

## Advanced Rigger

### PIAEN38ADVR03

*Updated January 2024*

#### Focus Statement

The purpose of this assessment is to determine the proficiency level for an Advanced Rigger who possesses extensive expertise, often exceeding 5 years of experience beyond that of 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:

- Proficiency in load charts, including radius and tip height considerations
- Adherence to Occupational Safety and Health Administration (OSHA) requirements
- The ability to contribute to the formulation of a comprehensive lift plan
- Advanced understanding of crane operations, encompassing a broader spectrum of crane-related knowledge
- A deep appreciation for general crane safety principles, including the impact of weight on boom deflection
- Familiarity with the assembly and disassembly processes of various crane types and associated attachments, such as lattice booms, counterweights, and jibs
- A thorough understanding of relevant federal, state, and local regulations, ensuring compliance within their operations

#### Overview

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

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/](http://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 38102 38201 38301	Demonstrate proficiency in, understanding, use, and care of: <ul style="list-style-type: none"> <li>• Rigging hardware (hooks, lugs, eyebolts, plates, slings)</li> <li>• Sling angles</li> <li>• Common hitches</li> <li>• Piping materials and rebar</li> <li>• Taglines and knots for load control</li> <li>• Safety precautions</li> <li>• Hoisting and jacking equipment</li> <li>• Rigging equipment and hoists to move loads</li> <li>• Load dynamics</li> <li>• Multi-crane lifts planning</li> <li>• Special rigging equipment (gantry systems, cantilever bar)</li> </ul>	24
Crane Knowledge	21102 21106 21301 21304 21305 38102	Demonstrate proficiency in, understanding, use, and care of: <ul style="list-style-type: none"> <li>• Telescopic-boom (setting up, assembling, and disassembling, pre and post)</li> <li>• Lattice booms and jibs (component, assembly and disassembly, pre and post)</li> <li>• Toe plates on a crawler</li> </ul>	10
Wire Lift Plan/ Hoisting/ Wire Rope	21301 21304 21305 38301	Demonstrate proficiency in, understanding, use, and care of: <ul style="list-style-type: none"> <li>• Rigging used in lift planning</li> <li>• Rigger for personnel hoisting</li> <li>• Wire rope configurations and terminations</li> </ul>	16

**Total Number of Items**

**50**