CONTENTS

PURPOSES OF THE PROGRAM ................................................................. 1
DEVELOPMENT OF THE PROGRAM ....................................................... 1
OBJECTIVES OF TOWER CRANE OPERATOR CERTIFICATION ...................... 1
TOWER CRANE ENDORSED ACCREDITED ASSESSMENT CENTER .................. 1
REGISTRY .......................................................................................... 1
CERTIFICATION POLICIES .................................................................. 1
CONFIDENTIALITY OF INFORMATION .................................................. 2
METHODS OF EVALUATION ................................................................. 2
TOWER CRANE OPERATOR CERTIFICATION CRITERIA ......................... 2
ASSESSMENT: ................................................................................. 3
PRACTICAL EXAMINATION: ................................................................. 3
SCORING ............................................................................................ 4
PATHS TO NCCER TOWER CRANE OPERATOR CREDENTIALS ............... 4
CANDIDATE GRIEVANCES .................................................................. 4
RETEST POLICY ................................................................................ 5
CERTIFICATION AND TESTING TIMEFRAMES ...................................... 5
RECERTIFICATION ........................................................................... 5
CERTIFICATION ACTION ................................................................. 5
CHANGES DURING PERIOD OF CERTIFICATION ................................... 5
REVOCAITION OF CERTIFICATION .................................................. 6
RE-APPLICATION ............................................................................. 6
APPEAL .............................................................................................. 6
ASSESSMENT SPECIFICATIONS ......................................................... 10
APPLICATION INSTRUCTIONS .......................................................... 14
APPLICATION FOR PRACTICAL EXAM .............................................. 15
REGISTRATION AND RELEASE FORM ............................................... 16
INCIDENT REPORT FORM .................................................................. 16

NCCER Crane Operator Certification Program
13614 Progress Boulevard
Alachua, FL 32615

Phone: (888) 622-3720  Fax: (386) 518-6303
CraneCertification@nccer.org

Copyright © 2015 by NCCER, Alachua, FL 32615, and published by Pearson Education, Inc., New York, NY 10013. All rights reserved. Printed in the United States of America. This publication is protected by Copyright, and permission should be obtained from NCCER prior to any prohibited reproduction, storage in a retrieval system, or transmission in any form or by any means, electronic, mechanical, photocopying, recording, or likewise. To obtain permission(s) to use material from this work, please submit a written request to NCCER Product Development, 13614 Progress Blvd., Alachua, FL 32615.
PURPOSES OF THE PROGRAM
The goals of the NCCER Tower Crane Operator Certification Program are:

• Enhance the practice and profession of tower crane operation through validated and reliable certification instruments.

• To directly promote competency of operation and a safer work environment.

• Organize and implement a comprehensive program for the qualification of tower crane operators.

• Promote the development of knowledge and skills of those interested in the tower crane operating and hoisting profession.

• Provide technical assistance to agencies having regulatory authority applicable to testing and certification of tower crane operators.

DEVELOPMENT OF THE PROGRAM
NCCER and NACB partnered to develop a Tower Crane Operator Certification Program which meets or exceeds current ASME B30 standards and OSHA regulations. Assessments were developed following strict professional testing guidelines endorsed by the American Psychological Association. All development phases involved subject matter experts (SMEs) who represented their respective technical areas. Prov™, NCCER’s test-development partner, provides psychometricians who monitor test development and performance on an ongoing basis, in conjunction with NCCER.

OBJECTIVES OF TOWER CRANE OPERATOR CERTIFICATION
The Tower Crane Operator Certification Program was developed to identify those individuals with the professional knowledge and skills worthy of being designated as a Certified Tower Crane Operator. Therefore, the Tower Crane Operator Certification Program is intended to accomplish the following objectives:

• Identify tower crane operators who meet minimum criteria for certification.

• Stimulate the improvement of crane operation and establish it as a certifiable profession.

