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

### **CANDIDATE HANDBOOK**

- MOBILE CRANE OPERATOR
  - Lattice Boom Truck Cranes (LBT)
  - Lattice Boom Crawler Cranes (LBC)
  - Telescopic Boom Cranes—Swing Cab (TLL)
  - Telescopic Boom Cranes—Fixed Cab (TSS)
  - Boom Trucks—Fixed Cab (BTF)
  - Service Truck Cranes (STC)



#### **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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National Commission for the Certification of Crane Operators

NCCCO does not discriminate against any individual because of race, gender, age, creed, disability, or national origin.



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).



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 Mobile Crane Operator Certification Candidate:

Welcome to the National Commission for the Certification of Crane Operators (NCCCO) national mobile 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 was the development of the CCO Written and Practical Examinations, initially for mobile crane operators but now also for tower, overhead, and articulating crane operators, digger derrick operators, riggers, signalpersons, crane inspectors, and lift directors. These nationally recognized and internationally accredited certification programs are the culmination of many years' hard work by experts from the varied industries and groups that use cranes, including construction, steel erection, operating engineers, utilities, crane rental, petrochemicals, pulp and paper, and others.

The NCCCO Mobile Crane Task Force that developed this certification program was made up of experts from all aspects of the crane industry—crane operators, crane users, trainers, safety supervisors, manufacturers—who together represent many thousands of hours of crane-related experience. These volunteers gave freely of their time and expertise with the primary 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 developed to provide you with comprehensive information about the CCO Written and Practical Examinations leading to certification. 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 you do not fully understand, please call NCCCO at 703-560-2391 or e-mail info@nccco.org. NCCCO staff will guide you through any aspects 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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#### **PROGRAM DESCRIPTION**

The National Commission for the Certification of Crane Operators (NCCCO) is an independent, nonprofit organization formed 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 operators' abilities
- · Less property damage
- · Improved safety records
- Enhanced public image of crane operators

All candidates are required to pass both Written and Practical Examinations to be certified. The Practical Examination Specialties correspond to the Written Exam Specialties, except that candidates may choose either the Lattice Boom Crawler Crane Practical Specialty or the Lattice Boom Truck Crane Practical Specialty.

The initial certification period is for five years. To maintain their certification, certificants are required to recertify prior to their expiration date. Periodic Written Examinations are 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/licensing programs before determining that this goal could be achieved by setting the examination interval at five years; little, if any, additional benefit is believed would accrue by more frequent testing. A Practical (skills) Examination is not required for recertification, providing the certificant meets experience requirements.

#### **CCO EXAMINATION DEVELOPMENT**

The first step in the development of an objective test to measure what is required for safe crane operations was a job analysis study. The 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 test blueprints and content specifications were then generated from the validation study.

Development of the *Mobile Crane Operator Written Examinations* (Core and Specialty Exams) 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. Questions are selected for examinations on the basis of the content areas and specialties defined by the test blueprints.

The CCO *Mobile Crane Operator Practical Examinations* were developed as fair and objective assessments of the essential skills a crane operator needs to operate mobile cranes safely. These exams were developed over a three-year period by an NCCCO task force staffed by experts from all aspects of the crane industry—crane operators, training directors, managers, supervisors, manufacturers—who together represent many thousands of hours of crane operating experience.

NCCCO teamed its exam development expertise with the task force's knowledge and experience. 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 task force, NCCCO also helped design the Practical Examiner Accreditation Program whereby NCCCO trains and accredits CCO-certified crane operators to administer CCO Practical Examinations.





#### **ELIGIBILITY**

To be eligible for certification, candidates must:

- Be at least 18 years of age
- Comply with NCCCO's Substance Abuse Policy
- Pass Written Examinations (Core Exam and at least one Specialty Exam)
- Pass Practical Examination(s)
- · Comply with NCCCO's Code of Ethics

#### **CCO WRITTEN EXAMINATIONS**

The Mobile Crane Operator Written Examination consists of a Core Examination in crane operation and up to four crane Specialty Examinations. Certification requires competency in both the Core and one or more Specialty designation(s).

The Core Examination has 90 multiple-choice questions. Candidates are allowed 90 minutes to complete the Core Examination. Each Specialty Examination consists of 26 multiple-choice questions. Candidates are allowed 60 minutes to complete each Specialty Examination.

All candidates are required to take the Core Examination, regardless of the Specialty(s) in which they wish to be certified.

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.

The CCO Written Specialty Examinations are:

- Lattice Boom Crawler Cranes (LBC)
- Lattice Boom Truck Cranes (LBT)
- Telescopic Boom Cranes—Swing Cab (TLL)
- Telescopic Boom Cranes—Fixed Cab (TSS)\*

Candidates must register for the Core and at least one of the Specialty Examinations. Candidates meeting the eligibility requirements may take the Written and Practical Examinations in any order.

\*For information about the Service Truck Crane Operator program, a subcategory of the Telescopic Boom Crane—Fixed Cab (TSS) designation, please see page 35.

#### **CCO PRACTICAL EXAMINATIONS**

The Mobile Crane Operator Practical Examination demonstrates crane operation proficiency and is available for three crane types:

- Lattice Boom Cranes (covering both LBC and LBT)
- Telescopic Boom Cranes—Swing Cab (TLL)
- Telescopic Boom Cranes—Fixed Cab (TSS)

A candidate must pass the Written Core and at least one Specialty Examination as well as the corresponding Practical Exam(s) to be certified for a five-year period.

#### **BOOM TRUCK OPERATOR**

The CCO Boom Truck—Fixed Cab Operator certification is a subcategory of the CCO Telescopic Boom—Fixed Cab (TSS) certification and was developed specifically for the industries that use these machines.

A boom truck (commercial truck-mounted crane) is defined as a crane consisting of a rotating superstructure (center post or turntable), a fixed or telescopic boom, operating machinery, and one or more operator's stations mounted on a frame attached to a commercial truck chassis with a payload hauling capability whose power source powers the crane. Its function is to lift, lower, and swing loads at various radii, requiring the use of outriggers/stabilizers.

There is a wide variety of users of boom trucks, and given their application NCCCO has developed the following subcategories to test the specific knowledge and skills required for a boom truck operator:

• Boom Truck—Fixed Cab (BTF)

The written exam is a modified version of the current TSS written exam. Questions that are irrelevant to boom trucks have been removed, and replaced with questions that specifically deal with boom truck operations. The practical exam remains unchanged. Candidates for BTF must take the TSS practical exam, but the candidate is required to operate a boom truck during the exam.

Please note that the CCO Telescopic Boom—Fixed Cab Operator (TSS) certification covers Boom Truck—Fixed Cab cranes. Operators of Boom Truck—Fixed Cab cranes who currently possess a TSS certification are not required to also possess a Boom Truck—Fixed Cab operator certification. The reverse is not true, however. BTF certification is intended only for operators of Boom Truck—Fixed Cab cranes and not for those who operate other Telescopic Boom—Fixed Cab cranes. To be certified to operate all TSS cranes, candidates must achieve the full TSS certification (Core + TSS specialty written + TSS practical).

#### TELESCOPIC BOOM—RESTRICTED

The CCO Telescopic Boom—Swing Cab Restricted (TLL-R) and Telescopic Boom—Fixed Cab Restricted (TSS-R) Operator certifications are restricted versions of the CCO Telescopic Boom—Swing Cab (TLL) and Telescopic Boom—Fixed Cab (TSS). They were developed specifically for operators of cranes that are used in industries such as the precast concrete industry.

