

COMPETENCY-BASED TRAINING ON THE SAFE OPERATIONS OF CRANES

“Enhancing Operational Safety, Efficiency, and Compliance in Crane Handling”

Schedule

Date	Venue	Fees (Face-to-Face)
02 – 04 Jun 2026	Doha, Qatar	USD 2495 per delegate
25 – 27 Nov 2026	Dubai, UAE	USD 2495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Crane operations in construction, manufacturing, logistics, and oil & gas environments involve significant safety risks. Improper crane handling can lead to severe accidents, property damage, and costly downtime. Competency-based training ensures that operators, supervisors, and safety personnel understand not just the “how” but the “why” behind safe crane operations.

This practical 3-day training program delivers essential knowledge and hands-on skills for safely operating, signaling, inspecting, and managing cranes. Aligned with international safety standards (e.g., OSHA, ISO, and LOLER), the course reinforces critical competencies to improve lifting operations, prevent incidents, and ensure regulatory compliance.

Objectives

By the end of this course, participants will be able to:

- Identify different crane types and their specific operating characteristics
- Understand load charts, rigging plans, and safe lifting procedures
- Perform pre-operational checks and safety inspections
- Recognize hazards such as overloading, poor ground conditions, and human error
- Implement effective signaling, communication, and emergency protocols

Why Attend

- Reduce the risk of crane-related accidents and downtime
- Comply with local and international health and safety standards
- Develop operator confidence through structured skill-building
- Improve communication between crane operators and ground personnel
- Support your company's HSE performance and audit readiness

Target Audience

This program is designed for:

- Crane Operators and Signalers
- Mechanical and Maintenance Supervisors
- HSE Officers and Safety Inspectors
- Construction, Plant, and Warehouse Supervisors
- Anyone responsible for overseeing or working near crane operations

Individual Benefits

Key competencies that will be developed include:

- Safe load handling and maneuvering techniques
- Interpretation of load charts and lift planning documents
- Rigging safety and slinging best practices
- Accident prevention and response protocols
- Basic mechanical and structural understanding of cranes

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational safety and fewer crane-related incidents
- Compliance with industry regulations and reduced legal exposure
- Enhanced team communication and lift execution coordination
- Better equipment care, inspection, and maintenance practices
- Higher safety culture and reduced insurance or compensation costs

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Crane classification, safety principles, and standards
- Case Studies - Incident analysis and lessons from crane accidents
- Workshops - Load chart reading, lift path planning, and rigging risk assessments
- Peer Exchange - Real-world operational scenarios and safety insights
- Tools - Pre-use checklists, lift plans, inspection templates, and hand signals

Course Outline

DETAILED 3-DAY COURSE OUTLINE

Training Hours: 07:30 AM – 03:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Crane Types, Roles, and Hazards

- Module 1: Introduction to Crane Safety and Regulations (07:30 – 09:30) • LOLER, OSHA, ISO, and local safety requirements • Responsibilities of operators, signalers, and supervisors
- Module 2: Types of Cranes and Safe Applications (09:45 – 11:15) • Mobile, tower, overhead, crawler, gantry, and vehicle-mounted cranes
- Module 3: Crane Hazards and Incident Causes (11:30 – 01:00) • Tip-over, overloading, poor visibility, and human error
- Module 4: Workshop – Crane Type Identification and Hazard Analysis (02:00 – 03:30) • Interactive review of crane types and risk scenarios

Day 2: Load Handling, Rigging, and Lift Planning

- Module 5: Load Chart Interpretation and Capacity Calculation (07:30 – 09:30) • Understanding radius, boom angle, load limits, and lifting zones
- Module 6: Rigging and Slings Safety (09:45 – 11:15) • Slings, shackles, hooks, center of gravity, and load balance
- Module 7: Lift Path Planning and Risk Assessment (11:30 – 01:00) • Planning for safe path, ground conditions, and lift obstacles
- Module 8: Workshop – Simulated Lift Planning (02:00 – 03:30) • Participants develop lift plans and rigging diagrams

Day 3: Inspection, Communication, and Emergency Response

- Module 9: Crane Inspection and Maintenance (07:30 – 09:30) • Daily checks, mechanical faults, wear indicators, and logbooks
- Module 10: Signaling and Team Communication (09:45 – 11:15) • Hand signals, radio communication, and command roles
- Module 11: Emergency Protocols and Incident Response (11:30 – 01:00) • Crane failure, dropped loads, weather impacts, and first response
- Module 12: Workshop – Emergency Drill & Competency Evaluation (02:00 – 03:30) • Scenario-based drills and final participant assessment

Certification

Participants will receive a Certificate of Completion in Competency-Based Training on the Safe Operations of Cranes, confirming their practical skills and theoretical knowledge to safely operate or supervise crane use in industrial and construction environments.

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