

Overhead Crane

ASMT-OVRHD01

Updated October 2025

Focus Statement

The Overhead Crane Operator Certification verifies that candidates possess the minimum competence required to safely and effectively operate overhead cranes in construction and industrial environments. This certification is aligned with OSHA 29 CFR 1910.179 and ASME B30, ensuring compliance with recognized federal regulations and consensus safety standards. A certified operator will:

- **Regulatory Compliance and Safety Awareness:** Apply working knowledge of OSHA 1910.179 and ASME requirements, including employer responsibilities and operator duties. Recognize and mitigate hazards related to ground conditions, weather, power lines, equipment interaction, and personnel exposure.
- **Operational Readiness:** Conduct pre-operational inspections and functional checks in accordance with manufacturer guidance and ASME B30.2 inspection requirements. Verify that operational aids, safety devices, and load charts are functional and properly applied.
- **Operational Proficiency:** Accurately apply data to determine safe rated capacities under various configurations. Execute safe crane operations, including travel, hoisting, and load positioning, while maintaining awareness of rated load limits and environmental conditions.
- **Rigging and Communication:** Confirm load and rigging hardware compliance with OSHA and ASME standards. Use standardized hand and voice signals to maintain clear communication with signalpersons and ground personnel.
- **Demonstrate Basic Crane Knowledge:** Understand crane components and configurations.
- **Inspection, Maintenance, and Emergency Response:** Identify inspection intervals, testing requirements, and preventive maintenance practices for ropes, hooks, brakes, and other crane components. Demonstrate appropriate response to equipment malfunctions, electrical contact, or site emergencies in compliance with OSHA and ASME procedures.

Performance Level Expectation

A minimally competent operator possesses the foundational knowledge, interpretive skills, and decision-making ability to prevent accidents, maintain regulatory compliance, and safely complete lifting operations. Performance at this level confirms readiness for real-world crane operations under supervi-

Overview

- Three-hour closed-book examination
- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed.

The minimum passing score is 80

Practical Examination

A corresponding hands-on Practical Examination is available and required to earn a certified credential.

Assessment Development

All questions are developed and approved by subject matter experts under the direction of NCCER.

Credentials

Upon successful completion of the certification requirements, credentials can be viewed and printed by the individual or assessment program through their NCCER Account.

Score Report

Each candidate will have online access through their NCCER Account to their assessment results including their overall score and pass or training recommended status.

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Written Assessment Contents:

Content Domains/Topic Areas	Percent of Test
General Knowledge and Safety	12%
<i>Regulatory Standards</i>	
<i>General Safety Procedures</i>	
Inspection, Testing, and Maintenance	10%
<i>Inspection Types and Frequency</i>	
<i>Testing Procedures</i>	
<i>Rope Inspection</i>	
Crane Operations	28%
<i>Crane Function Controls</i>	
<i>Load Handling</i>	
Safety Devices and Operational Aids	9%
Crane Operational Components	8%
Emergency Response	4%
Standard Signals	15%
Verify Load and Rigging Weights	9%

Total Number of Items

65