Crane operators achieving the TLL-R or TSS-R certification are restricted to operating telescopic boom cranes with a maximum boom length of 37 ft. Cranes may not be equipped with any attachments or jibs/extensions (operation from the main boom only), and the crane must utilize only a basic load chart.

To achieve certification, candidates must pass the Mobile Crane Operator Core written exam as well as a modified version of the Telescopic Boom written exam that features a QMC boom truck load chart. The single written specialty exam, Telescopic Boom—Restricted (TBR), applies for both TLL-R and TSS-R certifications. This written exam contains content related specifically to cranes that fall within the restricted boom lengths.

The practical exams are unchanged from the existing TLL and TSS programs. The type of crane used on the practical exam must match the crane type an operator seeks to be certified for, either swing cab (rotating operator's station) or fixed cab (fixed operator's station). All NCCCO certification policies common to other CCO operator certifications apply.

Operators already holding the full TLL or TSS certification are not affected by the introduction of this restricted certification because their existing certifications also cover the cranes for which this restriction applies.

#### **SHORT BOOM RESTRICTION**

Candidates passing CCO Practical Exams on cranes not meeting minimum standardized boom configurations will have "Short Boom Restriction" added to their certification card for the applicable crane designation(s).

#### **CCO CERTIFICATION TIME FRAMES**

Candidates must pass Written Exams (Core + Specialty) and a Practical Exam for the designation(s) for which they seek certification. Candidates may take their Written and Practical Exams in any order.

Candidates have 12 months after they pass their first exam (Written or Practical) to pass the corresponding Written or Practical Exam(s) for the same designation(s). For

example, a candidate passing the Written Exams (Core + Specialty) in the Telescopic Boom Cranes—Swing Cab (TLL) designation in January 2015 has until the end of January 2016 to pass the Telescopic Boom Cranes—Swing Cab (TLL) Practical Exam.

Any tests passed within a 12-month period count towards certification. For example, a candidate who passes the Written Core Exam in January 2015 and the Practical Exam in June 2015 but does not pass the corresponding Written Specialty Exam until February 2016 will then be required to retake (and pass) the Written Core Exam. The Practical Exam would count toward certification until the end of June 2016.

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 recertification requirements during the 12 months prior to their certification's expiration date. This includes:

- Passing the Recertification Written Examination(s)
- Compliance with NCCCO's Substance Abuse Policy
- Compliance with the Code of Ethics

Candidates who can attest to at least 1,000 hours cranerelated experience during their period of certification do not need to take the Practical Exam to recertify. *Cranerelated experience* is defined as: operating, maintaining, inspecting, or training on cranes. Recertification candidates who 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 expires*. Candidates whose certification has lapsed must take both the regular Written and Practical Examinations again to be certified again.

The Recertification Written Examinations consist of a Core Examination in crane operation and up to four Specialty Examinations.

The Core Recertification Examination has 40 multiplechoice questions with a time limit of 45 minutes.

Each Specialty Recertification Examination consists of 10 multiple-choice questions with a time limit of 30 minutes.

All candidates are allowed two attempts to pass their Recertification Core and Specialty Exams before their certification expires. Candidates who are unsuccessful after two attempts must take and pass the regular Core and Specialty Exams.

Recertification candidates may take their Recertification Written Examinations 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 at www.nccco.org.

Candidates who are not certified in all Specialties may add a new Specialty at the same time as they take their Recertification Examinations by taking the full examination in that Specialty.

#### **CODE OF ETHICS FOR CERTIFIED OPERATORS**

CCO-certified crane operators must comply with NCCCO's Code of Ethics during their certification, as set forth 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;
- ii. So as to protect and preserve nearby general public property and the environment; and
- iii. 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:

- iv. 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;
- v. Not knowingly violate any safety-related regulations, warnings, or instructions set forth by OSHA, recognized safety standards, prevailing jurisdictions, or equipment manufacturers; and,
- vi. 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:

- vii. 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:
- viii. 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;
- ix. Cooperate fully and completely with any administrative inquiries or investigations by NCCCO; and,
- x. 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 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 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 the National Commission for the Certification of Crane Operators (NCCCO) that certified personnel shall not perform duties related to their certification while under the influence of any substance that impairs or may reasonably be expected to impair their ability to work safely in the workplace.

This includes alcohol, illegal drugs, look-alike drugs, designer drugs, controlled substances, or any other substance that impairs or may reasonably be expected to impair a certificant's ability to work safely, including prescribed or over-the-counter substances.

NCCCO-certified personnel shall comply with all substance abuse provisions of applicable federal, state, and local regulations, as well as industry standards, including the substance abuse testing provisions of ASME B30.

For purposes of this policy, a refusal to submit to a required substance abuse test shall be treated in the same manner as a positive test.

It is a condition of certification that those certified by NCCCO agree to comply with this Substance Abuse Policy. Non-compliance with this policy may subject a certificant to disciplinary action, up to and including suspension or revocation of their certification status.

#### **CERTIFICATION CARDS**

Certified operators receive a laminated photo ID card at no cost when they certify, add a designation, or recertify.

Replacement cards may be obtained from NCCCO at a cost of \$25 and ordered online at: www.nccco.org/newcard.

Certification cards remain the property of NCCCO, are not transferable, and must be returned to NCCCO upon demand.

#### **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's 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 may be sent via letter or fax. A form for this purpose is provided in this handbook.



## APPLICATION PROCESS TO TAKE THE WRITTEN EXAMINATION

Mobile Crane Operator written exams and recertification exams may be taken as either 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. 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 9. 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—Written Exam Processing 34125 U.S. Highway 19 North, Suite 150 Palm Harbor, FL 34684

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:

•	Core Exam only	\$160
•	Core Exam plus one Specialty Exam	\$180
•	Core Exam plus two Specialty Exams	\$200
•	Core Exam plus three Specialty Exams	\$220
•	Core Exam plus four Specialty Exams	\$240
•	One Specialty Exam only (Core passed)	\$75
•	Two Specialty Exams (Core passed)	\$95
•	Three Specialty Exams (Core passed)	\$115
•	Four Specialty Exams (Core passed)	\$135

#### PPT Recertification Written Exam/Retest Fees:

•	Core Exam only	\$160
•	Core Exam plus one Specialty Exam	\$180
•	Core Exam plus two Specialty Exams	\$200
•	Core Exam plus three Specialty Exams	\$220
•	Core Exam plus four Specialty Exams	\$240
•	One Specialty Exam only (Core passed)	\$75
•	Two Specialty Exams (Core passed)	\$95
•	Three Specialty Exams (Core passed)	\$115
•	Four Specialty Exams (Core passed)	\$135

#### Other Fees:

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

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

- · Chooses to cancel his/her application
- · 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 date—can 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 to the test will be accepted.

Candidate applications that arrive after that time cannot be accepted. *Walk-in candidates cannot be accepted under any circumstances.* 

#### Length of Test Day

NCCCO written exams are carefully designed to provide a reliable and valid assessment of a candidate's knowledge and skills. Time limits are carefully determined for each written exam to allow enough time for a prepared candidate to complete the exam and to provide for an efficient and successful administration of all exams to scheduled candidates on testing day.

To provide each candidate with a fair and standardized administration of the written examination(s), and to ensure the reliability and validity of the written examinations is maintained, it is not recommended that a candidate schedule written exams totaling more than six hours of testing time on the same day.

#### **Cancellation Policy**

Should a candidate be unable to sit for the examination for any reason, NCCCO must receive email notification at candidate@nccco.org no later than seven business days prior to the examination date. Candidates will receive a refund of exam fees paid within 30 days of the cancellation, minus a \$25 cancellation fee.

