



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

TELESCOPIC BOOM CRANE V3

AEN21TBC03

July 2017

Focus Statement

Telescopic boom crane operators will know and implement the rules and regulations set forth by ASME B30.5 and will safely apply those standards in daily operations. Operators will read, know, and apply all information provided in the manufacturer's operator manual and will be able to interpret load charts, load testing, LMIs, and any safety instrumentation of each crane. Crane operators will know machine conditions, operational limitations, and load limitations for situations in which the operator may be involved. The operators will conduct all hoisting operations in a safe manner. Operators will be able to effectively communicate with riggers, signal persons, and other site personnel involved with hoisting operations.

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

Knowledge Assessment Contents:

Content Domain	Number of Questions
Pre-operation Lift Planning	22
Pre-operation Inspection/Crane Setup	19
Crane Operation	19
Total Number of Questions	60

ANSI Accreditation

NCCER's Mobile Crane Operator Certification Program is accredited by the American National Standards Institute (ANSI). Details are available on NCCER's website.

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.



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Topic Areas related to Assessment:

Pre-operational Lift Planning	
	Review of Lift Requirements
	Determine Crane Functions
	Verify Crane Gross Capacity
	Verify Load and Rigging Weights
	Calculate Net Capacity
	Communication with Lift Director
Pre-operation Inspection/Crane Setup	
	Assembly of Crane
	Lubrication of Crane Components
	Verification of Rigging
	Adjustments to the Crane
	Ensuring Safety of Jobsite Personnel
	Crane Function Controls
	Traveling the Crane
	Standard Hand Signals
	Placement of Matting
Crane Operation	
	Load Control Instructions
	Load, Unload, or Lift
	Multi-crane Lifts
	Emergency Procedures