TOWER CRANE ENDORSED ACCREDITED ASSESSMENT CENTER
The NCCER Tower Crane Operator Certification program can only be administered through an NCCER Tower Crane Endorsed Accredited Assessment Center (AAC). Each AAC determines the schedule and cost of services to be provided. Visit www.nccer.org or call NCCER customer service at 888-622-3720 to locate a Tower Crane Endorsed AAC.
REGISTRY

The NCCER Registry maintains records of assessment and practical examination results and issues credentials for successful completions through a network of Accredited Assessment Centers (AACs). All records are stored securely in the NCCER Registry.

Certified Tower Crane Operators receive an NCCER wallet card which includes an NCCER card number. This number is used to access online verification credentials through the Registry. This process can also be used to allow employers and inspectors to verify qualifications.

CERTIFICATION POLICIES

Through continuing and careful study of tower crane operator qualifications, NCCER has developed the following basic policies:

• In order for a candidate to be certified, all parts of the certification process must be successfully completed.

• The candidate shall acknowledge, by affidavit, that he/she has been found physically qualified to operate tower cranes per ASME B30.3 and that he/she has passed a substance abuse test. Physical examinations and substance abuse tests shall be required, as a minimum, every three years.

• To certify tower crane operators within the specified crane type(s) as outlined in the current ASME B30 standards as well as federal, state, and local requirements.

• To deny certification to candidates who lack understanding in any subject area in which tower crane operators, in their particular field, are expected to have competence.

• To ensure NCCER's Tower Crane Operator Certification Program keeps pace with the constantly changing crane operation environments.

• To assess qualitative as well as quantitative factors in making the certification decision.

• To securely maintain a registry of certified tower crane operators’ assessment and exam records.

CONFIDENTIALITY OF INFORMATION

Records of all examiners and participants in the program will be confidentially maintained.

• Information supplied by a candidate, and not by the individual’s employer, is for the confidential use of the AAC and NCCER and it will not be disclosed without the specific written permission of the individual candidate concerned.

• Information supplied by the employer company is for the confidential use of the AAC and NCCER and it will not be disclosed without the specific written permission of the employer concerned.

All participants in the Tower Crane Operator Certification Program will be required to sign an NCCER release form allowing NCCER to verify a participant’s status to the AAC, if requested.
METHODS OF EVALUATION
Because qualitative factors can be more important than the numbers of hours an operator has spent in the seat, the general principles outlined in the criteria will be checked closely by analyzing each particular candidate.

The prime considerations in evaluating a candidate for certification as a tower crane operator are as follows:

1. That the results of examination of his/her knowledge and skills are considered satisfactory as a tower crane operator in general, in addition to whatever specific requirements of the particular tower crane type(s) for which certification is sought, and,
2. That the depth of his/her understanding in these same areas merits the designation “Certified Tower Crane Operator.”

TOWER CRANE OPERATOR CERTIFICATION CRITERIA
NCCER’s primary objective is to assure that the specific competencies identified in the ASME B30 standards have been achieved. The decision to certify or re-certify will be based on an evaluation of the degree to which the tower crane operator has achieved these competencies. The tower crane operator must provide, through assessment and practical examination, clear and convincing evidence to NCCER that such competencies have been achieved.

The candidate must fulfill all of the following prior to issuance of certification:

1. Demonstrate the ability to read, write, comprehend and exhibit mathematical skills, in the language of the crane manufacturer’s operations and maintenance instructional materials.
2. Pass a tower crane assessment.
3. Pass a tower crane practical examination.
4. Complete and sign the Application for Tower Crane Practical Examination, which includes an affidavit that a medical professional has found him/her physically qualified to operate tower cranes per ASME B30.3 and that he/she has successfully passed (negative result) a substance abuse test, as specified in the current ASME B30.3 standards, and will continue to comply.
5. Have photo submitted to and approved by NCCER.

Upon satisfaction of the above requirements, results will be posted in NCCER’s Registry. Credentials will be forwarded to the Primary Administrator for distribution.

Applicants meeting the above requirements will be granted “certified tower crane operator” status for a period of five years from issuance of certification.
ASSESSMENT

There is one written assessment for tower crane operator certification.