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

#### **Cancellation Due to Emergency**

Only the following situations will be accepted as grounds for cancelling after the deadline (seven business days before scheduled exam):

- *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

Emergency-related requests require 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, written test administration number, and supporting documentation indicated above. Submissions should be sent to: candidate@nccco.org.

NCCCO <u>MUST</u> receive written notification and supporting documentation within seven business days after the scheduled examination date or all application fees will be forfeited.

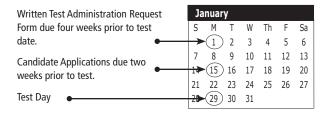
If the request is approved, candidates will receive a refund of exam fees paid within 30 days of the approval, minus a \$25 cancellation fee.

#### 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 adhered to. Sample deadlines shown below 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 Examinations 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 the candidate needs to bring on the day of the test 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 (not expired) governmentissued photo identification that includes date of birth 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 may include a current:

- Passport
- Government-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.

#### Materials to Bring to the Test Site

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

- · Valid 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. A basic four-function calculator will be provided for use on the Specialty exams only.

#### **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/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 nccco.org/cbtlocations. 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, Master-Card, 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:

Core Exam only	\$230
• Core Exam plus one Specialty Exam	\$250*
• Core Exam plus two Specialty Exams	\$270*
• Core Exam plus three Specialty Exams	\$290*
• Core Exam plus four Specialty Exams	\$310*
• One Specialty Exam only	\$145
• Two Specialty Exams (Core passed)	\$165*
• Three Specialty Exams (Core passed)	\$185*
• Four Specialty Exams (Core passed)	\$205*

#### CBT Recertification Written Exam/Retest Fees:

•	Core Exam only	\$230
•	Core Exam plus one Specialty Exam	\$250*
•	Core Exam plus two Specialty Exams	\$270*
•	Core Exam plus three Specialty Exams	\$290*
•	Core Exam plus four Specialty Exams	\$310*
•	One Specialty Exam only (Core passed)	\$145
•	Two Specialty Exams (Core passed)	\$165*
•	Three Specialty Exams (Core passed)	\$185*
•	Four Specialty Exams (Core passed)	\$205*

\*To receive discounted pricing, all CBT exams must be taken at the same test administration.

#### 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 833-333-4752 to speak with PSI Candidate Services Department. A voicemail 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 valid (not expired) governmentissued photo identification that includes date of birth 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 may include a current:

- Passport
- Government-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 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. A basic four-function calculator will be provided on-screen for the Specialty exams only.

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

- This examination is the exclusive property of NCCCO.
- This 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 observation or subsequent statistical analysis, may be sufficient cause to terminate participation, invalidate the results of the examination, or other appropriate remedy.
- A candidate's signature on the answer sheet or roster 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**

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 equivalent for all administrations of the examination(s). The scaled score is not a number-answered-correctly score.

Candidate results are reported as a scaled score, 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 Scoring Requests**

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

Hand-scoring requests should be mailed to:

NCCCO—Written Exam Processing 34125 U.S. Highway 19 North, Suite 150 Palm Harbor, FL 34684

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(s) will be refunded in full.

#### **RETAKING THE EXAMINATION(S)**

Candidates who fail an examination(s) may retake the examination(s); they must reapply and pay all corresponding retest fees. Written exam retest candidates are required to wait a minimum of four weeks before retesting on the same exam, except when an alternate form of the exam is available. An "alternate form" of an exam is a test that is equivalent to the initial test form in content and difficulty but has different questions. Alternate forms are currently in development; they will be available via CBT only. Although alternate forms of Mobile Crane Specialty Exams are not available at this time, candidates may select a different load chart from that originally tested on (e.g., TLL—Grove vs. TLL—Link Belt) if they do not want to wait the required four weeks to retest.

Recertification candidates needing to retake an exam who do not want to wait the required four weeks may retest by taking the applicable initial certification exam(s) instead of retaking the recertification exam.

#### **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 52).



# Written Examination Outline CORE EXAMINATION—MOBILE CRANE OPERATOR

The Core examination portion of the NCCCO Written Examination tests the following knowledge areas relating to the operation of mobile cranes:

#### Domain 1: Site

• Approximately 20% of test

#### **Domain 2: Operations**

· Approximately 26% of test

#### Domain 3: Technical Knowledge

· Approximately 28% of test

#### **Domain 4: Load Charts**

· Approximately 26% of test

#### **DOMAIN 1: SITE**

- 1. Understand elements that affect ground stability:
  - a. Below surface (e.g., voids, tanks, loose fill)
  - b. On surface (e.g., retaining walls, slopes, excavations, depressions)
- 2. Know the proper use of supporting materials (e.g., mats, blocking/cribbing).
- Know electric power line hazards during assembly/ disassembly.
- 4. Know the requirements to travel without load.
- 5. Know how to identify and evaluate hazards concerning:
  - a. Access to job site
  - b. In-transit clearances
  - c. Pinch/crush points
  - d. Personnel
- 6. Know the responsibilities of the controlling entity concerning site conditions.
- Know how to review lift requirements with site supervision.

#### **DOMAIN 2: OPERATIONS**

- 1. Know how to inspect the crane for unsafe conditions.
- 2. Know personnel safety requirements during crane inspections.
- 3. Know how to level the crane.
- 4. Know how to obtain dimensions, weight, and center of gravity of the load.
- 5. Know how to verify the radius.
- 6. Know electric power line hazards during operations.

- 7. Know wire rope:
  - a. Reeving
  - b. Parts of line
- 8. Know types of signals:
  - a. Hand signals
  - b. Voice/radio signals
  - c. Audible signals
  - d. New or non-standard signals
- 9. Know the requirements for:
  - a. Multi-crane lifts
  - b. Suspended personnel platforms
  - c. Duty cycle operations
  - d. Barge operations
  - e. Multi-drum operations
- Know the effects of lifting loads from beneath the surface of the water.
- 11. Know the requirements and procedures for when load is not in full view of the operator.
- 12. Know the requirements of tag lines.
- 13. Know how to react to:
  - a. Block and line twisting
  - b. Personnel in fall zone
- 14. Know the use/function of the following operator aids:
  - a. Load moment indicator, load moment limiter, load weighing devices
  - b. Anti-two block devices
  - c. Boom angle indicator
  - d. Wind indicator
  - e. Drum rotation indicators
  - f. Radius indicators
- 15. Know alternative operating procedures when operator aids malfunction.
- 16. Know the use/function of the following safety devices:
  - a. Horn
  - b. Level indicator
- 17. Know emergency procedures for:
  - a. Electric power line contact
  - b. Loss of stability
  - c. Control malfunction
  - d. Carrier or travel malfunction
  - e. Two-blocking
  - f. Overloading
  - g. Fires

- 18. Know the effects of dynamic loading from:
  - a. Shock loading
  - b. Moving loads
- 19. Know the effect of side loading.
- 20. Know the effects of operating in various weather conditions (e.g., wind, temperature, wave action)
- 21. Understand the condition where backward stability presents limitations.
- 22. Know how to use the manufacturer-approved attachments and their effect on the crane's operation.
- 23. Know operator's authority to stop operations.
- 24. Know how to shut down and secure the crane when leaving it unattended.

