



**NATIONAL COMMISSION FOR THE
CERTIFICATION OF CRANE OPERATORS (NCCCO)**

CANDIDATE HANDBOOK

- **TOWER CRANE OPERATOR**



BOARD OF DIRECTORS

This candidate handbook contains complete program information as well as applications for the CCO Written and Practical Examinations you must pass to earn your CCO certification. This handbook reflects NCCCO's current policies at the time of publication; to be sure that you have the latest version of this book, see the Handbooks and Forms page on the NCCCO website. Please read this handbook carefully and retain it for reference throughout the certification process.

Do not discard this document.

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This NCCCO certification program is accredited by the American National Standards Institute (ANSI) to ISO 17024 (General Requirements for Bodies Operating Certification Systems of Persons).



ISO/IEC 17024
Personnel Certification Body
#0756

Mobile, Tower, Overhead,
Articulating, and Service Truck Crane
Operator, Digger Derrick Operator,
Signalperson, Rigger Level I and
Level II, Crane Inspector, and Lift
Director Programs Accredited

Dear NCCCO Candidate:

Welcome to the National Commission for the Certification of Crane Operators (NCCCO) tower crane operator certification program.

NCCCO is a nonprofit organization founded in 1995 to establish a fair and independent evaluation of crane operator knowledge and skills. Key to this industry-led effort has been the development of the CCO Written and Practical Examinations, first for mobile crane operators, and subsequently for tower, overhead, articulating, and service truck crane operators, boom truck operators, digger derrick operators, signalpersons, riggers, crane inspectors, and lift directors.

This nationally recognized and internationally accredited tower crane operator certification program is the culmination of a year of hard work by experts from the various industries and groups that use cranes, including construction, steel erection, utilities, crane rental, petrochemicals, pulp and paper, and operating engineers. The NCCCO Tower Crane Task Force that determined the content of the exams was made up of experts from all aspects of the crane industry—crane operators, training directors, managers, supervisors, manufacturers—who together represent many thousands of hours of crane-related experience. These volunteers gave freely of their time and expertise with the goal of improving the safety of all whose work brings them into contact with cranes and lifting equipment.

Until recently crane operator certification has been voluntary unless required by local jurisdictions or specific employers. However, in August 2010, the federal Occupational Safety and Health Administration (OSHA) enacted new national standards for cranes and derricks used in construction under 29 CFR 1926 Subpart CC. These new rules require that operators of most cranes above 2,000 lb. capacity when used in construction need to be either certified by an accredited crane operator testing organization such as NCCCO or qualified through an audited employer program. Section 1926.1427 of the new rule describes crane operator certification/qualification requirements. Option 1, which is anticipated to be the most commonly used, requires operators to be certified by a nationally accredited crane operator testing organization that tests operators through written and practical testing. Obtaining CCO certification from NCCCO meets all the requirements set forth by the new OSHA rule.

To ensure CCO examinations are—and remain—valid measurements of crane operators' proficiency, NCCCO teamed its exam development expertise with the task force's knowledge and experience. In addition to guiding the development of new examinations, NCCCO continually analyzes the performance of CCO exams and reports to the Exam Management Committees. To be able to provide fair and independent assessments, NCCCO does not conduct training, nor does it provide training materials.

NCCCO, as a third-party certification body, is fully committed to, and understands the importance of, delivering all certification activities on a foundation of impartiality. All policies and procedures are established in an objective manner and ultimately strive to achieve fairness throughout all activities. NCCCO prevents any conflicts of interest through detailed policies and procedures observed by staff, governing body representatives, and those involved in written and practical exam administration.

This Candidate Handbook has been prepared to provide you with comprehensive information about the CCO Written and Practical Examinations leading to certification for operating tower cranes. NCCCO recognizes the commitment you are about to make and will do everything it can to make your experience a positive and successful one. If, after reading this handbook, there is anything that you do not fully understand or need clarified, please call NCCCO at 703-560-2391 or e-mail info@nccco.org. NCCCO staff will guide you through any aspect of the program that you would like explained in more detail.

Thank you for your interest—and good luck with your efforts to become CCO certified!

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Introduction

TOWER CRANE OPERATOR

PROGRAM DESCRIPTION

The National Commission for the Certification of Crane Operators (NCCCO) is an independent, nonprofit organization formed in 1995 to set standards for fairly measuring the knowledge and proficiency required for the safe operation of cranes. NCCCO currently administers a nationwide program of certifications for crane operators and related trades, including riggers and signalpersons.

Based on extensive discussions with representatives from all segments of business and industry who recognize the impact of safety issues, NCCCO has identified the following potential benefits of operator certification:

- Fewer accidents, injuries, and fatalities
- Reduced risk of loss
- Assurance of operator's abilities
- Less property damage
- Improved safety records
- Enhanced public image of crane operators

All candidates are required to pass both the Written and Practical Examination(s) to be certified.

As detailed in this handbook, candidates may take the Practical Examination on the following tower crane types:

- Hammerhead
- Luffing jib
- Self-erecting

The initial certification period is for five years, after which operators are required to recertify. Periodic written examination is necessary to ensure that certificants' knowledge of industry standards, equipment, and safety practices keeps pace with changes in these areas. NCCCO's subject matter experts, working in conjunction with psychometric consultants, reviewed the speed of such change in the industry and researched other comparable certification and licensing programs before determining that this goal could be achieved by setting the examination interval at five years. Little, if any, additional benefits, it is believed, would accrue by more frequent testing. A practical (skills) examination is not required for recertification, as long as the certificant meets specified experience requirements.

CCO EXAMINATION DEVELOPMENT

The first step in the development of an objective test to measure what is required to operate cranes safely was a job task analysis. This study identified the knowledge and

skills necessary for safe crane operations. A representative number of crane operators then validated that the knowledge recommended by the experts was vital to safe operations. The study and survey were then used to generate the test blueprints and content specifications.

Development of the CCO *Tower Crane Operator Written Examination* involved a panel of crane operation content experts who worked with NCCCO staff to write and review all questions used in the examination. Each examination contains a unique combination of questions from the question bank. These questions are selected for the examination on the basis of the content areas, as defined by the test blueprints.

Similarly, the *Tower Crane Operator Practical Examination* was developed as a fair and objective assessment of the essential skills a crane operator needs to operate tower cranes safely.

These exams were developed over a one-year period by an NCCCO task force made up of experts from all aspects of the crane industry—crane operators, training directors, managers, supervisors, manufacturers—who together represent many thousands of hours of crane-related experience. This task force teamed its knowledge and experience with NCCCO's exam development expertise.

NCCCO guided the task force in establishing key elements of the program, including identifying essential skills, selecting tasks, standardizing test conditions, developing the scoring process, establishing reliability among tests, and creating flexible application and scheduling procedures.

In concert with the Tower Crane Task Force, NCCCO also designed the Practical Examiner Accreditation Program, whereby NCCCO trains and accredits CCO-certified crane operators to administer CCO Practical Examinations.

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Certification Policies

TOWER CRANE OPERATOR

ELIGIBILITY

To be eligible for certification, candidates must:

- Be at least 18 years of age
- Meet medical requirements
- Comply with NCCCO's Substance Abuse Policy
- Pass a Written Examination
- Pass a Practical Examination
- Comply with the Code of Ethics for Certified Crane Operators

EXPERIENCE

CCO certification exams are designed for operators who are trained and who currently work in crane operation.

PHYSICAL EVALUATION

Certified crane operators must continue to meet ASME B30 physical requirements throughout their certification period and attest to their agreement to this requirement in their applications.

In appropriate circumstances, means of compliance with ASME physical requirements may include, but are not limited to, a current Department of Transportation (DOT) Medical Examiner's Certificate.

CCO WRITTEN EXAMINATIONS

The Written Examination consists of a single examination in tower crane operation. This examination has 55 multiple-choice questions. Candidates are allowed 60 minutes to complete the Tower Crane Operator Written Examination.

Written exams may be taken as either paper/pencil tests (PPT), see page 7 for details, or computer-based tests (CBT), see page 9 for details.

CCO PRACTICAL EXAMINATIONS

The Practical Examination demonstrates crane operation proficiency and may be taken on any one of the following tower crane types:

- Hammerhead
- Luffing jib
- Self-erecting

CCO CERTIFICATION TIME FRAMES

Candidates must pass both Written and Practical Examinations to be certified for a five-year period. The Written and Practical Exams may be taken in either order. Candidates have 12 months from the time they pass their first Written or Practical Exam for each crane designation in which to pass the corresponding (Written or Practical) Exam.

Any tests passed within a 12-month period count towards certification. For example, a candidate who fails the Tower Crane Operator Written Exam in January 2015 but passes the Tower Crane Operator Practical Exam in June 2015 has until the end of June 2016 to retake (and pass) the Tower Crane Operator Written Exam.

If a certified operator subsequently becomes certified in an additional operator designation by taking the appropriate written and practical exams, the certification period for the additional designation expires at the same time his/her original certification (i.e., all operator designations expire on the same date, regardless of when in the five-year certification period the candidate passed them). If the new designation is added within the final 24 months of his/her certification period, the certificant is exempt from recertifying for the new designation after five years; after that, however, certificants must recertify for all designations during the 12 months prior to their certifications' expiration date. This ensures that all of the certificant's operator designations maintain the same expiration date.

