Advanced Rigger

Updated May 2025

Focus Statement
This assessment is intended for Advanced Riggers who are seeking certification. Candidates should demonstrate sustained competency, safe work habits, and applied knowledge of both core and advanced rigging practices. The candidate possesses extensive expertise, often exceeding 5-10 years of experience as a Rigger. Rigging constitutes their primary full-time responsibility, enabling them to consistently make informed decisions and discern between correct and incorrect practices. They are adept at resolving issues that others may encounter, showcasing their proficiency. Their comprehensive knowledge base encompasses:

- **Apply Safe Rigging Practices:** Understand and follow safety procedures, including the proper use, inspection, and care of rigging hardware, slings, and hitches.
- **Understand Lift Planning Principles:** Contribute to and follow lift plans, including identifying hazards, selecting appropriate equipment, and ensuring safe sequencing of lifts.
- **Recognize and Control Load Dynamics:** Understand how weight distribution, swing, angle, and motion affect loads during lifting and movement.
- **Operate and Set Up Rigging Equipment:** Use hoisting, jacking, and special rigging tools (e.g., spreader bars, equalizer beams, cribbing) correctly and effectively.
- **Demonstrate Basic Crane Knowledge:** Understand crane components, configurations, and setup procedures, including boom assembly and stability considerations.
- **Inspect and Handle Wire Rope:** Perform inspections and ensure proper handling, configuration, and use of wire rope and terminations.
- **Apply Industry Standards and Regulations:** Follow applicable OSHA, ASME, and manufacturer standards in all rigging and lifting operations.
- **Communicate and Respond Effectively:** Participate in pre-lift meetings, communicate with crew members, and respond appropriately to incidents or changing site conditions.
- **Make Informed, Independent Decisions:** Use experience and sound judgment to assess rigging situations and take corrective action when necessary.

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.

NCCER Curriculum
All NCCER knowledge assessments are referenced to NCCER's curriculum modules as listed on this specification sheet. This assessment is referenced to NCCER's 3rd edition of the Basic, Intermediate, and Advanced Rigger curricula. You may order books and modules from Pearson by visiting www.nccer.org/order-books-modules/.

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

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Written Assessment Contents:

Domain	Module ID	Topics	Number of Items
Rigging Practices	21305 21206 38102 38201 38301	Demonstrate proficiency in, understanding, use, and care of: ● Rigging hardware (hooks, lugs, eyebolts, plates, slings) ● Sling angles ● Common hitches ● Piping materials and rebar ● Taglines and knots for load control ● Safety precautions ● Hoisting and jacking equipment ● Rigging equipment and hoists to move loads ● Load dynamics ● Multi-crane lifts planning ● Special rigging equipment (gantry systems, cantilever bar) ● ASME Standards (B30.98, B30.10, B30.23, B30.26)	52
Crane Knowledge	21102 21106 21304 21305 38102	Demonstrate proficiency in, understanding, use, and care of: ● Mobile crane purpose and safety operation considerations (pre-lift meeting, power lines, weather, etc.) ● Crane componenets (safety devices and reeving patterns) ● Lifting capability (ground conditions, landing zone) ● Crane configurations that affect load chart selection (four standard mobile crane configurations, crane's base and its configuration) ● Leverage and stability of a crane ● Crane assembling and dissassembly	22
Lift Plan/ Hoisting	21301 21304 21305 38301	Demonstrate proficiency in, understanding, use, and care of: ● Rigging used in lift planning ● Rigger for personnel hoisting	16
Wire Ropes	21204	Demonstrate proficiency in, understanding, use, and care of: ● Wire rope inspection, handling, and maintenance requirements. ● Reeving wire rope onto load blocks and drums ● Wire rope configurations and terminations	10

Total Number of Items **100**