#### **DOMAIN 3: TECHNICAL KNOWLEDGE**

- 1. Know current federal regulations and industry standards, including but not limited to ASME B30.5, B30.10, OSHA 1910.180, 1926 Subpart CC.
- 2. Know basic crane terminology and definitions.
- Know functions and limitations of cranes and attachments.
- 4. Know the inspection requirements for:
  - a. Shift inspections
  - b. Monthly inspections
  - c. Annual inspections
  - d. Notifying supervision of inspection deficiencies
- Know basic procedures for rigging devices and their use, such as slings, softeners, lifting beams, and shackles.
- 6. Know basic procedures for termination of wire rope.
- Know the proper use of hook blocks and overhaul balls.
- 8. Know wire rope:
  - a. Types and designations of wire rope and their application
  - b. Replacement criteria and inspection procedures of running ropes
  - c. Maintenance and lubrication
- 9. Know relationship between line pull and safe working load of running ropes.
- 10. Know protective measures against electrical hazards and their limitations.
- 11. Know the significance of the instruments and gauge readings.

- 12. Know requirements for fall protection.
- 13. Know requirements for access and egress of the crane.

#### **DOMAIN 4: LOAD CHARTS**

- 1. Know the terminology necessary to use load charts.
- Demonstrate basic math skills without the use of a calculator.
- 3. Know how to ensure that the load chart is the appropriate chart for the machine in its particular application.
- 4. Know how to use load charts, including:
  - a. The difference between capacity limited by stability and factors other than stability
  - b. The range diagram
  - c. The work area chart
  - d. "Parts-of-line" information



# Written Examination Outline SPECIALTY EXAMINATIONS—MOBILE CRANE OPERATOR

The Specialty Examinations for the NCCCO mobile crane operator certification program test the following knowledge areas relating to the operation of each of these types of cranes:

- Lattice Boom Truck Cranes (LBT)
- Lattice Boom Crawler Cranes (LBC)
- Telescopic Boom Cranes—Swing Cab (TLL)
- Telescopic Boom Cranes—Fixed Cab (TSS)
  - Boom Truck—Fixed Cab (BTF)

Each Specialty Exam only contains questions relevant to cranes within that specialty area. For example, questions about lattice booms will appear on LBT and LBC exams, but will NOT appear on TLL or TSS exams. Note that the BTF exam will only cover questions relevant to boom trucks.

#### Domain 1: Setup

· Approximately 23% of test

#### **Domain 2: Operations**

· Approximately 23% of test

#### Domain 3: Technical Knowledge

· Approximately 19% of test

#### **Domain 4: Manufacturers' Load Charts**

· Approximately 35% of test

#### **DOMAIN 1: SETUP**

- 1. Know the proper use of supporting materials (e.g., mats, blocking/cribbing).
- 2. Know proper boom assembly and disassembly procedures:
  - a. Lattice booms
  - b. Telescopic booms
  - c. Extensions/jibs
- 3. Know how to properly use:
  - a. Outriggers/stabilizers
  - b. Crawlers
- Know how to use outrigger position indicators/ sensors.

#### **DOMAIN 2: OPERATIONS**

- 1. Know how to operate a crane:
  - a. Stationary on rubber tires
  - b. On outriggers
  - c. Stationary on crawlers

- 2. Know how to pick and carry:
  - a. On rubber
  - b. On crawlers
- 3. Know how to shut down and secure the crane properly when leaving it unattended:
  - a. Lattice boom cranes
  - b. Telescopic boom cranes
- 4. Know the use/function of the following operator aids:
  - a. Boom length indicators
  - b. Boom hoist limiting devices
  - c. Luffing jib limiting devices
- 5. Know the use/function of the following safety devices:
  - a. Boom stops
  - b. Brake locks
  - c. Jib stops
- 6. Know power flow systems.
- 7. Know the procedures when approaching twoblocking for:
  - a. Telescopic boom cranes
  - b. Lattice boom cranes

#### **DOMAIN 3: TECHNICAL KNOWLEDGE**

- 1. Know basic crane terminology and definitions specific to different crane types.
- 2. Know functions and limitations and attachments specific to different crane types.
- 3. Know wire rope replacement criteria and inspection procedures (standing ropes)

#### **DOMAIN 4: LOAD CHARTS**

- 1. Understand different elements of load charts:
  - a. Apply load chart notes
  - b. Specifications
  - c. Range diagram
  - d. Work area diagram
  - e. Boom/jib erection charts
  - f. Rated capacity charts
- 2. Understand and apply manufacturers' load charts given various configurations:
  - a. Determining maximum radius for load placement
  - b. Determining gross capacity
  - c. Determining net capacity



The following are sample test questions typical of the style and content of the questions used in NCCCO Written Examinations. Additional sample questions can be found on the NCCCO website at: www.nccco.org/mobile-sample-questions.

- Unless the manufacturers state otherwise, truck cranes generally have no lifting capacity over which area?
  - a. The side
  - b. The rear
  - c. The front
  - d. The outriggers
- 2. Working radius is defined as the distance from the:
  - a. Base of the boom to the center of the load
  - b. Front of the crane to the center of gravity of the load
  - c. Center of rotation of the crane to the center of the load
  - d. Center of rotation of the crane to the center of gravity of the load

- 3. If a bold line is shown on a load chart, the capacities below the line:
  - a. Are based on the structural strength of the crane
  - b. Must not be used
  - c. Are based on the stability of the crane
  - d. Should only be used if the crane is set up on outriggers
- 4. Rough terrain crane capacities are generally greater over the:
  - a. Front
  - b. Rear
  - c. Right side
  - d. Left side
- 5. According to federal requirements, under what conditions is it OK for a person to ride the headache ball?
  - a. When there is no other way to gain access
  - b. When the lift has been approved by an engineer
  - c. When other means would be more dangerous
  - d. It is never OK

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

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

## ANSI/ASME, B30.5 (2018) \$94.00 MOBILE AND LOCOMOTIVE CRANES

Order by Internet: https://www.asme.org/codes-standards
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

#### MOBILE CRANE MANUAL

*Order by Internet:* https://www.ihsa.ca/IHSA/Products/Items.aspx

\$73.99 CDN

NOTE: Online product orders must be shipped to a Canadian address.

*Order by phone:* For U.S. or International orders, please contact IHSA Customer Service at 905-625-0100.

Infrastructure Health & Safety Association Voyager Training Centre 21 Voyager Court South Etobicoke, Ontario M9W 5M7 Canada

Phone: 905-625-0100 Fax: 416-674-8866

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

#### **AEM MOBILE CRANE SAFETY MANUAL** \$5.25

Order by Internet: http://shop.aem.org/ Order by mail:

> 111 East Wisconsin Ave, Suite 940 Milwaukee, WI 53202-4879 ph: 414-272-0943; fax: 414-272-1170

Payments accepted: VISA, MasterCard, check, money order

OCCUPATIONAL SAFETY AND HEALTH
ADMINISTRATION, U.S. DEPARTMENT OF LABOR
CODE OF FEDERAL REGULATIONS, PARTS 1926
SUBPART CC—CRANES AND DERRICKS IN
CONSTRUCTION AND 1910.180—CRANES IN
GENERAL INDUSTRY

*CFR 1910.180:* https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.180

*CFR 1926 Subpart CC:* https://www.osha.gov/laws-regs/regulations/standardnumber/1926

#### IPT'S CRANE AND RIGGING HANDBOOK & MANUAL

Handbook \$24.75 Manual \$41.00

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



# **Practical Examination Process**MOBILE CRANE OPERATOR

#### **SKILLS TESTED**

CCO Mobile Crane Operator Practical Examinations are available on three crane types:

- Lattice Boom Crane (LBC and LBT): includes lattice boom crawler cranes and lattice boom truck cranes
- Telescopic Boom Crane—Fixed Cab (TSS): cranes having a fixed (non-rotating) operator's station
- Telescopic Boom Crane—Swing Cab (TLL): cranes
  having an operator's station that rotates with the
  crane's upper works or turret of the boom. (These
  include any cranes for which an operator stands at a
  control station and "walks" with the controls as they
  rotate with the boom structure; this definition also
  applies to any cranes with a rotating operator station,
  including walk-around, platform, and cab-operated
  boom trucks.)