The following topics are included in the tower crane assessment:

- Operational characteristics
- Limitations
- Standard hand signals
- Pre-start inspections
- Post-start inspections
- General safety knowledge
- Gross and net capacities
- Gross and net loads
- Control functions
- Response to crane/control malfunction
- Capacity chart knowledge
  - Load chart calculations involving simple math
  - Gross and net capacities
  - Gross and net loads
  - Capacity reductions
  - Boom length, boom angle, and load radius (as applicable to the Self Erect and Luffing Boom cranes)

The assessment must be delivered through a Tower Crane endorsed AAC by a certified proctor, coordinator, or administrator.

PRACTICAL EXAMINATION

There are three practical examination categories resulting in 3 equipment-specific tower crane operator certifications:

1. Luffer
2. Hammer Head
3. Self Erect
The following topics are included in all tower crane practical examinations:

- Pre-operational inspection
- Machine set-up
- Outrigger deployment (where applicable)
- Crane levelness (as applicable to the Self Erect crane)
- Maneuvering skills
- Securing procedures
- Operational skills
  - Hoisting
  - Simultaneous control of multiple functions
  - Following standard hand signals
  - Using and applying operational aids (where applicable)

The practical examination must be administered by a certified Tower Crane Practical Examiner (CPE).

The Application for Tower Crane Practical Examination must be approved by the Primary Administrator and submitted to NCCER before credentials will be issued.

**SCORING**

Both assessments and practical examinations are scored by computers at Prov™, NCCER’s test development partner. Assessment and practical examination score results are available within 15 minutes of submission at [www.nccer.org/score-retrieval](http://www.nccer.org/score-retrieval).

**CANDIDATE GRIEVANCES**

In the event a tower crane operator candidate feels he/she has experienced any testing irregularities or has a complaint or appeal, the candidate may complete the “Candidate Grievance Form.” This form is located on the NCCER website, and included in the “Candidate Handbook.” The candidate will fill in the date, their name, and candidate ID and then write a detailed description of their grievance. Once completed, the candidate shall forward the form to the Primary Administrator of the Accredited Assessment Center where the incident occurred. The Primary Administrator will fill in the name of the examiner who proctored the assessment/practical exam, assessment key number, sign and date the form and then forward it to NCCER's Program Services Department.

NCCER will request written statements from all parties involved and conduct interviews, if applicable, with both the proctor and the candidate. Once NCCER has reviewed all documentation/evidence, a resolution will be made and all parties will be notified of said resolution.
RETEST POLICY
If the cut score is not attained on the initial tower crane assessment, a retest may be taken following a
two-day waiting period. If the initial tower crane practical examination is not passed, the Tower Crane
Practical Examiner will determine when retesting may be done. Subsequent retests (after two attempts)
require a 30-day waiting period with no more than four attempts within a 12-month period.

CERTIFICATION AND TESTING TIMEFRAMES
Tower crane operator candidates have 12 months from passing either the assessment or practical
examination to complete the certification process. Results expire after 12 months if the process is not
completed.

RECERTIFICATION
In order to obtain recertification, a candidate must repeat the initial certification requirements. Tower
crane operators must recertify every five years.

CERTIFICATION ACTION
Certification is granted for a specific period of five years from the date of certificate issuance. The term
of certification is subject to review for cause at any time during the period of certification. Certification is
granted if current conditions are judged to be meeting or exceeding the minimum criteria requirements.
If, for any reason, the future of an operator’s abilities appears precarious or weak, certification may be
revoked.

A “Not to Certify” action is effective immediately after exhausting the appeal procedures. The
notification to the operator, employer, or the Tower Crane Endorsed AAC when applicable, shall indicate
the following:

   a. The termination supersedes the certification status of the tower crane operator, and
   b. The Certifier expects the certified individual to notify his/her employer of the termination of the
      “certified tower crane operator” status.

The Tower Crane Endorsed AAC is restricted by NCCER policies and procedures in the granting of
certification. The Tower Crane Endorsed AAC has no authority to impose any restrictions or standards
upon tower crane operators or their employers.

