

**National Craft Assessment and Certification Program**  
**SPECIFICATIONS**  
**PILOT TESTING ONLY**



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## **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.

### **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.

### **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**

## Written Assessment Contents:

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

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