NOTE: Candidates seeking the Boom Truck—Fixed Cab (BTF) certification will be required to take the exam on a boom truck. All testing parameters (e.g., time limits) will follow the TSS practical exams.

Candidates may take the Practical Examination on one, two, or all three of the crane types, provided they have passed/will pass the Written Examination for the corresponding designation within the 12-month time frame.

Written Exam	Corresponding Practical Exam
Lattice Boom Truck Crane	Lattice Boom Crane (Truck or Crawler)
Lattice Boom Crawler Crane	Lattice Boom Crane (Truck or Crawler)
Telescopic Boom Crane—Swing Cab	Telescopic Boom Crane—Swing Cab
Telescopic Boom Crane—Fixed Cab	Telescopic Boom Crane—Fixed Cab
Boom Truck—Fixed Cab	Telescopic Boom Crane—Fixed Cab (test must be taken on boom truck)

The Practical Examination is comprised of six main tasks that increase progressively in the skill level tested. Skills tested are: inspecting the equipment hoisting, booming, swinging, following hand signals, and combination (multifunction) operations. Crane operation with load and without load is required.

NCCCO adapts the Test Site Layout (CAD) for each model of crane used for the Practical Examination 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. Candidates may also visit the NCCCO website at www.nccco.org for a listing of upcoming open Test Sites.

#### **TEST DAY**

Candidates must report to the Test Site at the scheduled time. Candidates must bring their completed Practical Exam Candidate Application forms and fees with them to their scheduled examination, along with any required supporting materials.

All candidates shall comply with Test Site requirements concerning personal protective equipment (PPE), which at a minimum shall meet OSHA requirements.

Candidates must bring valid (not expired) governmentissued photo identification that includes date of birth to the test site on the day of the test administration.

#### **PRACTICAL SCORING**

Candidate performance on the Practical Examinations 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.

A candidate may lose points either through operational errors or exceeding established optimum time limits. Candidates' performances are scored 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 *75* represents the minimum passing score for Mobile Crane Practical Examinations.

#### PRACTICAL EXAM CANDIDATE FEES

The examination fee for testing for one crane type is \$70. For each additional crane type applied for and taken at the same time, the fee is \$20. The appropriate fees must be submitted with the practical exam application through the Test Site Coordinator. The same fees apply for retest exams.

#### **Practical Exam Candidate Fees**

1 Crane Type \$70
 2 Crane Types \$90
 3 Crane Types \$110

#### **PRACTICAL EXAM HAND SCORING REQUESTS**

Candidates not passing the examination(s) may request from NCCCO hand scoring of their answer sheets, 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. Request(s) should be mailed to:

NCCCO—Practical Exam Processing 5250 S. Commerce Dr., Suite 100 Murray, UT 84107

Phone: 801-363-2693 Fax: 801-938-9540

Email: practicalexam@nccco.org

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.

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 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 Chain in Stop Circle
- Task 2: Follow Hand Signals
- Task 3: Place Ball in Barrels
- Task 4: Negotiate Zigzag Corridor with Test Weight
- Task 5: Safe Shutdown and Securing Procedures

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

You 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 federal OSHA requirements.

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**

For Task 1, Task 3, and Task 4 an *optimum time* limit has been set. If the task is completed within this time period, you receive no time penalty.

Once you exceed this time limit, however, 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. The optimum time for each task is stated as part of the task descriptions. At two times the optimum time the Examiner may end the task and move on to the next task.

#### **PRE-TEST BRIEFING**

While candidates are waiting to take their tests, they 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(s) they will operate. In addition, they will be informed of the make and model of the crane, the boom length, and the weight of the test load. They will also watch a short video showing all the tasks they will be required to perform during the examination. This video is also available on the NCCCO website and candidates must view it within 24 hours before their practical exam(s).

#### 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. A spirit level is available to verify that the crane is level.
- None of the target points have been placed at a radius that exceeds the crane's rated capacity.
- On telescopic boom cranes, the boom length has been pre-set. *Telescoping will not be permitted at any time*.
- All signals used throughout the test are in accordance with the Standard Method hand signals.

#### **CIRCUMVENTING THE COURSE**

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

- 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.

#### **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 (lattice boom cranes: free fall ONLY)
- · 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 any questions.

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

#### **TELESCOPING DURING THE EXAM**

You are not permitted to telescope during the mobile crane practical exam. In the event you telescope in or out, intentionally or otherwise, while timing continues the Examiner will give you a Stop signal, a Telescope In or Out signal as needed, and indicate that you may continue the task. Please note timing of the task continues while necessary corrections are made and until the task is complete. This is not considered a circumvention or an unsafe act. Should you fail to respond to the Stop signal, the Examiner will stop the test and record it as an unsafe act.

#### **CANDIDATE ID AND SIGNATURE**

Prior to beginning the examination, the Examiner will ask you for a valid (not expired) government-issued photo identification that includes date of birth, such as a driver's license.

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

## WEATHER CONDITIONS AND 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 4, when you will go back to the beginning of either Task 4a or 4b, 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.

#### PRE-OPERATIONAL INSPECTION

- You will be asked to identify five items on the crane that are part of the pre-operational inspection.
- One at a time, you will be asked to 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 boom length has been preset. The brakes and other devices have been set according to the crane manufacturer's recommendation.
- You may not interfere with the test course, lift the Test Weight, or shadow the Zigzag Corridor or the barrels.

- You must finish the Pre-test Familiarization Period with the load hook under control and the chain on the ground at the Starting Point 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 that 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 CHAIN IN STOP CIRCLE**

#### Optimum Time: 1½ minutes

- At the Examiner's indication to start, at which point timing will begin, raise the ball and chain at least 10 ft. off the ground to clear all obstacles and personnel.
- Bring it from the Starting Point to the Stop Circle.
- Once the ball 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.
- The Examiner will give you a *stop* signal once the ball and chain are under control.
- Points will be deducted for the following:
  - a. Dragging chain or contacting ground outside of the circle
  - b. Hook or ball touching ground either inside or outside of the circle
  - c. Hook, ball, or chain contacting any part of the course or crane
  - d. Lifting the chain off the ground after it has made contact with the ground inside the circle
  - e. Exceeding the optimum time

#### **TASK 2: FOLLOW HAND SIGNALS**

This task is not timed.

- At the Examiner's direction, you will be guided back to the Starting Point using standard B30.5 hand signals.
- The Examiner will select four signals from the following:
  - a. Hoist and stop
  - b. Swing and stop
  - c. Lower the load and stop
  - d. Lower the load slowly and stop

- e. Lower the boom, raise the load, and stop
- f. Raise the boom and stop
- g. Lower the boom and stop
- h. Raise the boom, lower the load, and stop
- The Examiner may give the signals in any sequence.
- The Examiner or Proctor will remove the chain at the completion of this task.