CHANGES DURING PERIOD OF CERTIFICATION
It is the obligation of the Certified Tower Crane Operator to notify the Certifier of any accidents/incidents
(an event that results in injury or property damage) the individual has had with the crane type(s) for
which certification has been obtained, or any significant changes in the medical, physical or other abilities
of the operator that would affect certification status during the period of certification. Notification of the
above-described accident/incident or changes in abilities must be made to NCCER within 48 hours.
of said accident or change in ability; failure to do so constitutes immediate revocation of any and all certification types. NCCER also reserves the right to obtain and review feedback from Tower Crane Endorsed AACs on those operators certified in the program (as a way to monitor certificate holders that have completed the program).

Certified Tower Crane Operators should submit the “Incident Report” online at www.nccer.org or by fax using the online form. To report changes in medical, physical, or other abilities, they may email CraneCertification@nccer.org.

**REVOCATION OF CERTIFICATION**

- Any misrepresentation or fabrication of documents submitted to NCCER in regards to the Tower Crane Operator Certification Program.
- Failed substance abuse test as required in the Tower Crane Operator Certification Program.
- Any documented recordable crane accident (an event that results in injury or property damage) that is submitted to the Revocation Committee whereby crane operator error is determined to be the cause of the accident.
  - Certified Tower Crane Operators are required to notify the Certifier of a documented, recordable crane accident/incident within 48 hours of the accident. Failure to do so will result in revocation of certification without appeal. Certified Tower Crane Operators should submit the “Incident Report” online at www.nccer.org or by fax using the online form.
  - The Certifier must document the reasons for proposed revocation and submit them to the Revocation Committee. The Revocation Committee will render a final decision and notify the Certifier. The Certified Tower Crane Operator is promptly notified by the Certifier of the Committee action, and is at that time given the right to an appeal. Certification is continued until the appeal procedure has been exhausted.

**RE-APPLICATION**

If an operator’s credentials are revoked due to a failed substance abuse test the operator may reapply for certification 12 months after the date of the revocation. If an operator’s credentials are revoked two or more times (for any reason) the operator may not apply for recertification. If an operator’s credentials are revoked because of an accident that was determined to be operator error, the operator candidate may reapply for certification 12 months after the date of the revocation.

All reapplications must go before and be considered by the Crane Operator Certification Board for review. Reapplication may require additional documentation/verification.

If an operator’s credentials are revoked because of misrepresentation or fabrication of documentation, the operator may not apply for recertification.

Reapplication means that a candidate must complete all requirements for certification.
**APPEAL**

In the event a Certified Tower Crane Operator wishes to appeal revocation of certification actions taken by NCCER, notice of intent to appeal must be received within 30 days of the date of revocation notification. NCCER will forward the appeal to the Appeals Committee. Upon receipt of such notice, the Board will review the appeal and make its decision in a timely manner. The findings of the Committee will be reported to the Certifier, who will report back to the operator and Certification Program Endorsed AAC (where applicable).

The “revocation” action is effective immediately after exhausting the appeals process. The notification to the operator or the Tower Crane Endorsed AAC when applicable shall indicate the following:

a. The termination supersedes the certification status of the operator, and

b. The Certifier expects the certified individual to notify his/her employer of the termination of the certified tower crane operator status.

**FORMS**

The following forms are available on the NCCER website for download.

**Assessment Specifications**

Specifications list the topics, number of questions, time allowed and cut scores of the assessment.

**Application for Tower Crane Practical Examination**

The submission of this form is required for an individual to take any tower crane practical examination. This form must be signed and dated by the candidate on or before the day the candidate attempts the practical examination. The Application for Tower Crane Practical Examination must be approved by the Primary Administrator and submitted to NCCER before credentials will be issued.

**Registration and Release Form**

This form provides a permanent record that the participant grants permission for the AAC to have access to their assessment results. All participants must sign this form.