Candidates for certification or recertification may petition for an extension of NCCCO's standard timeline(s). NCCCO staff shall have the discretion to make the initial determination of whether a requested extension should be granted. Petitions for an extension of time are generally denied absent a showing of extraordinary circumstances. Denials of such petitions may be appealed to the Appeals Committee.

RECERTIFICATION REQUIREMENTS

CCO certification is valid for five years. ***Recertification candidates must complete all of their recertification requirements during the 12 months prior to their certification's expiration date.*** This includes:

- Passing the Recertification Written Examination
- Continuing to meet medical requirements
- Compliance with NCCCO's Substance Abuse Policy

- Compliance with the Code of Ethics for Certified Crane Operators

Candidates who can attest to at least 1,000 hours crane-related experience during their period of certification do not need to take the Practical Exam to recertify. *Crane-related experience* is defined as: operating, maintaining, inspecting, or training on cranes.

Candidates who do need to take the Practical Exam for any reason, however, must do so before their certification expires. ***There is no grace period after their certification's expiration date.*** Candidates whose certification has lapsed must take the full Written and Practical Examinations over to be certified again.

The Tower Crane Operator Recertification Examination consists of 30 multiple-choice questions with a time limit of 45 minutes.

Recertification candidates are allowed two attempts to pass the Tower Crane Operator Recertification Written Exam before their certification expires. Candidates who are unsuccessful after two attempts must take and pass the regular Tower Crane Operator Written Exam.

Recertification candidates may take their Recertification Written Examination up to one year prior to their certification's date of expiration. Regardless of the date of the recertification examination within that one-year period, the new five-year certification period begins from the date of expiration of the candidate's initial certification.

[Note: Candidates who recertify more than 12 months prior to their expiration date will have their new certification period begin immediately, not from the end of their current certification period.]

Recertification Exams are available at regularly scheduled paper/pencil test administrations as well as via computer-based testing. Candidates wishing to recertify should contact the Test Site Coordinator who set up their initial certification. Candidates whose employment circumstances have changed should ask their new employer to schedule a test administration. Candidates may also locate open paper/pencil Written Exam Test Sites at www.nccco.org/testsites or apply online for paper/pencil or computer-based tests sites at www.nccco.org.

CODE OF ETHICS FOR CERTIFIED CRANE OPERATORS

Certified crane operators must comply with the Code of Ethics for Certified Crane Operators during their certification, as defined below.

In my occupation, I will conduct myself in a manner:

- So as to place the safety and welfare of others associated with my work above all other considerations;*
- So as to protect and preserve nearby general public property and the environment; and*
- So as to be free of bias with regard to religion, ethnicity, gender, age, national origin, and disability.*

Furthermore, in connection with my work and in my dealings with NCCCO, I will:

- Make management and appropriate personnel aware promptly if I have any safety concerns relating to the work that I am performing or with which I am involved;*
- Not knowingly violate any safety-related regulations, warnings, or instructions set forth by OSHA, recognized safety standards, prevailing jurisdictions, or equipment manufacturers; and,*
- Not mislead, misrepresent or knowingly deceive others concerning my experience or the capabilities of myself or the equipment I am operating or with which I am working.*

In addition, in my dealings with NCCCO, I will:

- Provide accurate and complete information and abide by NCCCO's policies and procedures, including this Code of Ethics, as they may be updated from time to time;*
- Not act dishonestly or unfairly in order to gain an advantage, or to provide another with an advantage, in connection with any dealings with NCCCO;*
- Cooperate fully and completely with any administrative inquiries or investigations by NCCCO; and,*
- Not misrepresent or misuse any NCCCO card, or the NCCCO or CCO acronyms and logos, or any registered trademark or other intellectual property of NCCCO; and I understand that I must return the card to NCCCO immediately if required to do so.*

CCO-certified personnel who intentionally or knowingly violate any provision of the Code of Ethics will be subject to action by a peer review panel, the Ethics and Discipline Committee, which may result in suspension or revocation of certification.

DISCIPLINARY POLICY

NCCCO's Ethics and Discipline Committee is responsible for establishing and implementing standards of conduct, such as ethical standards and policies and procedures for

disciplinary action. Grounds for revocation of certification status shall include, but not be limited to, the following:

1. Period of certification exceeded without renewal
2. Evidence of falsification of any information on any documents submitted to NCCCO or its agents
3. Evidence of non-compliance with NCCCO's Substance Abuse Policy
4. Evidence of culpability in an accident during certification period
5. Evidence of non-compliance with ASME B30 medical requirements
6. Evidence of non-compliance with the Code of Ethics

NCCCO has established policies and procedures to address alleged violations of the Code of Ethics fairly and consistently. The complaints procedures have been designed to ensure that only valid and actionable complaints are investigated and considered. These procedures also ensure that all parties involved in the complaint have an opportunity to document circumstances warranting the complaint and to respond to the complaint.

NCCCO has a two-tier process to ensure that issues regarding the practice and conduct of certified crane operators are fairly and reasonably investigated and determined, and that the public is protected against unprofessional and unethical conduct by certificants.

Complaints against certificants are initially investigated by NCCCO's Manager of Test Integrity, who reports to NCCCO's Ethics and Discipline Committee. If the complaint is considered actionable, the Ethics and Discipline Committee informs both the certificant and the complainant of the official opening of the investigation. Following the investigation of the complaint, the Ethics and Discipline Committee informs the certificant and the complainant of its decision.

If a sanction is imposed, the certificant may request an appeal of the decision to the NCCCO Board of Directors. Appeals should be addressed to:

Chief Executive Officer
National Commission for the Certification of Crane
Operators (NCCCO)
2750 Prosperity Avenue, Suite 505
Fairfax, VA 22031

The decision of the NCCCO Board of Directors is final.

SUBSTANCE ABUSE POLICY

It is the policy of NCCCO that crane operators shall not use any prescribed or over-the-counter substances that would

impair their ability to operate cranes safely. This includes illegal drugs, controlled substances (including trace amounts), look-alike drugs, designer drugs, or any other substance which may have an effect on the human body of being a narcotic, depressant, stimulant, or hallucinogen.

An exception to this rule is that an operator may use such a substance or drug if it is prescribed by a licensed medical practitioner who is familiar with the operator's medical history and all assigned duties and who has advised the operator that the prescribed substance or drug will not adversely affect the operator's ability to operate a tower crane safely.

CCO-certified crane operators shall comply with the substance abuse testing provisions of ASME B30.3. It is a condition of certification that crane operators certified by NCCCO attest to their compliance with this Substance Abuse Policy. Non-compliance with this policy automatically revokes a candidate's certification status.

CERTIFICATION CARDS

Certified operators receive a laminated photo ID card at no cost when they certify for the first time and when they complete the requirements for recertification.

Replacement cards, cards showing certification in an additional designation, or updated cards for candidates who retake and pass a designation they previously failed may be obtained from NCCCO at a cost of \$25. Updated or replacement cards can be ordered online at: www.nccco.org/newcard.

CHANGE OF ADDRESS

Certificants who change their address must notify NCCCO as soon as possible. Failure to do so may cause important updates on NCCCO programs to be missed that could affect a certificant's stature.

Changes of address should be sent to NCCCO. They must be in writing but can be sent via letter, fax, or email. A form for this purpose is provided in this handbook.

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Written Examination Process

TOWER CRANE OPERATOR

APPLICATION PROCESS TO TAKE THE WRITTEN EXAMINATION

Tower Crane Operator written exams and recertification exams may be taken either as paper/pencil tests (PPT) at an approved NCCCO written exam test site or as computer-based tests (CBT) at approximately 300 PSI test centers across the country. The content of both test formats is identical; see the appropriate sections below for instructions on how to apply for either PPT or CBT exams.

Candidates Requesting Testing Accommodations

Arrangements for persons with disabilities will be provided upon request, in conformance with the Americans with Disabilities Act (ADA).

Professional documentation in support of a request for accommodation must be submitted to NCCCO no later than four weeks prior to the scheduled test date. For further information about testing accommodations, see the complete NCCCO Testing Accommodations Policy at: www.nccco.org/accommodations.

PAPER/PENCIL TESTING (PPT) OPTION

Candidates desiring to sit for paper/pencil written exam(s) should visit www.nccco.org/testsites to see a schedule of upcoming Test Dates and Locations and then submit a completed Candidate Application form with the appropriate documentation as directed on the form. Applications are due two weeks prior to the scheduled examination date. PPT application deadline examples are shown on page 8. Information about the specific locations of the Test Sites will be available approximately one to three months prior to the examination. Candidates eligible to sit for the examination will receive an admission letter approximately one week before the scheduled test administration date.

Submission of Application

To apply for paper/pencil exams, use the Candidate Application form at the back of this handbook. The Candidate Application with the appropriate fees, as well as any correspondence and requests for information concerning the administration of CCO examinations, should be sent to:

NCCCO—Testing Services Department
1960 Bayshore Blvd.
Dunedin, Florida 34698
Phone: 727-449-8525
Fax: 727-461-2746

Contact the Test Site Coordinator to confirm whether the application should be sent to the Test Site Coordinator or directly to NCCCO. Check the application to ensure that all information provided is accurate and complete. In addition to the completed application, make sure that the appropriate fees are enclosed.