#### **TASK 3: PLACE BALL IN BARRELS**

**Optimum Times:** 

Telescopic Boom Crane—Fixed Cab: 3½ minutes Telescopic Boom Crane—Swing Cab: 3½ minutes Lattice Boom Crane: 4 minutes

- At the Examiner's indication to start, at which point timing will begin, bring the overhaul ball from the Starting Point and place it into Barrel #1. (If you knock over Barrel #1, at the Examiner's indication proceed to put the ball in Barrel #2.)
- The Examiner will determine when the horizontal line around the center of the ball has dropped below the rim of Barrel #1 and will so indicate to you. At the Examiner's indication, move the ball from Barrel #1 to Barrel #2.
- The Examiner will determine when the horizontal line around the center of the ball has dropped below the rim of the barrel. Hold the ball in Barrel #2 until instructed by the Examiner to remove it.
- Timing stops when the ball is completely clear of Barrel #2 and the Examiner has given you a stop signal.
- Points will be deducted for the following:
  - a. Moving barrel (2 in. or more)
  - b. Knocking over barrel
  - c. Hook or ball touching ground
  - d. 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 overhaul ball over the Test Weight located in the Test Weight Circle.
- The load will be attached to the crane's 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 Zigzag Corridor 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 4: NEGOTIATE ZIGZAG CORRIDOR WITH TEST WEIGHT

**Optimum Times:** 

Telescopic Boom Crane—Fixed Cab: 4 minutes each direction

Telescopic Boom Crane—Swing Cab: 3 minutes each direction

Lattice Boom Crane: 3 minutes each direction

- At the Examiner's direction to start, at which point timing will begin, lift the Test Weight into the air and swing, boom up or down, and 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 chain leaves the ground, or knocking over any part of the PVC pole 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 course
  - 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.
- Once you have placed the Test Weight in the Stop Circle and the Examiner has given you a *stop* signal, you may reposition the boom tip over the Test Weight if necessary. You may not lift or reposition the Test Weight.

- At this time the Examiner will reconstruct the corridor, as necessary.
- At the direction of the Examiner, at which point timing will begin, lift the Test Weight from the Stop Circle and travel through the corridor in reverse fashion.
- Timing stops when you have placed the Test Weight on the ground in the Test Weight 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 hook to the Starting Point and allow the Examiner to re-attach the chain.

## TASK 5: SAFE SHUTDOWN AND SECURING PROCEDURES

- Before leaving the operator station, you will be required to apply safe shutdown procedures to the crane in preparation for the next candidate.
- Once the crane is shut down, you will leave the operator station and describe to the Examiner 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 the receipt of the score sheet by NCCCO.
- If you have made formal applications to test on any 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 MOBILE CRANE OPERATOR**

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

- Candidate Application—Written Examinations
- Candidate Application—Written Examination: Telescopic Boom—Restricted
- Candidate Application—Practical Examinations
- Recertification Application—Written Examinations
- Change of Address Form





### **Candidate Application**

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

Please type or print neatly. All fields marked with an asterisk (\*) must be completed or application will be considered incomplete.

31 1 3 3		, ,,	
FULL LEGAL NAME FIRST*	Middle	LAST*	Suffix (Jr., Sr., III)
(as shown on driver's license)			
CCO CERTIFICATION NUMBER (if previously cert	ified) DATE OF BIRTH*	CANDIDATE ID: (if previously tested)	
PERSONAL MAILING ADDRESS*	CITY*	STATE* ZIP	COUNTRY
HOME PHONE	CELL PHONE*	CANDIDATE EMAIL* (PERSONAL EMAIL UNIQUE T	TO CANDIDATE)
COMPANY/ORGANIZATION		PHONE	
COMPANY MAILING ADDRESS	CITY	STATE	COUNTRY
		WITH THE AMERICAN WITH DISABILITIES Avase see www.nccco.org/accommodatio	

#### 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  $\square$  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
0	Mobile Core Exam	652603	(Check one for each Specialty Exam)
О	Lattice Boom Crawler (LBC)	652620 652607	☐ Terex/American☐ Manitowoc
0	Lattice Boom Truck (LBT)	652609 652610	☐ Link-Belt ☐ Manitowoc
0	Telescopic Boom— Swing Cab (TLL)	652612 652613 652618	☐ Grove (Truck Mount) ☐ Link-Belt (Rough Terrain) ☐ National (Boom Truck)
0	Telescopic Boom— Fixed Cab (TSS)	652616 652660	<ul><li>Manitex (Boom Truck)</li><li>Shuttlelift (Carry Deck)</li></ul>
0	Boom Truck—Fixed Cab (BTF)	652671	☐ Manitex (Boom Truck)
0	Tower Crane	654601	
0	Overhead Crane	653601	

#### WRITTEN EXAM/RETEST FEES

MOBILE CRANE OPERATOR	
O Core Exam	·
O Core Exam plus one Specialty	
O Core Exam plus two Specialty	Exams\$200
O Core Exam plus three Specialty	y Exams\$220
${f O}$ Core Exam plus four Specialty	Exams\$240
	\$75
	\$95
	\$115
O Four Specialty Exams	<b>\$135</b>
TOWER CRANE OPERATOR	EXAM
TOWER CRANE OPERATOR	<b>EXAM</b> Exam\$180
TOWER CRANE OPERATOR  O Tower Crane Operator Written  OVERHEAD CRANE OPERATOR	<b>EXAM</b> Exam\$180
TOWER CRANE OPERATOR  Tower Crane Operator Written  OVERHEAD CRANE OPERATOR  Overhead Crane Operator Writen  OTHER FEES  Candidate Late Fee (if applications)	<b>EXAM</b> Exam\$180 <b>FOR EXAM</b> Iten Exam\$180

### **CANDIDATE APPLICATION (CONT'D)** WRITTEN EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE **OPERATOR**

TEST ADMINISTRATION NUMBER*  Test administration number*  Test administration number*  Test date 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 expressly consent to NCCCO's release of any information consistent with NCCCO's Information Release policy. I have read the NCCCO Candidate Handbook and agree to be bound by all NCCCO policies and procedures—including NCCCO's substance abuse policy—as they may be amended from time to time, including without limitation those posted at nccco.org. 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*]	TEST SITE NAME	TEST SITE C	COORDINATOR NAME*	
TEST ADMINISTRATION NUMBER*  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 expressly consent to NCCCO's release of any information consistent with NCCCO's Information Release policy. I have read the NCCCO Candidate Handbook and agree to be bound by all NCCCO policies and procedures—including NCCCO's substance abuse policy—as they may be amended from time to time, including without limitation those posted at nccco.org. 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.  [DATE*  METHOD OF PAYMENT FOR CANDIDATE EXAMINATION FEES  Do not send cash.    Personal check   Employer check   Money Order enclosed   Please do not staple your check or money order.  If paying by credit card, complete the following information:	TEST SITE ADDRESS			
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 expressly consent to NCCCO's release of any information consistent with NCCCO's Information Release policy. I have read the NCCCO Candidate Handbook and agree to be bound by all NCCCO policies and procedures—including NCCCO's substance abuse policy—as they may be amended from time to time, including without limitation those posted at nccco.org. 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.    Date*   Date*   Date	CITY	STATE	ZIP	
stand 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 expressly consent to NCCCO's release of any information consistent with NCCCO's Information Release policy. I have read the NCCCO Candidate Handbook and agree to be bound by all NCCCO policies and procedures—including NCCCO's substance abuse policy—as they may be amended from time to time, including without limitation those posted at nccco.org. 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*   Do not send cash.	TEST ADMINISTRATION NUMBER*	TEST DATE*	 *	
Personal check	stand and agree that my failure to provide procedures, including the Code of Ethics, revocation of my certification. I understation or in connection with my certification with NCCCO's Information Release policial NCCCO policies and procedures—including to time, including without limitation certification period I fail to meet any of the bility to continue to fulfill certification rewith any subsequent investigation regard	de accurate and complete info , shall constitute grounds for and that NCCCO reserves the on. I expressly consent to NCC cy. I have read the NCCCO Co cluding NCCCO's substance of on those posted at nccco.org. I the requirements outlined aborquirements, I must report it t	formation or abide by NCCCO's policies at the rejection of my application, or denial eright to verify any information in this application in this application consister and date Handbook and agree to be boun abuse policy—as they may be amended from I understand that if at any point during move, or if matters arise that can affect my coto NCCCO immediately and agree to coop	nd or olica- ol by om y apa- erate
Mastercard enclosed enclosed enclosed enclosed enclosed staple your check or money order.  If paying by credit card, complete the following information:	METHOD OF PAYMENT FOR CANDIDAT	TE EXAMINATION FEES	Do not send cash.	
	Master Card Expres	enclosed en	oclosed onclosed staple your	check
			EXPIRATION DATE	

