



Certified Construction Crane, Hoist & Rigging Specialist

Certified Course Duration: 24 Hours

Course Fees: \$995.00

CEUs: 2.2 Classroom

Offered based on course hours as an IACET Accredited Provider

Course Overview:

The **Certified Crane and Rigging Specialist (CCHRS)** course is an intensive 24-hour program designed to equip participants with in-depth knowledge of crane operations, rigging techniques, and safety standards. The course is aligned with OSHA regulations, ASME/ANSI standards, and best industry practices for crane and hoist operations. Participants must pass a 100-question examination with a score of 80% or higher to receive certification.

Learning Objectives

Participants will be able to:

1. Identify the most common hazards associated with operating a mobile crane, rigging, and moving loads.
2. Locate applicable OSHA standards and requirements
3. Recommend abatement methods for these hazards and violations of these standards

Who should take this course?

- Construction crane operators
- Riggers
- Signal persons
- Supervisors who work on or around mobile cranes
- Safety professionals on construction sites that use crane

Course Schedule: 24 Hours Over 3 Days

Day 1: Crane Safety Regulations and Standards (8 Hours)

Morning Session (4 Hours)

- Course Introduction and Objectives
- Overview of OSHA Regulations for Cranes and Rigging
 - OSHA 1926.1400-1419 Subpart CC: Cranes and Derricks in Construction
 - OSHA 1910.178: Powered Industrial Trucks (as related to lifting equipment)
- Key ASME/ANSI Standards
 - Overview of ASME B30 Series

Afternoon Session (4 Hours)

- Operator Certification and Qualification Requirements
- Site Assessment and Hazard Analysis
- ASME B30.1: Jacks, Industrial Rollers, Air Casters, and Hydraulic Gantries
 - Types of Equipment
 - Safe Operation and Maintenance

Day 2: Rigging Fundamentals and Crane Components (8 Hours)

Morning Session (4 Hours)

- Basic Rigging Principles

- Types of Slings and Hitches
- Load Calculations and Weight Estimation
- Rigging Inspection and Maintenance

Afternoon Session (4 Hours)

- Crane Components and Terminology
 - Boom, Hoist, Jib, and Counterweight
 - Wire Ropes and Sheaves
- ASME B30.2: Overhead and Gantry Cranes
 - Inspection and Safe Operation Procedures

Day 3: Specialized Cranes, Rigging Techniques, and Examination (8 Hours)

Morning Session (4 Hours)

- ASME B30.3: Tower Cranes
 - Erection, Dismantling, and Climbing
 - Stability and Load Chart Interpretation
- **ASME B30.4: Portal and Pedestal Cranes**
 - Types and Applications
 - Inspection and Maintenance Requirements

Afternoon Session (4 Hours)

- **Course Review and Q&A**
- **100-Question Proctored Examination (2 Hours)**

Sample Test Questions and Answers:

Multiple Choice Questions:

1. Which OSHA standard covers crane operator certification requirements?

- a) OSHA 1910.178
- b) OSHA 1926.1400
- c) OSHA 1926.1417
- d) OSHA 1910.120

Answer: b) OSHA 1926.1400

2. What is the primary purpose of outriggers on a mobile crane?

- a) To stabilize the load
- b) To increase lifting capacity
- c) To prevent tipping
- d) To secure the crane to the ground

Answer: c) To prevent tipping

3. Which ASME standard provides guidelines for the safe operation of tower cranes?

- a) ASME B30.1
- b) ASME B30.3
- c) ASME B30.5
- d) ASME B30.4

Answer: b) ASME B30.3

True/False Questions: 4. A crane signal person must be qualified and meet OSHA criteria.

Answer: **(True)**

5. The weight of a load does not need to be calculated before a lift.

Answer: **(False)**

Course Materials:

- **OSHA Regulations** (29 CFR 1910.178 and 29 CFR 1926.1400-1419)
- **ASME B30 Standards** (B30.1, B30.2, B30.3, B30.4, B30.5)
- **Course Workbook**
- **Crane Signal Charts**
- **Practice Tests and Answer Sheets**

Certification Requirements:

- **Complete the 24-hour training program**
- **Pass the 100-question proctored examination with a score of 80% or higher**
- **Online Examination (link provided by email)**
 - Number of Questions: **100**
 - Format: **Multiple Choice & True/False**
 - Time Limit: **2 Hours**
 - Open Book: **Yes**
 - Pass Mark: **80%**
 - **Three Attempts Allowed** before retaking the course at 50% of the listed price

Educational & Experience Requirements:

- Three (3) years of demonstrated experience in a construction safety or crane-related role
- Knowledge of OSHA & ASME regulations
- Experience in producing safety reports
- Experience in writing Job Safety Analysis (JSA), Job Task Analysis (JTA), or work procedures
- Familiarity with data analysis and reporting statistics

- Documented GED / Apprentice Certificate / Skills Training / Associate's or Bachelor's degree in Safety or similar field
- Certificate in occupational health and safety from OSHA, NEBOSH, or a recognized training organization (excluding NASP & IASP)

Recertification:

- A refresher examination is **required every 3 years** to maintain certification.

Recertification Fee: \$195.00

Proprietary Notice

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Purpose: This policy is designed to ensure compliance with all applicable local, state, and federal regulations while maintaining a high standard of professional conduct throughout the organization.

Scope/Application: This policy applies to all instructors, franchisees, and contract individuals of Podojil & Associates, Inc. who conduct courses for the organization.

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