Candidates may also submit applications and payment online:

- Paper/pencil tests (PPT): www.nccco.org/ppt-apps
- Computer-based tests (CBT): www.nccco.org/cbt-apps

Candidates must follow the directions carefully when filling in the required information. Incomplete applications, incorrect payment, and/or inaccurate documentation will delay the processing and incur additional fees. This could result in *NOT* being able to sit for the examination(s).

Deadlines

Please note that all deadlines are UPON RECEIPT deadlines. Candidates and Test Site Coordinators are solely responsible for making sure that completed and accurate applications reach NCCCO by the stated deadlines.

Examination Fees

For paper/pencil tests (PPT), the appropriate Written Exam fees must be enclosed with the Candidate Application. Checks, money orders, or credit cards (VISA, MasterCard, or American Express) may be used; do not send cash. Please include payment in the envelope with all the other application materials. *All returned checks are subject to a \$30 fee.*

PPT Written Exam/Retest Fees:

- Tower Crane Operator Written Exam..... \$165
- Tower Crane Operator Written Exam..... \$50
(For current CCO-certified mobile crane operators, or new candidates who are registering for mobile crane operator exams at same time)
- Updated/replacement certification card \$25

The same fees apply for retest examinations.

PPT Recertification Written Exam/Retest Fees:

- Tower Crane Operator Written Exam..... \$150
- Tower Crane Operator Written Exam..... \$50
(For current CCO-certified mobile crane operators, or new candidates who are registering for mobile crane operator exams at same time)
- Updated/replacement certification card \$25

The same fees apply for retest examinations.

Other Fees:

An additional \$50 late fee will be charged if the application is late.

An additional \$25 will be charged if a candidate:

- Wishes to reschedule without a valid reason (see Emergency Cancellations or Withdrawals)
- Needs a replacement certification card or score report

An additional \$30 fee will be charged if:

- An application form is incomplete
- Full payment is not received or a check is returned
- A credit card cannot be processed for any reason
- A candidate wants to add to (or change) the exams he/she plans to take after scheduling has been completed (in addition to the exam fee)

All application materials must be received at NCCCO’s office according to the sample test schedule outlined under “Application Deadlines.”

Applications received after the main application deadline, but at least four business days prior to the exam administration deadline, may be accepted for an additional \$50 late fee. For example, for a test administration on a Saturday, late applications that arrive at NCCCO’s office by 5 p.m. (ET) on the Monday evening prior will be accepted. Candidate Applications that arrive after that time cannot be accepted.

Walk-in candidates cannot be accepted under any circumstances.

Rescheduling, Cancellations, and Withdrawals

Should a candidate be unable to sit for the examination, NCCCO **must receive notification in writing no later than seven business days prior to the examination date.** Candidate fees will be held up to one year. When the candidate reschedules, he/she will need to pay an additional \$25 rescheduling fee.

When the candidate is ready to reschedule his/her Written Examination, he/she **must** notify NCCCO and submit the necessary documentation and fees by the deadline for the rescheduled test date.

Candidates withdrawing or canceling after the deadline or not sitting for the examination will forfeit all application fees and will NOT receive a refund.

Emergency Cancellations or Withdrawals

ONLY the following situations will be accepted as grounds for emergency cancellations or withdrawals:

- **Called to work**—supporting documentation required: *letter from employer*
- **Candidate illness**—supporting documentation required: *doctor’s note*
- **Family death**—supporting documentation required: *death certificate or obituary notice*

Requests for medical and personal emergency withdrawals are handled by NCCCO’s Testing Services Department upon submission of a letter describing the situation. Full name, address, and Candidate ID/CCO Certification number must be included along with the scheduled test date, site number, and supporting documentation indicated above.

NCCCO MUST receive written notification within seven business days after the scheduled examination date or all application fees will be forfeited. Candidates will, however, be allowed to reschedule for a future examination administration.

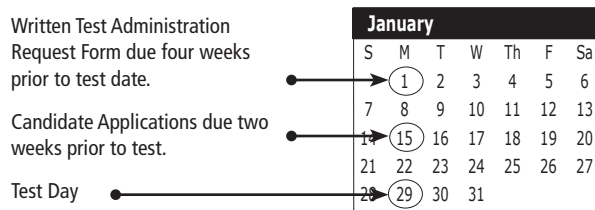
Candidates will NOT receive a refund if they decide they no longer wish to take the test.

Test Administration Schedule for CCO Examinations

Paper/pencil CCO Written Examinations are available for administration on demand with at least four weeks’ notice.

Application Deadlines

Tests can be administered at any time as long as the application deadlines are met. Sample deadlines shown are for a test date of January 29.



Admission Letters

For paper/pencil exams, approximately one week before the scheduled test date, registered and eligible candidates approved to take CCO Written Examination(s) will receive an admission letter by mail. The admission letter contains information regarding the test center address, the reporting time, the examination(s) the candidate is registered for, and the materials candidates need to bring with them on

the day of the administration. This admission letter should be presented at the Test Site to gain admittance to the examination(s).

Identification at the Test Site

Candidates must bring valid photo identification to the test site on the day of the test administration. Candidates will be required to sign the test site roster upon entry to the testing area.

Acceptable forms of photo identification for paper/pencil tests are a current:

- Passport
- Government-issued driver's license
- Military identification card
- U.S. Government-issued alien registration card
- Work identification

NOTE: Candidates without appropriate identification documents will NOT be admitted to take the CCO Written Examination(s) and all fees will be forfeited.

Materials to Bring to the Test Site

Each candidate must bring the following items to the Test Site:

- Photo identification
- Admission letter for the specific test date (recommended)
- Two sharpened #2 pencils (to complete the examination answer sheet)
- A good eraser

NOTE: No books, scratch paper, calculators, reference materials, beepers, cellular phones, or other personal items will be allowed in the examination room.

Score Reporting

Paper/pencil CCO Written Examinations are electronically scored at NCCCO's facilities. For this reason, it is important to complete the answer sheet according to the instructions provided by the Chief Examiner on the day of the exam. Candidates will receive credit only for answers recorded on the scannable answer sheet. ***Answers marked in the test booklet(s) will NOT be counted toward a candidate's score.***

All candidates will receive a score report of their performance. Examination results are mailed to candidates approximately 12 business days after the examination administration.

COMPUTER-BASED TESTING (CBT) OPTION

Candidates desiring to take their written exam(s) using the computer-based testing (CBT) option should visit www.nccco.org and click on the Computer-Based Testing link under Test Dates and Locations (www.nccco.org/faq#CBT). This page includes links to a directory of approximately 300 PSI locations throughout the U.S. as well as the online application form.

Online applications may be completed and submitted at any time. Candidates should apply to take CBT exam(s) as soon as possible, but no later than five business days before their preferred exam date. Please note that site availability is not guaranteed on the preferred exam date or location, and availability can only be confirmed when scheduling the appointment.

After the candidate completes and submits the online application (with payment), the application will be processed within two business days. Candidates authorized for testing will receive a scheduling authorization email from PSI with specific instructions on how to schedule an examination appointment. For the fastest and most convenient test scheduling process, PSI recommends that candidates use the online scheduling service at www.goAMP.com. Candidates follow the onscreen step-by-step instructions to register for their examination(s).

Candidates may also call the number provided in the email to schedule the test(s) with PSI; the PSI customer service representative will do his/her best to select a test date and location convenient for the candidate. PSI will send an appointment confirmation email within 24 hours. The candidate must then go to the selected test center at the scheduled date and time.

CBT Examination Fees

Candidates must pay the appropriate CBT Written Exam fees when they apply online. A credit card (VISA, MasterCard, or American Express) must be used to pay online. CBT exam payments are valid for one year. If the candidate does not schedule and test within 12 months, he/she forfeits the fees. This does not affect the deadline(s) for certification or recertification as specified on page 3.

CBT Written Exam/Retest Fees:

- Tower Crane Operator Written Exam..... \$200
- Tower Crane Operator Written Exam..... \$85
(For current CCO-certified mobile crane operators, or new candidates who are registering for mobile crane operator exams at same time)

- Updated/replacement certification card \$25

The same fees apply for retest examinations.

CBT Recertification Written Exam/Retest Fees:

- Tower Crane Operator Written Exam..... \$180
- Tower Crane Operator Written Exam..... \$80
(For current CCO-certified mobile crane operators, or new candidates who are registering for mobile crane operator exams at same time)
- Updated/replacement certification card \$25

Other Fees:

An additional \$25 will be charged if a candidate:

- Needs a replacement certification card or score report

An additional \$30 fee will be charged if:

- An application form is incomplete (e.g., name misspelled or does not match name on valid photo ID)
- A credit card cannot be processed for any reason
- Any changes are requested after submitting the application

NOTE: After the candidate has scheduled his/her appointment with PSI, no changes can be made (adding exams, changing exams, etc.). If the name for the scheduled appointment does not match that on the photo ID presented, all fees will be forfeited.

Rescheduling, Cancellation, or Withdrawal

CBT candidates may cancel and reschedule an examination appointment without forfeiting their fees if their cancellation notice is received at least 24 hours before the scheduled examination date.