Checks and money orders should be payable to: NCCCO

Email credit card receipt to: \_\_\_\_\_

*If using company credit card, provide company name:* \_\_\_\_

Please contact your Test Site Coordinator for instructions on where to submit written exam applications. If instructed to submit directly to NCCCO, please send application and payment to:

> NCCCO—Written Exam Processing 34125 U.S. Highway 19 North, Suite 150, Palm Harbor, FL 34684

Fax: 727-461-2746

Email: writtenapps@nccco.org

SECURITY CODE

(Three- or four-digit code located on the card.)



### **Candidate Application**

# WRITTEN EXAMINATION—MOBILE CRANE OPERATOR TELESCOPIC BOOM—RESTRICTED (PAPER/PENCIL TESTS ONLY)

Please type or print neatly. All fields marked with an asterisk (\*) must be completed or application will be considered incomplete.

31 1	5 5	`	, , , , , , , , , , , , , , , , , , , ,	
FULL LEGAL NAME (as shown on driver's license)	FIRST*	Middle	LAST*	Suffix (Jr., Sr., III)
CCO CERTIFICATION NUMBER (if p	previously certified)	DATE OF BIRTH*	CANDIDATE ID: (if previously tested)	
PERSONAL MAILING ADDRESS	5*	CITY*	STATE*	ZIP* COUNTRY
HOME PHONE	CELL PHO	NE*	CANDIDATE EMAIL* (PERSONAL EMAIL UNIQU	e to candidate)
COMPANY/ORGANIZATION			PHONE	
COMPANY MAILING ADDRESS		CITY	STATE	ZIP COUNTRY
			E WITH THE AMERICAN WITH DISABILITIE lease see www.nccco.org/accommoda	

#### 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 \( \text{ }\) 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				
0	Mobile Core Exam	652603	(Check one for each Specialty Exam)			
0	Telescopic Boom— Restricted†	652681	☐ QMC (Boom Truck)			
0	Lattice Boom Crawler (LBC)		<ul><li>☐ Terex/American</li><li>☐ Manitowoc</li></ul>			
0	Lattice Boom Truck (LBT)	002000	☐ Link-Belt ☐ Manitowoc			

†Please see page 4 of the Mobile Crane Operator Candidate Handbook for details regarding the Telescopic Boom—Restricted certifications.

#### WRITTEN EXAM/RETEST FEES

O Core Exam	\$160	
O Core Exam plus one Specialty Exam	\$180	
O Core Exam plus two Specialty Exams	\$200	
O Core Exam plus three Specialty Exams\$		
O Candidate Late Fee (if applicable)		
TOTAL AMOUNT DUE \$		

### **CANDIDATE APPLICATION (CONT'D)** WRITTEN EXAMINATION—MOBILE CRANE OPERATOR **TELESCOPIC BOOM—RESTRICTED (PAPER/PENCIL TESTS ONLY)**

#### TEST SITE AT WHICH YOU INTEND TO TAKE THE WRITTEN EXAMINATION

TEST SITE NAME		TEST SITE COORDINATOR NAME*			
TEST SITE ADDRESS		I			
CITY		STATE	ZIP	COUN	TRY
TEST ADMINISTRATION NUMBER*		TEST DATE*	l I		
I declare that the foregoing statements stand and agree that my failure to prouprocedures, including the Code of Ethic revocation of my certification. I understion or in connection with my certification with NCCCO's Information Release poall NCCCO policies and procedures—it time to time, including without limitat certification period I fail to meet any of bility to continue to fulfill certification with any subsequent investigation regardance.	vide accurate and conces, shall constitute grotand that NCCO restion. I expressly consellicy. I have read the Nacluding NCCO's suiton those posted at not the requirements out requirements, I must	nplete inform nunds for the serves the rig nt to NCCCO ICCCO Cana abstance abu ccco.org. I un tlined above,	nation or o rejection tht to verif O's release didate Ha use policy- nderstand , or if mat	abide by NCCCC of my applicatio y any informatio of any informat ndbook and agro —as they may be that if at any poo	O's policies and n, or denial or on in this application consistent ee to be bound by amended from int during my n affect my capa-
METHOD OF PAYMENT FOR CANDIDA	ATE EXAMINATION	FEES		Do not sei	nd cash.
VISA Mastercard I Mastercard If paying by credit card, complete the fo	enclosed	enclos		☐ Money Order enclosed	Please do not staple your check or money order.
CREDIT CARD NUMBER				EXPIRATION DATE	
NAME (Print as it appears on card)	SIGNATURE (on card)			SECURITY CODE (Three- or four-di	git code located on the card
If using company credit card, provide co	mpany name:				
Email credit card receipt to:					
Checks and money orders should be pay	vable to: NCCCO				
Please contact your Test Site Coordinato to submit directly to NCCCO, please sen	-		mit writte	en exam applica	tions. If instructe

NCCCO—Written Exam Processing 34125 U.S. Highway 19 North, Suite 150, Palm Harbor, FL 34684

Fax: 727-461-2746

Email: writtenapps@nccco.org



## **Candidate Application**

## PRACTICAL EXAMINATION—MOBILE, TOWER, & OVERHEAD CRANE OPERATOR

Please type or print neatly. All fields marked with an asterisk (\*) must be completed or application will be considered incomplete.