**Applicant Retest Agreement**

In order to protect the integrity and security of assessments, this form is required to be signed by all applicants. In signing this form, they state understanding that all NCCER assessment questions are proprietary to NCCER and are protected under copyright law and agree not to discuss or disclose NCCER assessment content.
Candidate Grievance Form

This form is used by the candidate to report any grievance relating to testing irregularities or candidate complaints and appeals. The form is located on the NCCER website. The form is to be completed by the candidate and forwarded to the Primary Administrator. Once the Primary Administrator has completed his/her portion of the form, it is forwarded to NCCER’s Program Services Department for review and action.

Incident Report Form

This form is used by the Certified Tower Crane Operator to report any accident/incident for the crane type(s) for which certification has been obtained.
Overview
This assessment is a three-hour, closed-book examination complemented with practical exams for an equipment-specific certification. You will be permitted to use a nonprogrammable, nonprinting calculator during the examination. The assessment center will provide any necessary pencils and necessary load charts. No extra papers, books, notes or study material are allowed in the testing area.

Assessment Development
All questions on the assessment have been developed and approved by subject matter experts from the respective craft. Assessment development and administration operates under the direction of Prov, NCCER’s testing partner.

Training Prescription Reports
Each candidate will have access to individual assessment results at www.provexam.com. This training prescription will include the overall score and results by topic area.

Accreditation
NCCER’s Mobile Crane Operator Certification Program is accredited by ANSI. Please ask your testing center for details.

National Registry
Certification results will be maintained in NCCER’s National Registry. These records are stored and become a portable record of your certification achievements.

Credentials
NCCER will send appropriate credentials (certificate, wallet card, and official transcript) to the assessment center upon successful completion of all requirements for mobile crane operator certification.

Assessment Contents:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Topic Area</th>
<th># of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical</td>
<td>Federal &amp; State Regulations</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Principles of Craning Operations</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Crane Related Terminology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Structural Limitations of the Crane, Auxiliary Equipment &amp; Attachments</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Wire Rope</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Rigging &amp; Rigging Hardware</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Load Information</td>
<td>1</td>
</tr>
<tr>
<td>Jobsite</td>
<td>Ground Stability</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Electrical Hazards</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Blocking, Cribbing &amp; Mats</td>
<td>1</td>
</tr>
<tr>
<td>Normal Operations</td>
<td>Communications &amp; Signaling</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Common hand signals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hydraulic hand signals</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Pre-operational Inspection &amp; Maintenance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Proper Crane Set-up</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Adverse Weather Conditions</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Load Movement</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Operator Assist Devices, Electronic &amp; Manual</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced Operations</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Charts</td>
<td>General Capacity Chart Knowledge</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Math)</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Look up)</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Math)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Look up)</td>
<td>1</td>
</tr>
<tr>
<td>Total Number of Questions</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

The cut score for this assessment is 80.
Industrial and All Purpose Crane V2
INAP21_02
Released September 2010

Overview
This assessment is a three-hour, closed-book examination complemented with practical exams for an equipment-specific certification. You will be permitted to use a nonprogrammable, nonprinting calculator during the examination. The assessment center will provide pencils and necessary load charts. No extra papers, books, notes or study materials are allowed in the testing area.

Assessment Development
All questions on the assessment have been developed and approved by subject matter experts from the respective craft. Assessment development and administration operates under the direction of Prov, NCCER’s testing partner.

Training Prescription Reports
Each candidate will have access to individual assessment results at www.provexam.com. This training prescription will include the overall score and results by topic area.

Accreditation
NCCER’s Mobile Crane Operator Certification Program is accredited by ANSI. Please ask your testing center for details.

National Registry
Certification results will be maintained in NCCER’s National Registry. These results are stored and become a portable record of your certification achievements.

Credentials
NCCER will send appropriate credentials (certificate, wallet card, and official transcript) to the assessment center upon successful completion of all requirements for mobile crane operator certification.

