

National Craft Assessment and Certification Program
SPECIFICATIONS
PILOT TESTING ONLY



Articulating Boom Crane

Updated April 2025

Focus Statement

This written assessment evaluates whether a candidate possesses the minimum knowledge and understanding required to safely operate an Articulating Boom crane in compliance with ASME B30.22 and OSHA 1926.1400. A minimally competent operator must demonstrate the ability to:

- Identify and interpret key sections of load charts, including rated capacities and configuration limits.
- Recognize required pre-operational inspections and identify equipment or site-related hazards.
- Understand operational limits related to ground

- Select appropriate signaling methods and recognize standard hand and voice communication protocols.
- Apply regulatory safety principles to hypothetical scenarios involving lift planning, crane setup, and emergency procedures.

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 following load charts below will be measured in this assessment (*as available item content allows*):
 - Fassi F390SE
 - PM 58527
 - PM 150

The minimum passing score is 80

Practical Examination

A corresponding hands-on Practical Examination is available.

Assessment Development

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

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.

NCCER

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Written Assessment Contents:

Content Domains	Number of Questions
<i>Topic Areas</i>	
General Knowledge and Safety	7
Regulatory Standards	
Site Preparation and Crane Installation	
General Safety Procedures	
Documentation and Recordkeeping	
Crane Set-up and Assembly	7
Assembly of crane	
Operational Components	
Control Systems	
Safety Devices and Operational Aids	3
Safety Devices	
Operational Aids	
Inspection, Testing, and Maintenance	3
Inspection Types	
Testing Procedures	
Maintenance	
Rope Inspection and Maintenance	

Crane Operations	21
Crane function controls	
Determine crane functions	
Load handling	
Traveling Procedures	
Erecting and climbing	
Load charts	
Net Capacity	
Gross Capacity	
Emergency Response	3
Standard Signals	9
Verify Load and Rigging Weights	7
Total Number of Items	60