Candidates will NOT receive a refund if they no longer wish to take the test.

To reschedule an exam appointment, candidates may log into their PSI account or call PSI at 888-519-9901 to speak with PSI Candidates Services Department. A voice-mail message is not an acceptable form of cancellation.

Missed Appointment or Late Cancellation

A candidate's registration will be invalidated and the examination fee(s) will be forfeited if he/she:

- Does not cancel the appointment more than 24 hours before the scheduled examination date
- Does not appear for his/her examination appointment

- Arrives after examination start time
- Does not present proper identification

Identification at the Test Site

Candidates must bring photo identification to the test site on the day of the test administration. Candidates will be required to sign the test site roster upon entry to the testing area.

Acceptable forms of photo identification for computer-based tests are a current:

- Passport
- U.S. government- or state-issued driver's license
- Military identification card
- U.S. government-issued alien registration card

NOTE: Candidates without appropriate identification documents will NOT be admitted to take the CCO Written Examination(s) and all fees will be forfeited. Work identification is NOT acceptable for computer-based testing centers.

Materials to Bring to the Test Site

Each candidate must bring the following items to the test site:

- Valid photo identification
- Confirmation email from PSI (recommended)

NOTE: No books, scratch paper, calculators, reference materials, beepers, cellular phones, or other personal items will be allowed in the examination room.

Score Reporting

CBT candidates receive their test results immediately following their exams and should retain these score reports for their records.

TEST SITE INFORMATION (BOTH PPT AND CBT)

Test Security

For the purposes of test security, candidates who sit for CCO examination(s) acknowledge that they understand the following:

- The examination is the exclusive property of NCCCO.
- The examination and the questions contained therein are protected by federal copyright law. No part of the examination(s) may be copied or reproduced in part or whole by any means whatsoever, including memorization.

- Theft or attempted theft of an examination booklet or any of its pages is punishable as a felony.
- While at the examination site, candidates are considered professionals and shall be treated as such. In turn, candidates must conduct themselves in a professional manner at all times. While at the site, they shall not use words or take actions that are vulgar, obscene, libelous, or that would denigrate the staff or other candidates.
- No conversing or any other form of communication among the candidates is permitted once they enter the examination area.
- No smoking, eating, or drinking is allowed at the examination site.
- No guests, visitors, or family members are allowed in the testing room or reception areas.
- Candidate participation in any irregularity during the examination, such as giving or obtaining unauthorized information or aid, as evidenced by an observation or subsequent statistical analysis, may be sufficient cause to terminate participation, invalidate the results of the examination, or other appropriate remedy.
- Candidates verify that they have successfully met the physical/medical requirements and are eligible to take this examination. If at any time it is confirmed that a candidate has not met all the requirements, the candidate will no longer be eligible for certification.
- A candidate's signature on the answer sheet for the administration of the examination confirms that the candidate has read and understands the above statements.

Candidate Question Comment Forms

Candidates may comment on the examination(s) as a whole or on specific items within an examination by writing their comments on the Candidate Question Comment Form. Written comments should reference the question number as well as the site code and the test date and should accompany the examination. Examination comments are reviewed by NCCCO content experts on a regular basis.

Computer-based testing candidates may provide comments for any question by clicking on the "Comments" button to the left of the Time button. This opens a dialogue box where candidates may enter comments.

NOTE: Only comments completed on the Candidate Question Comment Form or provided during the computer-based examination at the Test Site will be considered for review.

TEST SCORING INFORMATION (PPT AND CBT)

CCO Written Examinations are criterion-referenced examinations; i.e., the passing score is set beforehand, and candidate performance on the examination is not compared to the performance of others taking the examination. In a criterion-referenced examination, a candidate must obtain a score equal to or higher than a predetermined passing score to pass the test. The passing scores represent absolute standards and are determined by panels of NCCCO content experts using a psychometrically accepted standard-setting methodology.

In reporting the examination results to candidates, statistical procedures are used to convert raw scores (i.e., the number of test questions answered correctly) to scaled scores, which are set for all administrations of the examination(s). The scaled score is not a number-answered-correctly score.

Candidate results are reported on a scale ranging from zero to 100 points, with a score of **70** representing the minimum passing score for this test. Written exam score reports include a strength and weakness report by content domain.

Candidate scores are never reported by telephone, email, or facsimile.

Hand Score Requests

Candidates not passing exam(s) may request from NCCCO a hand scoring of their answer sheet(s), provided their request is made in writing within three months of the test date. Hand-scoring requests must be accompanied by a processing fee of \$25 for one test score or \$50 for two or more failed test scores per test administration. Requests should be mailed to:

NCCCO—Testing Services Department
 1960 Bayshore Blvd.
 Dunedin, Florida 34698
 Phone: (727) 449-8525
 Fax (727) 461-2746

In the event that the hand scoring of a failing candidate's answer sheet results in a passing score, the hand-scoring fee will be refunded in full.

RETAKE THE EXAMINATION(S)

Candidates who fail an examination(s) may retake the examination(s) by reapplying and paying all corresponding fees. CBT candidates may reapply any time after taking their exam(s); however, the new authorization email will be delayed pending the receipt of the exam

results from PSI, which normally takes approximately 72 hours.

INFORMATION RELEASE POLICY

NCCCO releases information pertaining to individuals who have successfully passed one or more CCO examinations according to its Information Release Policy (see page 37).



Written Examination Outline

TOWER CRANE OPERATOR

The Tower Crane Written Examination tests the following knowledge areas relating to the operation of tower cranes.

Domain 1: Site

- Approximately 10% of test

Domain 2: Erection, Climbing, and Dismantling

- Approximately 25% of test

Domain 3: Operations

- Approximately 50% of test

Domain 4: Technical Knowledge

- Approximately 15% of test

DOMAIN 1: SITE

Approximately 10% of test

1. Know how to assess suitability of the supporting surface.*
2. Know how to determine if there is adequate room for outriggers and tail swing.*
3. Know how to locate and identify site hazards and restrictions such as electric power lines, air-rights, or other hazardous systems and public access areas.
4. Be familiar with basic requirements for power sources, fusing, disconnects, lightning protection, and grounding.
5. Be familiar with the necessity to protect the crane's foundation.

** 1 and 2 refer to self-erecting tower cranes only*

DOMAIN 2: ERECTION, CLIMBING, AND DISMANTLING

Approximately 25% of test

1. Know proper erection, climbing, and dismantling procedures specified by the manufacturer in the operator's manual.
2. Know general notes and warnings to be applied during climbing procedures.
3. Know the maximum allowable wind speeds during erection, climbing, dismantling, and operation.
4. Understand the proper procedures for bolting and/or pinning connections.
5. Understand the maximum freestanding height allowed.
6. Understand the proper counterweight configurations and/or central ballast requirements.

7. Understand the proper crane configuration.
8. Be familiar with standard minimum and maximum tie-in spacing and maximum tower height above tie-ins.
9. Be familiar with proper installation of internal climbing collars, support beams, wedges, and climbing apparatus.
10. Be familiar with proper installation of top climbing units and tie-in collars, struts, and lower braces.
11. Know proper position of top climbing unit after climbing procedures in accordance with manufacturer's specifications.
12. Be familiar with proper travel rail installation and maintenance.

DOMAIN 3: OPERATIONS

Approximately 50% of test

1. Know how to inspect the crane for proper condition and complete required records.
2. Know how and when to communicate with management, crew, and signalperson.
3. Know standard method hand signals as specified by OSHA.
4. Know how to shut down and secure the crane properly when leaving it unattended.
5. Know the manufacturer's recommendations for operating in various weather conditions.
6. Know how to verify the weight of the load and the rigging.
7. Understand basic load rigging procedures.
8. Know how to perform basic maintenance.
9. Know the crane operator responsibilities contained in ASME B30.3 and specified by OSHA.
10. Know how to use operator aids and limiting devices.
11. Know the proper procedures for operating safely under special conditions—e.g., traveling with suspended loads; approaching two blocking; operating near electric power lines; lifting loads from beneath the surface of the water; handling loads out of the operator's vision ("in the blind"); and using suspended personnel platforms.
12. Know the proper procedures for load control during the use of handheld tag lines.

13. Know emergency response procedures—e.g., fire control, electric power line contact, and control malfunction.
14. Understand federal, state, and local regulations and ASME B30.3 regulations pertaining to the operation of the crane.
15. Know how to review planned crane operations and requirements with site supervision.
16. Understand tower crane load charts.

DOMAIN 4: TECHNICAL KNOWLEDGE

Approximately 15% of test

1. Understand the function, limitations, and characteristics of the crane.
2. Know the basic maintenance, inspection, and replacement criteria for tower crane wire ropes.
3. Know basic tower crane nomenclature.
4. Understand basic machine power flow systems—e.g., mechanical, electrical, hydraulic, combination.
5. Understand boom, jib, counter jib, and counterweight configurations.
6. Know the out-of-plumb tolerance for the tower crane
7. Have a basic understanding of metric units and U.S. customary units.
8. Understand basic safety procedures—e.g., lock out, tag out, fall protection.