Assessment Contents:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Topic Area</th>
<th># of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical</td>
<td>Federal &amp; State Regulations</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Principles of Craning Operations</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Crane Related Terminology</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Structural Limitations of the Crane, Auxiliary Equipment &amp; Attachments</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Wire Rope</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Rigging &amp; Rigging Hardware</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Load Information</td>
<td>1</td>
</tr>
<tr>
<td>Jobsite</td>
<td>Ground Stability</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Electrical Hazards</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Blocking, Cribbing &amp; Mats</td>
<td>1</td>
</tr>
<tr>
<td>Normal Operations</td>
<td>Communications &amp; Signaling</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Common hand signals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hydraulic hand signals</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Pre-operational Inspection &amp; Maintenance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Proper Crane Set-up</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Adverse Weather Conditions</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Load Movement</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Operator Assist Devices, Electronic &amp; Manual</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced Operations</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Charts</td>
<td>General Capacity Chart Knowledge</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Math)</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Look up)</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Math)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Look up)</td>
<td>1</td>
</tr>
<tr>
<td>Total Number of Questions</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

The cut score for this assessment is 80.
Overview
This assessment is a three-hour, closed-book examination complemented with practical exams for an equipment-specific certification. You will be permitted to use a nonprogrammable, nonprinting calculator during the examination. The assessment center will provide any necessary pencils and necessary load charts. No extra papers, books, notes or study material are allowed in the testing area.

Assessment Development
All questions on each assessment have been developed and approved by subject matter experts from the respective craft. Assessment development and administration operates under the direction of Prov, NCCER’s testing partner.

Training Prescription Reports
Each candidate will have access to individual assessment results at www.provexam.com. This training prescription will include the overall score and results by topic area.

Accreditation
NCCER’s Mobile Crane Operator Certification Program is accredited by ANSI. Please ask your testing center for details.

National Registry
Certification results will be maintained in NCCER’s National Registry. These records are stored and become a portable record of your certification achievements.

Credentials
NCCER will send appropriate credentials (certificate, wallet card, and official transcript) to the assessment center upon successful completion of all requirements for mobile crane operator certification.

Assessment Contents:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Topic Area</th>
<th># of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Federal &amp; State Regulations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles of Craning Operations</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>General Crane Related Terminology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Structural Limitations of the Crane, Auxiliary Equipment &amp; Attachments</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Wire Rope</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Rigging &amp; Rigging Hardware</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Load Information</td>
<td>1</td>
</tr>
<tr>
<td>Jobsite</td>
<td>Ground Stability</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Electrical Hazards</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Blocking, Cribbing &amp; Mats</td>
<td>1</td>
</tr>
<tr>
<td>Normal Operations</td>
<td>Communications &amp; Signaling</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Common hand signals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Crawler hand signals</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Pre-operational Inspection &amp; Maintenance</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Proper Crane Set-up</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Adverse Weather Conditions</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Load Movement</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Operator Assist Devices, Electronic &amp; Manual</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced Operations</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Charts</td>
<td>General Capacity Chart Knowledge</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Math)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Look up)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Math)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Look up)</td>
<td>4</td>
</tr>
<tr>
<td>Total Number of Questions</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

The cut score for this assessment is 80.
Overview
This assessment is a three-hour, closed-book examination complemented with practical exams for an equipment-specific certification. You will be permitted to use a nonprogrammable, nonprinting calculator during the examination. The assessment center will provide any necessary pencils and necessary load charts. No extra papers, books, notes or study material are allowed in the testing area.

Assessment Development
All questions on each assessment have been developed and approved by subject matter experts from the respective craft. Assessment development and administration operates under the direction of Prov, NCCER’s testing partner.

Training Prescription Reports
Each candidate will have access to individual assessment results at www.provexam.com. This training prescription will include the overall score and results by topic area.

Accreditation
NCCER’s Mobile Crane Operator certification Program is accredited by ANSI. Please ask you testing center for details.

National Registry
Assessment results will be maintained in NCCER’s National Registry. These records are stored and become a portable record of your certification achievements.

Credentials
NCCER will send appropriate credentials (certificate, wallet card, and official transcript) to the assessment center upon successful completion of all requirements for mobile crane operator certification.

