are trained and qualified. The operators will be trained in safe operation and handling of crane, avoiding accidents, proper material handling techniques, and protecting equipment and materials.

This course is designed to develop operator from o to hero and recognized, correct and safe practical applications of the Overhead Crane. Including safety knowledge of its capabilities and limitations.

Program Content & Highlight:

Module 1: Introduction to Overhead Crane Operations

- 1.1 Understanding the Role of Overhead Cranes in Industry
- 1.2 Importance of Safe Crane Handling
- 1.3 Overview of Legal Frameworks and Regulations
 - OSHA 514/1994
 - Factory Machinery Act 1967

- Certificate of Fitness (PMA)
- 1.4 Operator Responsibilities and Accountability
- 1.5 Personal Protective Equipment (PPE) Requirements

Module 2: Crane Components and Functional Overview

- 2.1 Types of Hoists and Cranes
- 2.2 Key Crane Components
- 2.3 Controls and Instruments
- 2.4 Understanding Crane Limitations

Module 3: Safe Operation Practices

- 3.1 Pre-Shift Inspection Procedures
- 3.2 Starting, Moving, and Stopping Techniques
- 3.3 Safe Working Load (SWL) and Load Limits
- 3.4 Lifting, Transporting, and Lowering Loads
- 3.5 Emergency Stop Procedures
- 3.6 Usage of Safety Equipment
- 3.7 Crane and Slinger Signal Communication

Module 4: Advanced Safety Knowledge

- 4.1 Behavior-Based Safety Principles
- 4.2 Stability Factors and the Stability Triangle
- 4.3 Crane Characteristics During Lifting and Travel
- 4.4 Industry Codes of Practice and Best Practices

Module 5: Practical Handling and Demonstration

- 5.1 Trainer Demonstration of Safe Crane Operation
- 5.2 Guided Practical Handling by Participants
- 5.3 Troubleshooting Common Operational Issues

Module 6: Assessment and Feedback

- 6.1 Practical Skills Assessment
- 6.2 Observation and Correction
- 6.3 Trainer Feedback and Individual Review
- 6.4 Closing Remarks and Safety Commitment