Sample Questions

TOWER CRANE OPERATOR

The following are sample test questions typical of the style and content of the questions used in CCO Written Examinations.

1. An overhead power line is ALWAYS considered to be:
 - a. Energized until the power company has verified that it is not energized
 - b. Safe as long as the load, hoist rope, and structure are kept at least ten feet away
 - c. De-energized if there is not power on the job site
 - d. De-energized if the line has a safety cover over it.
2. Maintenance personnel are permitted to operate the crane only when:
 - a. It is a light load
 - b. The operator is not available
 - c. Performing their duties
 - d. Winds are less than 20 mph
3. According to ASME B30.3, who should be present when climbing or telescoping operations take place?
 - a. Supervisor
 - b. Field tech
 - c. Operator
 - d. Manufacturer's representative
4. According to OSHA 1926 Subpart CC, when a wire rope bridle is used to connect the personnel platform to the load line, each bridle leg shall be connected to a:
 - a. Master link
 - b. Cable clamp
 - c. Pelican hook
 - d. Becket pin
5. According to OSHA 1926 Subpart CC, what shall be provided at both ends of travel of the trolley?
 - a. Buffers
 - b. Warning lights
 - c. Paint marks
 - d. Trolley basket
6. All controls shall be tested by the operator:
 - a. Every 100 hours of running time
 - b. At the start of a new shift
 - c. After any critical lift
 - d. After erection only

B	6
A	5
A	4
C	3
C	2
A	1
Answer #	Question #



Reference List

TOWER CRANE OPERATOR

The following reference materials are used by NCCCO's Examination Committee to verify the accuracy of CCO test questions.

Candidates are strongly advised to become familiar with manufacturers' load charts in preparing for CCO certification examinations. (Prices shown current at press time.)

**ASME, B30.3 (2012)
TOWER CRANES** **\$55.00**

And successive addenda

Order by Internet: <http://catalog.asme.org/>

Order by Mail:

American Society of Mechanical Engineers
22 Law Drive, Box 2900
Fairfield, NJ 07007
ph: 800-843-2763; fax: 201-882-1717

Payments accepted: Check, VISA, MasterCard, American Express, Discover, Diner's Club

**OCCUPATIONAL SAFETY AND HEALTH
ADMINISTRATION, U.S. DEPARTMENT OF LABOR
CODE OF FEDERAL REGULATIONS, PART 1926
SUBPART CC—CRANES AND DERRICKS IN
CONSTRUCTION; SUBPART R—STEEL ERECTION;
AND PART 1926.251—RIGGING EQUIPMENT**

Order by Internet: <http://www.osha.gov/>

**NCCCO TOWER CRANE REFERENCE
MANUAL** **\$29.50**

Order by Internet: <http://www.nccco.org/store/>

**IPT'S CRANE AND RIGGING TRAINING
MANUAL (2005)** **\$34.00**
+ S&H \$10.00

Order by Internet: <http://www.iptbooks.com/>

Order by Mail:

IPT Publishing and Training Ltd.
P.O. Box 9590
Edmonton, Alberta, T6E 5X2 Canada
ph: 780-962-4548; fax: 780-962-4819

Payments accepted: VISA, MasterCard, American Express, check, money order

BOB'S RIGGING & CRANE HANDBOOK
Desk size: \$24.00
Pocket Size: \$13.00

Order by Internet: <http://www.donpellow.com/>

Order by Mail:

Pellow Engineering Services
406 West 50th South
Kansas City, MO 64112
ph: 877-473-5569; fax: 816-931-4113

Payments accepted: VISA, MasterCard, check, money order



Practical Examination Process

TOWER CRANE OPERATOR

SKILLS TESTED

The CCO Tower Crane Operator Practical Exam can be taken on any one of the following types:

- Hammerhead
- Luffing jib
- Self-erecting

The Practical Examination is comprised of three main tasks that increase progressively in the skill level tested. Skills tested are: trolley travel, hoisting, swinging, and combination (multifunction) operations. Crane operation with load and without load is required.

NCCCO provides a Test Site Layout (CAD) for the Practical Examination for each type of tower crane to ensure the examination remains standardized for all candidates, wherever and whenever they may test.

SCHEDULING A TEST

Candidates for the Practical Examination should contact their Test Site Coordinator to determine the date of the next scheduled Practical Exam. Alternatively, candidates may visit NCCCO's website at www.nccco.org for a listing of upcoming open practical Test Sites.

TEST DAY

Candidates must report to the Test Site at the scheduled time. *All candidates shall comply with Test Site requirements concerning personal protective equipment (PPE), which at a minimum shall meet OSHA requirements.*

PRACTICAL SCORING

Candidate performance on the Practical Examination is recorded by Practical Examiners accredited by NCCCO. Examiner requirements include meeting NCCCO requirements for certification, passing the Written and Practical Exams, and successfully completing an accreditation workshop.

The testing procedure has been developed to provide the highest degree of standardization and reliability. The Examiner's task is primarily to record the performance of the candidate.

Candidates can lose points either through operational errors or exceeding established optimum time limits. The scoring of candidates' performance is done off site at NCCCO's facilities.

PRACTICAL SCORE REPORTING

All candidates receive score reports of their performance. Examination results are mailed to candidates approximately 12 business days after the receipt of Practical Examination score sheets by NCCCO.

Please note that while Practical Examiners are encouraged to expedite score sheets after each test administration, they may batch score sheets from several test administrations over a number of days. This means that candidates may receive their score reports from NCCCO more than three weeks after their test administration.

Both the Practical Examination and the scoring system have been validated and verified by NCCCO's pilot testing program. A score of **70** represents the minimum passing score for the Tower Crane Operator Practical Examination.

PRACTICAL EXAMINATION FEES

The appropriate fee must be submitted with the candidate's application through the Test Site Coordinator.

- Practical Examination candidate fee: \$60
- Current CCO-certified Mobile Crane Operators, or new candidates registering for the Mobile Crane Operator Exams at the same time: \$50

The same fees apply for retest examinations.

PRACTICAL HAND SCORE REQUESTS

Candidates not passing the examination(s) may request from NCCCO hand scoring of their answer sheet(s), provided the request is made in writing within three months of the test date. Hand scored practical exam reports include details of a candidate's performance on each task. Requests must be accompanied by a processing fee of \$25 for each test requested. Requests should be mailed to:

NCCCO—Testing Services Department
1960 Bayshore Blvd.
Dunedin, Florida 34698
Phone: (727) 449-8525
Fax (727) 461-2746

In the event that the hand scoring of a failing candidate's answer sheet results in a passing score, the hand-scoring fee will be refunded in full.

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Practical Examination Outline

TOWER CRANE OPERATOR

The following is an outline of the practical testing procedure, as provided to candidates at the time of testing.

CANDIDATE INFORMATION AND INSTRUCTIONS

The following sections describe the specific tasks that you will be performing when taking the Practical Examination. It is important that you understand these instructions. If there is anything you do not understand, please request clarification from the Examiner.

TASKS

The Practical Exam tasks are:

- *Task: Pre-Operational (Shift) Inspection*
- *Task 1: Place Load Hook and Chain in Stop Circle*
- *Task 2: Place Test Weight in Load Circle*
- *Task 3: Negotiate Zigzag Corridor with Load*
- *Task 4: Safe Securing Procedures*

There is also a Pre-Test Briefing, a Pre-Test Familiarization Period, and a Pre-Task Familiarization Period (prior to the Load Circle task) with a load. You will be required to complete all phases of the test in sequence.

The Test Site Coordinator is responsible for setting the testing schedule. If you are familiar with the operation of the test crane, you may elect to test first to allow other candidates time to review the operator's manuals and load charts. Otherwise, selection shall be by random drawing or by assignment of the Test Site Coordinator.

During the Practical Examination, you are under the direction of the Examiner and must follow the Examiner's directions at all times.

Once you have completed all of the tests you are taking, you must leave the testing area. Only personnel involved in the administration of the test are allowed in the test area.

TIME LIMITS

An *optimum* time limit has been set for all tasks and is stated as part of the task descriptions. If the task is completed within this time period, you receive no time penalty.

Once you exceed this time limit, you will lose points on a gradual basis. If you take one and a half times as long as the optimum time, you will have lost all the points allotted to that particular task. At two times the optimum time the Examiner may end the task and move on to the next task.

PRE-TEST BRIEFING

While you are waiting to take your test, you will have sufficient time to read this description of the tasks to be performed and review the operator's manual and load chart for the crane you will operate. In addition, you will be informed of the make and model of the crane, the load hook height, jib length, and the weight of the test load. You will also watch a short video showing all the tasks you will be required to perform during the examination.

Note that:

- The crane's LMI system (if the crane is so equipped) has been correctly programmed and will not interfere with the proper operation of the crane.
- The crane has been set up and leveled.
- None of the target points have been placed at a radius that exceeds the crane's rated capacity.

CIRCUMVENTING THE COURSE

Circumventing the course on CCO Tower Crane Operator Practical Exams is defined as when:

1. Chain leaves the corridor while on or off the ground and passes more than one pole left still standing on the original string line before re-entering the corridor; you **must** enter the circles from inside the corridor to avoid this being marked as a deficiency
2. Chain leapfrogs from one leg of corridor to another with the chain off the ground, outside the corridor
3. Chain passes four or more poles consecutively with the chain off the ground, inside the corridor

All points for that task are lost if a circumvention occurs. The Examiner has the authority to stop the task at any time if he/she feels that the candidate is attempting to circumvent any task.