Assessment Contents:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Topic Area</th>
<th># of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical</td>
<td>Federal &amp; State Regulations</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Principles of Craning Operations</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Crane Related Terminology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Structural Limitations of the Crane, Auxiliary Equipment &amp; Attachments</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Wire Rope</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Rigging &amp; Rigging Hardware</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Load Information</td>
<td>1</td>
</tr>
<tr>
<td>Jobsite</td>
<td>Ground Stability</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Electrical Hazards</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Blocking, Cribbing &amp; Mats</td>
<td>1</td>
</tr>
<tr>
<td>Normal Operations</td>
<td>Communications &amp; Signaling</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Common hand signals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hydraulic hand signals</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Pre-operational Inspection &amp; Maintenance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Proper Crane Set-up</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Adverse Weather Conditions</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Load Movement</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Operator Assist Devices, Electronic &amp; Manual</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced Operations</td>
<td>2</td>
</tr>
<tr>
<td>Capacity Charts</td>
<td>General Capacity Chart Knowledge</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Math)</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Capacity Chart Components (Look up)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Determining Capacity Using Capacity Charts (Look up)</td>
<td>1</td>
</tr>
<tr>
<td>Total Number of Questions</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>
NCCER TOWER CRANE OPERATOR CERTIFICATION PROGRAM

Applicant Instructions

The following criteria must be met before any certification documents will be issued:

1. Applicant must successfully complete the written assessment.
2. Applicant must complete and submit to the Primary Administrator, in its entirety, the Application for Tower Crane Practical Examination. **Applicant should be at least eighteen (18) years of age.**
3. Applicant must successfully complete the NCCER practical examination on the specific type(s) of tower crane(s) for which certification is sought.

Applicants meeting the above requirements will be granted “Certified Tower Crane Operator” status for a period of five years from date of certificate issuance. NCCER reserves the right to withhold certification status from those individuals who lack the necessary talents to become Certified Tower Crane Operators as outlined by ASME B30.3, or as needed for the particular job.

Once certified, it is the obligation of the Certified Tower Crane Operator to notify NCCER of any accidents/incidents the individual has had with the tower crane type(s) for which certification has been obtained, or any significant changes in the medical, physical or other abilities of the operator that would affect certification status during the period of certification. **Notification of the above-described accident/incident or changes in abilities must be made to NCCER within 48 hours of said accident or change in ability; failure to do so constitutes immediate revocation of any and all certification types.**

ASSESSMENT

Directions: Certification is granted after both the written assessment and practical examinations are successfully completed.

PRACTICAL EXAMINATION – TYPE(S) SPECIFIC

ONLY an NCCER Tower Crane Endorsed AAC that has an NCCER Tower Crane Practical Examiner affiliated with the center may conduct the practical examinations.

Directions: You must register for at least one crane type-specific practical examination. Check the appropriate tower crane type for which you are applying below. If you wish to register for more than one practical examination, you must complete an application for each one.

**Practical Examinations**

- 1. Luffer
- 2. Hammer Head
- 3. Self Erect

The Tower Crane Practical Examiner will note specifics of the equipment used on the practical exams.
Application for Tower Crane Practical Examination

Submitted by:

AAC Name

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Administrator</td>
<td>Secondary Administrator</td>
<td></td>
</tr>
</tbody>
</table>

Confidentiality of Information: Information supplied by an individual or employer is for the confidential use of NCCER and will not be disclosed without the written permission of the individual or employer concerned. This application should be submitted to the Administrator of the NCCER Tower Crane Endorsed AAC. Administrator verifies Application completeness, maintains a copy for the AAC’s file, and submits to NCCER within three (3) days.

Personal Data  ●  Please Type or Print Only  ●  Fill in Completely

Name (first, middle, last):

Social Security Number: ___-___-___

Home Phone: ___________________________ Cell Phone: ___________________________

Email: ___________________________

Address: ___________________________

City: ___________________________ State: ___________________________ Zip: ___________________________

Employer: ___________________________

Employer Address: ___________________________

City: ___________________________ State: ___________________________ Zip: ___________________________

Employer Phone: ___________________________ Fax: ___________________________

Check the appropriate crane type for which you are applying. (Check only one per application.)

