



National Craft Assessment and Certification Program S P E C I F I C A T I O N S

Advanced Rigger (RIGADV38)

Released November 2010, Item bank updated November 2020

Overview

This knowledge assessment is a two-hour closed-book examination. You will be permitted to use a basic function, non-printing calculator during the examination. No extra papers, books, notes or study material are allowed in the testing area.

NCCER Curriculum

All NCCER knowledge assessments are referenced to NCCER's Signal Person curriculum. You may order this curriculum from Pearson (800.922.0579) or from NCCER's Online Catalog at www.nccer.org.

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, NCCER will send applicable credentials to the assessment center.

Score Report and Training Prescription

Each candidate will have access to their assessment results including their overall score and recommended training.

NCCER Registry

Knowledge assessment results are recorded in NCCER's Registry and become a part of the portable record of an individual's NCCER credentials.

Focus Statement

In addition to being knowledgeable in all basic and intermediate rigger tasks, the advanced rigger must also demonstrate advanced level of proficiency in all the rigger tasks. The advanced rigger performs specific rigging operations as they relate to blind hoists, traveling with a load, working in close quarters, and lift procedures for personnel. The advanced rigger applies specific rigging criteria from the manufacturer or equipment representative to the safe and appropriate methods of erection, dismantling, jumping, and reconfiguring of cranes. The advanced rigger also applies specific rigging criteria for lifting a single load with multiple cranes. The advanced rigger is advanced rigger identifies and interpret load indicator and safety devices, capacity or load charts, specific mechanical advantages, the center of gravity as it

relates to the rigging operation, as well as the effects of angles or indirect pulling in the rigging operation. The advanced rigger is also proficient in the direction of single, multiple specialized lifts. The advanced rigger is knowledgeable and can demonstrate proficiency in the design, documentation, and implementation of lift planning.

Knowledge Assessment Contents:

Domain	Topic Area	Number of Questions
Communications	Hand signals/voice radio	5
Crane Operations	Boom angles, load radius, capacity & load charts, load indicator & safety devices, load weight estimation, traveling w/the load, working in close quarters, in depth crane knowledge, spec criteria for single & multi-lifts	10
Lifting Criteria	Center of gravity, effects of angles, eq. capacity calculations, vectors & sling angles, personnel lifting	15
Equipment	Come-along, chain hoist, tuggers & winches, jacks, softeners, rigging hardware, slings, rope	7
Rigging Practices	Blind lifts, load configurations, mechanical advantages, taglines, lifting points, reeving,	15
Lift Planning	Critical lifts, sling angles, load dynamics	10
Safety	Emergency procedures, hazards working next to power lines, fall protection	8
Total number of questions		70

The minimum passing score is 80.

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