UNSAFE ACT

If, at any time during the Pre-Test Familiarization Period or during the test, you commit an unsafe act, you will be disqualified from continuing with the test. *Unsafe acts* include but are not limited to the following:

- Dropping the ball or load hook on ground
- Two-blocking of the crane
- Contacting the crane with the Test Weight
- Uncontrolled or reckless operation (must be sufficient to cause safety concern to personnel or crane)
- Failure to respond to a *stop* signal
- Contacting obstruction with crane or Test Weight

The Examiner has the authority to stop the test at any time for reasons of safety. Please ask the Examiner if you have questions.

If you are disqualified due to an unsafe act, you will not be permitted to test *on any crane* until the next day.

CANDIDATE ID AND SIGNATURE

Prior to beginning the examination, the Examiner will ask you for a photo identification, such as a driver's license.

The Examiner will ask if you have read the Candidate Information and Instructions and will answer any questions you may have. He/she will review with you the weather conditions and ask you to sign indicating that you understand the instructions for the test and that you agree with the Examiner's assessment of the weather conditions.

WEATHER CONDITIONS/EQUIPMENT PROBLEMS

The Examiner will use an anemometer to check the wind speed and then will record the weather conditions on the score sheet.

The Examiner has the responsibility to determine if weather conditions or equipment problems are such that a test needs to be suspended. If the test is interrupted due to weather conditions or equipment problems, the procedure for restarting is as follows:

- You will resume the test at the beginning of the task you were performing at the time of the interruption, except for Task 3, when you will go back to the beginning of either Task 3a or 3b, as appropriate.
- You will be entitled to a Pre-Test or Pre-Task Familiarization Period before resuming the test.
- If testing resumes on a different machine, you must start the test over from the beginning. The first score sheet will be marked as "VOID" with an explanation and returned to NCCCO.
- If the testing is delayed to a different day, the test must be restarted from the beginning.

CRANE WALK AROUND

- Before you begin operations, you are allowed a couple of minutes to walk around the crane to ensure proper setup.

TASK: PRE-OPERATIONAL (SHIFT) INSPECTION

- The Examiner will identify five items regarding the crane that are part of the pre-operational inspection. One at a time, you will describe how you would conduct the inspection and what deficiencies you would look for.
- You have approximately one minute per item.

PRE-TEST FAMILIARIZATION PERIOD

- You will be allowed 15 minutes to familiarize yourself with the crane and to examine anything on the crane that you feel is necessary to operate it comfortably.
- You will be allowed to get the feel of the controls and run the crane through its functions. The jib length has been preset. The brakes and other devices have been set according to the crane manufacturer's recommendations.
- You may not interfere with the test course, lift the Test Weight, or shadow the Zigzag Corridor and Load Circle.
- You must finish the Pre-test Familiarization Period with the load hook under control in the Start Circle within the 15-minute period.
- The Examiner will notify you when there are ten, five, and one minute(s) remaining.
- If you are ready in less than 15 minutes, you may indicate this to the Examiner.
- If, at the end of the Pre-Test Familiarization Period, you feel you are not ready to take the examination, you should notify the Examiner. You will have, in effect, disqualified yourself from taking the examination at this time, and you will be required to sign to that effect on the Candidate Score Sheet.

TASK 1: PLACE LOAD HOOK AND CHAIN IN STOP CIRCLE

Optimum time: 1½ minutes

- At the Examiner's indication to start, at which point timing begins, raise the load hook and chain at least 10 ft. off the ground to clear all obstacles and personnel.
- Bring it from its starting position in the Start Circle to the Stop Circle.
- Once the load hook and chain reaches the Stop Circle, place it there such that the chain suspended from the hook makes contact with the ground inside the circle and remains there.
- Once the chain makes contact with the ground inside the circle, you are not permitted to lift the chain off the ground.
- The Examiner will give you a *stop* signal once the load hook and chain are under control.
- Points will be deducted for the following:
 - a. Dragging or contact of chain outside of the circle
 - b. Load hook touching ground either inside or outside of the circle

- c. Load hook or chain contacting any part of the course (e.g., poles)
- d. Lifting the chain off the ground after it has made contact with the ground inside the circle
- e. Exceeding the optimum time

PRE-TASK FAMILIARIZATION PERIOD (WITH TEST WEIGHT)

This part of the test is not scored.

- At the Examiner's indication, bring the load hook over the Test Weight located in the Test Weight Circle.
- The load will be attached to the crane's load hook by the Examiner or Proctor.
- You are allowed to bring the Test Weight to the designated area where you can get the feel of the load, test the brake, etc., before beginning the Load Circle task.
- You may not swing the load outside of the designated area or shadow the Zigzag course.
- You will be allowed a maximum of five minutes for this Pre-Task Familiarization, by the end of which period you must have placed the Test Weight on the ground in the Test Weight Circle with the rigging taut.
- The Examiner will notify you when there is one minute remaining.

TASK 2: PLACE TEST WEIGHT IN LOAD CIRCLE

Optimum time: 4 minutes

- At the Examiner's indication to start, bring the Test Weight from the Test Weight Circle to the Load Circle.
- Swing, trolley, or hoist as necessary to place the Test Weight on the ground completely within the Load Circle.
- The Examiner will then give the *hoist* and *swing* signal, and this will indicate that you should then hoist and swing to place the Test Weight on the ground in the Start Circle.
- Do not let any part of the Test Weight make contact with the PVC barriers that surround the Load and Start Circles.
- Timing ends when you have placed the Test Weight on the ground in the Start Circle. The task is not complete until the load is placed completely within the outside perimeter of the circle and the Examiner has given you a *stop* signal. If the Examiner has not given you a *stop* signal, this indicates that the weight is not within the circle and the task continues to be timed.

- Points will be deducted for the following:
 - a. Knocking ball off pole
 - b. Knocking pole over
 - c. Exceeding the optimum time
 - d. Hitting any part of the course

TASK 3: NEGOTIATE ZIGZAG CORRIDOR WITH LOAD

Optimum time: 3 minutes each direction

This task is divided into two tasks: 3a and 3b. Task 3a requires you to go through the corridor in a forward direction; Task 3b requires you to go through the corridor in a reverse direction.

- At the Examiner's direction to start, at which point timing begins, lift the Test Weight into the air and swing, trolley, or hoist up or down as you judge necessary to guide the load through the Zigzag Corridor without touching the ground with the Test Weight, raising the Test Weight so high that the chains leave the ground, or knocking over any part of the PVC barrier. Points will be deducted for the following:
 - a. Knocking ball off pole
 - b. Moving pole base off line
 - c. Knocking pole over
 - d. Chain leaving ground
 - e. Passing poles with chain off ground
 - f. Load touching ground
 - g. Circumventing the task
 - h. Exceeding the optimum time
- Timing stops when you have placed the Test Weight on the ground in the Stop Circle and the Examiner has given you a *stop* signal. The task is not complete until the load is placed completely within the outside perimeter of the circle and the Examiner has given you a *stop* signal. If the Examiner does not give you a *stop* signal, this indicates the weight is not within the circle, and the task continues to be timed.
- The Proctor will then detach the Test Weight from the load hook.
- At the Examiner's direction, swing the load hook to the Start Circle and allow the Examiner to attach the chain in readiness for the next candidate. Remain in the cab or at the operator's station until the Examiner gives you a clear indication that you may leave. Set the swing brake and lock before leaving.

TASK 4: SAFE SECURING PROCEDURES

- Describe the procedures you would follow to secure the crane at the end of the work day.

POST-TEST PROCEDURES

Once you have completed the Practical Examination:

- The Examiner will record your performance.
- The Examiner is not permitted to review your score sheet or discuss your performance on the test.
- Exam results will be mailed to you within approximately twelve working days of NCCCO's receipt of the score sheet.
- If you have made formal application to test on other cranes, return to the candidate briefing area.
- If you have completed all of your tests, you must leave the Test Site.



Candidate Application Forms

Please photocopy and complete all sides of the following forms when applying for CCO Written and Practical Examinations.

- **Candidate Application—Written Examination**
- **Candidate Application—Practical Examination**
- **Recertification Application—Written Examination**
- **Change of Address Form**
- **Physical Examination Form**

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Candidate Application

WRITTEN EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE OPERATOR (PAPER/PENCIL TESTS ONLY)

Please type or print neatly.

FULL LEGAL NAME <small>(as shown on driver's license)</small>		First	Middle	Last	Suffix (Jr., Sr., III)
CCO CERTIFICATION NUMBER (if previously certified)		DATE OF BIRTH		CANDIDATE ID: <small>(if previously tested)</small>	
MAILING ADDRESS			CITY	STATE	ZIP
PHONE		CELL	EMAIL		
COMPANY/ORGANIZATION				PHONE	
COMPANY MAILING ADDRESS			CITY	STATE	ZIP
<input type="checkbox"/> I AM REQUESTING TESTING ACCOMMODATIONS IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA). <small>(For details on NCCCO's Testing Accommodations policy, please see http://www.nccco.org/accommodations.)</small>					

WRITTEN EXAMINATION(S) FOR WHICH YOU ARE APPLYING

FILL IN the circle next to the crane type(s) for which you are applying; for Mobile Cranes, **CHECK** the load chart you want to use for that crane type. Also **FILL IN** the appropriate circle(s) below for correct fees. **NOTE:** If you are registering for Mobile Crane exams, you must register for the Mobile Core Exam and at least one Specialty Exam (unless you are a Retest Candidate).