- [ ] Luffer
- [ ] Self Erect
- [ ] Hammerhead

By signing this application, I verify that a medical professional has found me physically qualified to operate tower cranes per ASME B30.3, that I have passed a substance abuse test, and that I will continue to comply with the requirements.

I also acknowledge that I have received a copy of the Tower Crane Operator Certification Program Candidate Handbook. I further agree to the following conditions: a) to comply with the relevant provisions of the certification scheme, b) to make claims regarding certification only with respect to the scope for which certification has been granted, c) not to use the certification in such a manner as to bring the certification body into disrepute, and not to make any statement regarding the certification which the certification body may consider misleading or unauthorized, d) to discontinue the use of all claims to certification that contains any reference to the certification body or certification upon suspension or withdrawal of certification, and to return any certificates issued by the certification body, and e) not to use the certificate in a misleading manner.

In addition, I agree to abide by the conditions of certification and agree to inform the certifier of any changes affecting the status of the certification.

Applicant Signature ___________________________ Date (must match date of practical) ___________________________

Email to: CraneCertification@nccer.org (or) Fax to: 386-518-6255 (or)
Mail to: NCCER Crane Certification Program, 13614 Progress Boulevard, Alachua, FL 32615
Registration and Release Form

**Important:** Type or print legibly. To be entered in NCCER's Registry, you must complete and sign this Registration and Release form. This form must be maintained on file per NCCER Accreditation Guidelines. Any inaccuracies on this form may be reflected on credentials.

Accredited Organization Name: ____________________________________________________________

Name*: ________________________________

Social Security #/NCCER Card #: ________________________________

Job Title: __________________________________________________________

Address*: __________________________________________________________________________

City*: __________________ State*: __________________ Zip*: __________

Phone*: __________________ E-mail*: __________________

Optional Information:

Company/School Name: ________________________________________________________________

Company/School Address: _____________________________________________________________

City: __________________ State: __________________ Zip: _____________________________

Phone: ____________________________________________

I hereby authorize NCCER to verify information in my training and assessment records to Sponsor Representative/Primary Administrator upon request. I release and hold harmless NCCER for this verification process.

Furthermore, I agree to maintain the integrity of NCCER programs and the confidentiality of all testing materials. I acknowledge that I understand the following:

- I may not remove any testing materials or copy them in any form.
- I may not assist others or receive assistance during testing
- I may not use any materials or devices prohibited by NCCER or the accredited organization.
- I may not transmit test questions in any form during or after the test session.

Failure to uphold this responsibility may result in penalties imposed per NCCER Accreditation Guidelines.

Signature*: __________________________ Date: __________________

Parent/Guardian Signature: __________________________ Date: __________________

(Required if individual is under 18 years of age.)

*Required fields

**NOTE:** Reports containing trainee/participant information, including score sheets, training prescriptions, and transcripts, should **NOT** be distributed without properly documented release information from the trainee/participant.
Complete this form with as much detail as possible. ALL fields are required.

Operator Name: ____________________________________________________________

SS# / NCCER Card #: _____________________________________________________

Phone: _____________________________

Mailing Address: _________________________________________________________

City: _____________________________ State: _______________ Zip: ___________

Employer Name: _________________________________________________________

Employer Phone: _____________________________

Date of Accident: _________________________________________________________

Location of Accident/Incident: _______________________________________________

Crane Manufacturer: _________________________________________________________

Crane Model: _____________________________________________________________

Please provide a description of the accident/incident. Your description must include information regarding any property damage or injuries you or others sustained.

Estimate of any property damage $ ________________________________

Was OSHA contacted? □ Yes □ No

Fax to 386.518.6303, Attn: Crane Operator Certification Program
(or)
Email to CraneCertification@nccer.org