If you are recertifying, please use separate Recertification Written Examination Application Form.

WRITTEN EXAMS

LOAD CHARTS		
<input type="radio"/> Mobile Core Exam	652603	(Check one for each Specialty Exam)
<input type="radio"/> Lattice Boom Crawler (LBC)	652620	<input type="checkbox"/> Terex/American
	652607	<input type="checkbox"/> Manitowoc
<input type="radio"/> Lattice Boom Truck (LBT)	652609	<input type="checkbox"/> Link-Belt
	652610	<input type="checkbox"/> Manitowoc
<input type="radio"/> Telescopic Boom—Swing Cab (TLL)	652612	<input type="checkbox"/> Grove (Truck Mount)
	652613	<input type="checkbox"/> Link-Belt (Rough Terrain)
	652618	<input type="checkbox"/> National (Boom Truck)
<input type="radio"/> Telescopic Boom—Fixed Cab (TSS)	652616	<input type="checkbox"/> Manitex (Boom Truck)
	652660	<input type="checkbox"/> Shuttlelift (Carry Deck)
<input type="radio"/> Boom Truck—Fixed Cab (BTF)	652671	<input type="checkbox"/> Manitex (Boom Truck)
<input type="radio"/> Tower Crane	654601	
<input type="radio"/> Overhead Crane	653601	

OTHER FEES

- Candidate Late Fee (if applicable) \$50
- Incomplete Application Fee (if applicable) \$30
- Updated/Replacement Card..... \$25

ADD TO TOTAL AMOUNT AT RIGHT →

WRITTEN EXAM/RETEST FEES

MOBILE CRANE EXAMS

- Core Exam plus one Specialty Exam \$165
- Core Exam plus two Specialty Exams \$175
- Core Exam plus three Specialty Exams \$185
- Core Exam plus four Specialty Exams \$195

RETEST or ADDED SPECIALTY FEES

- Core Exam only or Core plus one Specialty (Retest) \$165
- One Specialty Exam (Retest or Added Specialty) \$65
- Two Specialty Exams (Retest or Added Specialty) \$75
- Three Specialty Exams (Retest or Added Specialty) \$85
- Four Specialty Exams (Retest) \$95

TOWER CRANE EXAMS

- Tower Crane Written Exam (new Candidate) \$165
- Tower Crane Written Exam (current CCO-certified Mobile Crane Operator, or new candidate taking exam same time as Mobile Crane exams) \$50

OVERHEAD CRANE EXAMS

- Overhead Crane Written Exam (new Candidate) \$165
- Overhead Crane Written Exam (current CCO-certified Mobile Crane Operator, or new candidate taking exam same time as Mobile Crane exams) \$50

TOTAL AMOUNT DUE \$

CANDIDATE APPLICATION (CONT'D)

WRITTEN EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE OPERATOR

TEST SITE AT WHICH YOU INTEND TO TAKE THE WRITTEN EXAMINATION




TEST SITE NAME	TEST SITE COORDINATOR		
TEST SITE ADDRESS			
CITY	STATE	ZIP	COUNTRY
TEST ADMINISTRATION NUMBER	DATE YOU INTEND TO TAKE THE CCO EXAMINATION		

I declare that the foregoing statements and those in any required accompanying documentation are true. I understand and agree that my failure to provide accurate and complete information or abide by NCCCO's policies and procedures, including the Code of Ethics, shall constitute grounds for the rejection of my application, or denial or revocation of my certification. I understand that NCCCO reserves the right to verify any information in this application or in connection with my certification. I consent to NCCCO's release of any information regarding this application and my examination administration to third parties, consistent with NCCCO's Information Release policy. I have received a copy of the NCCCO Candidate Handbook, have read it, and agree to be bound by it. I also agree to be bound by all NCCCO policies and procedures, as they may be amended from time to time, including without limitation those posted at nccco.org. I attest that I have passed a substance abuse test conducted by a recognized laboratory service and agree to comply with NCCCO's substance abuse policy. I have passed a physical exam that complies with the ASME B30 standard for my certification designation and I will continue to comply with those requirements. I understand that if at any point during my certification period I fail to meet any of the requirements outlined above, or if matters arise that can affect my capability to continue to fulfill certification requirements, I must report it to NCCCO immediately and agree to cooperate with any subsequent investigation regarding such matters.

CANDIDATE SIGNATURE	DATE
---------------------	------

METHOD OF PAYMENT FOR CANDIDATE EXAMINATION FEES

Do not send cash.

<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> Personal check enclosed	<input type="checkbox"/> Employer check enclosed	<input type="checkbox"/> Money Order enclosed	<i>Please do not staple your check or money order.</i>
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If paying by credit card, complete the following information:

CREDIT CARD NUMBER	<input type="text"/>	EXPIRATION DATE	<input type="text"/>
NAME (Print as it appears on card)	<input type="text"/>	SIGNATURE (on card)	<input type="text"/>
		SECURITY CODE*	<input type="text"/>

* Three- or four-digit code located on the card.

Checks and money orders should be payable to: NCCCO

Please send application and payments to:

NCCCO—Testing Services Department
 1960 Bayshore Blvd.
 Dunedin, Florida 34698
 Phone: 727-449-8525
 Fax: 727-461-2746
 Email: kqualls@nccco.org



Candidate Application

PRACTICAL EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE OPERATOR

Please type or print neatly.

FULL LEGAL NAME (as shown on driver's license)		First	Middle	Last	Suffix (Jr., Sr., III)
CCO CERTIFICATION NUMBER (if previously certified)		DATE OF BIRTH		CANDIDATE ID: (if previously tested)	
MAILING ADDRESS					
CITY			STATE	ZIP	COUNTRY
PHONE		CELL		EMAIL	
COMPANY/ORGANIZATION				PHONE	
COMPANY MAILING ADDRESS					
CITY			STATE	ZIP	COUNTRY

INDICATE WITH A CHECK THE CRANE TYPE(S) YOU WISH TO BE TESTED ON:

- | | |
|---|---|
| <input type="checkbox"/> Lattice Boom Crane | <input type="checkbox"/> Tower Crane |
| <input type="checkbox"/> Telescopic Boom Crane—Swing Cab (TLL): Testing on a boom truck? <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Overhead Crane |
| <input type="checkbox"/> Telescopic Boom Crane—Fixed Cab (TSS): Testing on a boom truck? <input type="checkbox"/> Yes <input type="checkbox"/> No | |

TEST SITE AT WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION

TEST SITE COORDINATOR NAME		PE SITE #:
PHONE	EMAIL	
TEST SITE ADDRESS		
CITY	STATE	ZIP
COUNTRY		

I declare that the foregoing statements and those in any required accompanying documentation are true. I understand and agree that my failure to provide accurate and complete information or abide by NCCCO's policies and procedures, including the Code of Ethics, shall constitute grounds for the rejection of my application, or denial or revocation of my certification. I understand that NCCCO reserves the right to verify any information in this application or in connection with my certification. I consent to NCCCO's release of any information regarding this application and my examination administration to third parties, consistent with NCCCO's Information Release policy. I have received a copy of the NCCCO Candidate Handbook, have read it, and agree to be bound by it. I also agree to be bound by all NCCCO policies and procedures, as they may be amended from time to time, including without limitation those posted at nccco.org. I attest that I have passed a substance abuse test conducted by a recognized laboratory service and agree to comply with NCCCO's substance abuse policy. I have passed a physical exam that complies with the ASME B30 standard for my certification designation and I will continue to comply with those requirements. I further attest that I am physically and mentally capable of safely operating equipment on the day of the Practical Examination. I understand and agree that any personal injury and/or property damage resulting from or caused in any way by my participation in the CCO Practical Examination is not and shall not be the responsibility of NCCCO. I understand that if at any point during my certification period I fail to meet any of the requirements outlined above, or if matters arise that can affect my capability to continue to fulfill certification requirements, I must report it to NCCCO immediately and agree to cooperate with any subsequent investigation regarding such matters.

CANDIDATE SIGNATURE	DATE
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CANDIDATE APPLICATION (CONT'D)

PRACTICAL EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE OPERATOR

CCO CERTIFICATION CARD

Candidates who meet all the requirements for certification in any one designation are issued a certification card at no charge. Replacement and updated cards are available for an additional fee; see panel below.

Please email a digital color photo (without hat or sunglasses) to **photos@nccco.org** and label it with your full name and birth date. Enclose with your application form any required payment based upon the information listed below.

A 1½"× 1¾" passport color photo may be substituted for a digital photo; if submitting a passport photo, please give it to your Test Site Coordinator.

PRACTICAL EXAMINATION FEES

Checks and money orders must be made payable to NCCCO. Credit cards (Visa, Master Card, or American Express) may be used by completing the credit card information below.




Check the box(es) next to the Practical Exam types(s) for which you are registering.

Practical Examination Fees:

- One Mobile Crane type: \$60 Two Mobile Crane types: \$70 Three Mobile Crane types: \$80
- Tower Crane only: \$60
- Tower Crane (current CCO-certified Mobile Crane Operator, or new candidate registering for Mobile Crane Operator exams at the same time): \$50
- Overhead Crane only: \$60
- Overhead Crane (current CCO-certified Mobile Crane Operator, or new candidate registering for Mobile Crane Operator exams at the same time): \$50
- Updated/replacement card: \$25

METHOD OF PAYMENT FOR CANDIDATE EXAMINATION FEES

Do not send cash.

<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Personal check enclosed	<input type="checkbox"/> Employer check enclosed	<input type="checkbox"/> Money order enclosed	<i>Please do not staple your check or money order.</i>
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If paying by credit card, complete the following information:

CREDIT CARD NUMBER	<input type="text"/>	EXPIRATION DATE	<input type="text"/>
NAME (Print as it appears on card)	<input type="text"/>	SIGNATURE (on card)	<input type="text"/>
		SECURITY CODE*	<input type="text"/>

* Three- or four-digit code located on the card.

Checks and money orders should be payable to: **NCCCO**

Do not send this application to NCCCO. Give this application, along with payment and all necessary documentation, to your Test Site Coordinator on test day.

CANDIDATE RECERTIFICATION APPLICATION (CONT'D)

WRITTEN EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE OPERATOR

TEST SITE AT WHICH YOU INTEND TO TAKE THE WRITTEN EXAMINATION

TEST SITE NAME	TEST SITE COORDINATOR		
TEST SITE ADDRESS			
CITY	STATE	ZIP	COUNTRY
TEST ADMINISTRATION NUMBER	DATE YOU INTEND TO TAKE THE CCO EXAMINATION		

I do NOT have 1,000 hours of documented crane-related experience, and I must therefore take an CCO Practical Exam for each designation in which I wish to be recertified.

I declare that the foregoing statements and those in any required accompanying documentation are true. I understand and agree that my failure to provide accurate and complete information or abide by NCCCO's policies and procedures, including the Code of Ethics, shall constitute grounds for the rejection of my application, or denial or revocation of my certification. I understand that NCCCO reserves the right to verify any information in this application or in connection with my certification. I consent to NCCCO's release of any information regarding this application and my examination administration to third parties, consistent with NCCCO's Information Release policy. I have received a copy of the NCCCO Candidate Handbook, have read it, and agree to be bound by it. I also agree to be bound by all NCCCO policies and procedures, as they may be amended from time to time, including without limitation those posted at nccco.org. I attest that I have passed a substance abuse test conducted by a recognized laboratory service and agree to comply with NCCCO's substance abuse policy. I have passed a physical exam that complies with the ASME B30 standard for my certification designation and I will continue to comply with those requirements. I further affirm either that I have maintained at least 1,000 hours of crane-related experience in the past five years or, if I have not maintained this experience, I have checked the box above this panel indicating that before my certification expires I will take and pass a practical exam for each designation for which I wish to be recertified. I understand that if at any point during my certification period I fail to meet any of the requirements outlined above, or if matters arise that can affect my capability to continue to fulfill certification requirements, I must report it to NCCCO immediately and agree to cooperate with any subsequent investigation regarding such matters.

CANDIDATE SIGNATURE	DATE
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METHOD OF PAYMENT FOR CANDIDATE EXAMINATION FEES

Do not send cash.

<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Personal check enclosed	<input type="checkbox"/>	Employer check enclosed	<input type="checkbox"/>	Money order enclosed	<i>Please do not staple your check or money order.</i>
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If paying by credit card, complete the following information:

CREDIT CARD NUMBER	EXPIRATION DATE
NAME (Print as it appears on card)	SIGNATURE (on card)
	SECURITY CODE*

* Three- or four-digit code located on the card.

Checks and money orders should be payable to: NCCCO

Please send application and payment to: NCCCO—Testing Services Department
1960 Bayshore Blvd. Phone: 727-449-8525
Dunedin, Florida 34698 Fax: 727-461-2746
Email: kqualls@nccco.org

CANDIDATE APPLICATION CHECKLIST

- I have completed and signed this *Recertification Exam Application*.
- I have provided credit card information or a check or money order for the correct amount due.
- I have emailed a color digital photo (full face, no sunglasses, no hat) to photos@nccco.org and labeled it with my full name and birth date.
- I do not have a digital photo, so I am attaching a 1 3/8" X 1 3/4" passport photo with this application.

For additional information regarding **recertification**, contact:

National Commission for the Certification of Crane Operators (NCCCO)	Phone: 703-560-2391	info@nccco.org
2750 Prosperity Avenue, Suite 505	Phone: 703-560-2392	www.nccco.org
Fairfax, VA 22031		



Change of Address Form

Please use this form to advise of any changes of address. Please mail, fax, or email this completed form to:

NCCCO—Testing Services Department
 1960 Bayshore Blvd.
 Dunedin, Florida 34698

Phone: 727-449-8525
 Fax: 727-461-2746
 Email: info@nccco.org

Please type or print neatly.

FULL LEGAL NAME (as shown on driver's license)	First	Middle	Last	Suffix (Jr., Sr., III)																				
CCO CERTIFICATION NUMBER	DATE OF BIRTH		CANDIDATE ID	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> <td style="width: 15px; height: 15px;"></td> </tr> </table>																				

OLD ADDRESS

MAILING ADDRESS				
CITY	STATE	ZIP	COUNTRY	
PHONE	EMAIL			
COMPANY / ORGANIZATION	COMPANY PHONE			
COMPANY MAILING ADDRESS				
CITY	STATE	ZIP	COUNTRY	

NEW ADDRESS

MAILING ADDRESS				
CITY	STATE	ZIP	COUNTRY	
PHONE	EMAIL			
COMPANY / ORGANIZATION	COMPANY PHONE			
COMPANY MAILING ADDRESS				
CITY	STATE	ZIP	COUNTRY	

EFFECTIVE DATE OF CHANGE

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NCCCO Information Release Policy

A. Definitions

1. "NCCCO" means and refers to the National Commission for the Certification of Crane Operators acting through its staff and authorized agents and representatives.
2. "Releasable Information" means and refers to the following information: name, certification status, examination dates, certification dates, certification number(s), and designations.
3. "Third Party" means and refers to an employer, prospective employer, regulatory agency, or any other person or entity that makes an inquiry to NCCCO.

B. Policies

1. It shall be the policy of NCCCO to provide Releasable Information pertaining to individuals who have successfully passed one or more NCCCO examinations. It shall also be the policy of NCCCO to provide Releasable Information pertaining to such individuals on its website using such protocols as may be established.
2. Releasable Information may be released to a Third Party who makes a written request, including by electronic correspondence. Generally, Releasable Information will be released within one business day from actual receipt of a written request.
3. If a Third Party requests information concerning an individual who has not taken or successfully passed an NCCCO examination, NCCCO may release a statement confirming that, as of a given date, the individual does not appear on NCCCO's list of successful candidates in one or more categories of certification.
4. If an applicant or certificant is under formal sanction, suspension, or revocation by NCCCO, then NCCCO may release a statement to that effect to any persons and by any reasonable means, including by means of a list published on the NCCCO website. In addition, if an individual applicant or certificant is under formal investigation, sanction, suspension, or revocation by NCCCO, then NCCCO may release a statement concerning the status of the applicant or certificant to any Third Party and to any jurisdiction that requires or accepts CCO certification as a basis for satisfying requirements to work in the jurisdiction. Any such statement to a Third Party or jurisdiction may identify the applicant or certificant, the certifications affected,

the actions taken, and the effective dates of any such actions.

5. If a Third Party seeks information other than the foregoing information, generally, absent a subpoena or similar legal process, such information will not be released. However, in the course of business, as circumstances reasonably warrant, NCCCO reserves the discretion to release information other than the foregoing information.
6. Certain situations may require or warrant the immediate verbal confirmation of an individual's certification status or other Releasable Information in response to a written or verbal request. Under such circumstances, NCCCO may provide such immediate verbal confirmation, at its discretion. When such a verbal confirmation is provided, it shall be NCCCO's policy to follow up with a written confirmation.
7. It shall be the policy of NCCCO to discuss score-related and test-specific matters only with a candidate or a candidate's authorized legal representative.
8. NCCCO will release Releasable Information about an individual upon receipt of a written request (including electronic correspondence) from that individual. NCCCO may release information other than Releasable Information about an individual, at its discretion, upon receipt of a signed, notarized, written request from that individual. In addition, NCCCO will release information other than Releasable Information about an individual when required by a legal authority of competent jurisdiction under a duly-issued subpoena, subject to any objection, or as otherwise required by law.

IMPORTANT CONTACT INFORMATION



NATIONAL COMMISSION FOR THE CERTIFICATION OF CRANE OPERATORS

2750 Prosperity Avenue, Suite 505
Fairfax, VA 22031-4312

Phone: 703-560-2391

Fax: 703-560-2392

Email: info@nccco.org



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