Tower Crane   STATE   Some Crane   Tower C	Jr Jr	( )			i wiii be considered <u>incomplete</u> .
PERSONAL MAILING ADDRESS*  CITY*    STATE*   ZEP*   COUNTRY     PHONE   CELL PHONE*   CANDIDATE EMAIL* (PERSONAL EMAIL UNIQUE TO CANDIDATE)    PHONE   COUNTRY     STATE   ZEP*   COUNTRY     PHONE   COUNTRY     PHONE   COUNTRY     STATE   ZEP*   COUNTRY     PHONE   COUNTRY     INDICATE WITH A CHECK THE CRANE TYPE(S) YOU WISH TO BE TESTED ON*:   Lattice Boom Crane   Tower Crane   Tower Crane     Telescopic Boom Crane—Swing Cab (TILL): Testing on a boom truck?   Yes   No   Test STIE ADDRESS     Test STIE AT WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION     TEST STIE COORDINATOR NAME*   PESTEE F.*   PHONE   STATE   ZEP   COUNTRY     Test STIE ADDRESS     CITY   STATE   ZEP   COUNTRY     Test STIE COORDINATOR NAME*   PESTEE F.*   PHONE   STATE   ZEP   COUNTRY     Test STIE ADDRESS   COUNTRY     Test STIE ADDRESS   COUNTRY     Test STIE ADDRESS   COUNTRY   COUNTRY   COUNTRY   COUNTRY     Test STIE ADDRESS   COUNTRY   COUNTRY   COUNTRY   COUNTRY     Test STIE ADDRESS   COUNTRY   COUNTRY   COUNTRY   COUNTRY   COUNTRY     Test STIE ADDRESS   COUNTRY   COUNTRY   COUNTRY   COUNTRY   COUNTRY     Test STIE ADDRESS   COUNTRY   CO		Middle		LAST*	Suffix (Jr., Sr., III)
CELL PHONE   CELL PHONE   CANDIDATE EMAIL (PERSONAL EMAIL UNIQUE TO CANDIDATE)	CCO CERTIFICATION NUMBER (if previously certified)	DATE OF BIRTH*	1 1		
CANDIDATE EMAIL * (PERSONAL EMAIL UNQUE TO CANDIDATE)	PERSONAL MAILING ADDRESS*				
COMPANY/ORGANIZATION  COMPANY/ORGANIZATION  COMPANY/ORGANIZATION  COMPANY MAILING ADDRESS  CITY  STATE  ZIP  COUNTRY  INDICATE WITH A CHECK THE CRANE TYPE(S) YOU WISH TO BE TESTED ON*:  Lattice Boom Crane Telescopic Boom Crane—Swing Cab (TLL): Testing on a boom truck? Yes No Overhead Crane Telescopic Boom Crane—Fixed Cab (TSS): Testing on a boom truck? Yes No TEST SITE AT WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  PHONE  TEST SITE COORDINATOR NAME*  PHONE  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  TEST SITE ADDRESS  CITY  INDICATE WHICH FOR THE PRACTICAL EXAMINATION  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  TEST SITE COORDINATOR NAME*  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  TEST SITE COORDINATOR NAME*  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE ADDRESS  CITY  INDICATE WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION OR THE THE ADDRESS AND THE THE THE THE TAKE THE THE TAKE THE THE THE THE TAKE THE TAKE THE THE TAKE THE TAKE THE THE TAKE THE THE TAKE THE T	CITY*		STATE*	ZIP*	COUNTRY
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INDICATE WITH A CHECK THE CRANE TYPE(S) YOU WISH TO BE TESTED ON*:    Lattice Boom Crane	COMPANY MAILING ADDRESS			11	
□ Lattice Boom Crane □ Telescopic Boom Crane—Swing Cab (TLL): Testing on a boom truck? □ Yes □ No □ Telescopic Boom Crane—Fixed Cab (TSS): Testing on a boom truck? □ Yes □ No  TEST SITE AT WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME* □ TEST SITE ADDRESS □ THE	CITY		STATE	ZIP	COUNTRY
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Telescopic Boom Crane—Swing Cab (TLL): Testing on a boom truck? □ Yes □ No  Test site At WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  Test site Coordinator Name*    PESITE #:*    PHONE	INDICATE WITH A CHECK THE (	CRANE TYPE(S) YOU WISI	H TO BE TES	STED ON*:	
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TEST SITE AT WHICH YOU INTEND TO TAKE THE PRACTICAL EXAMINATION  TEST SITE COORDINATOR NAME*  PHONE  ITEST SITE ADDRESS  CITY  STATE  STATE  TOWN A STATE  T	☐ Telescopic Boom Crane—Sw	ring Cab (TLL): Testing on a	boom truck	? □ Yes □ No	Overhead Crane
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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. As certificants add additional designations, updated cards are issued at no additional charge. Replacement cards are available for an additional fee; order online at nccco.org/newcard.

Please provide your Test Site Coordinator with a digital color photo (without hat or sunglasses) labeled with your full name and birth date.

Alternately, a  $1\%" \times 1\%"$  color passport photo may be substituted for a digital photo; if submitting a passport photo, please give it to your Test Site Coordinator, do not mail it directly to NCCCO.

#### 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 type(s) for which you are registering.
Practical Examination Fees:
☐ One Mobile Crane type: \$70
☐ Two Mobile Crane types: \$90
☐ Three Mobile Crane types: \$110
☐ Tower Crane only: \$70
☐ Overhead Crane only: \$70
☐ Incomplete application fee (if applicable): \$30

#### METHOD OF PAYMENT FOR CANDIDATE EXAMINATION FEES

Do not send cash.

VISA	MasterCar	ra	AMERICAN EXPRESS	<ul><li>Personal check enclosed</li></ul>	☐ Employer check enclosed	Money order enclosed	Please do not staple your check or money order.
If paying by credi	it card, cor	nplete	the follow	ing information:			
CREDIT CARD NUMBER						EXPIRATION DATE	
NAME (Print as it appears o	n card)			SIGNATURE (on card)		SECURITY CODE	t code located on the card.
If using company	credit card	d, prov	ide compa	any name:		,	
Email credit card	receipt to:						
Checks and mone	v orders sl	nould k	e pavable	e 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.



### **Recertification Application**

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

Please type or print neatly. All fields marked with an asterisk (\*) must be completed or application will be considered incomplete. FULL LEGAL NAME Suffix (Jr., Sr., III) (as shown on driver's license) CCO CERTIFICATION NUMBER\* DATE OF BIRTH\* CANDIDATE ID: (if previously tested) PERSONAL MAILING ADDRESS\* CITY\* STATE\* ZIP\* COUNTRY HOME PHONE CELL PHONE\* CANDIDATE EMAIL\* (PERSONAL EMAIL UNIQUE TO CANDIDATE) COMPANY/ORGANIZATION PHONE COMPANY MAILING ADDRESS STATE COUNTRY ☐ I AM REQUESTING TESTING ACCOMMODATIONS IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA). (For details on NCCCO's Testing Accommodations policy, please see www.nccco.org/accommodations.)

#### WRITTEN EXAMINATIONS FOR WHICH YOU ARE APPLYING

This application is for recertification only. You may ONLY recertify for the designation(s) in which you are currently certified. FILL IN the circle next to the crane type(s) for which you are applying for recertification. If you would like to take Additional Examinations for cranes that you are not currently certified on, then FILL IN the examinations of your choice and CHECK the load chart you want to use for that crane type.

#### **EXAMINATIONS\***

DE	CERTIFICATION EX	/ A B/IC	LOAD CHARTS
	Core Exam	652605	(Check one for each Specialty Exam)
0	Lattice Boom Crawler (LBC)	652625 652608	☐ Terex/American☐ Manitowoc
0	Lattice Boom Truck (LBT)	652611 652635	☐ Link-Belt ☐ Manitowoc
0	Telescopic Boom— Swing Cab (TLL)	652614 652645 652646	☐ Grove (Truck Mount) ☐ Link-Belt (Rough Terrain) ☐ National (Boom Truck)
0	Telescopic Boom— Fixed Cab (TSS)	652656 652665	☐ Manitex (Boom Truck)☐ Shuttlelift (Carry Deck)
0	Tower Crane	654602	
0	Overhead Crane	653602	

ADDITIONAL EXAMIN	IATIONS		CHARTS  for each Specialty Exam)
O Lattice Boom Crawler (LBC)	652620 652607	□ Terex/ □ Manit	'American :owoc
O Lattice Boom Truck (LBT)	652609 652610	□ Link-E □ Manit	
○ Telescopic Boom— Swing Cab (TLL)	652612 652613 652618	☐ Link-E	e (Truck Mount) Belt (Rough Terrain) nal (Boom Truck)
<ul><li>○ Telescopic Boom— Fixed Cab (TSS)</li></ul>	652616 652660		ex (Boom Truck) elift (Carry Deck)
O Boom Truck—Fixed Cab (BTF)	652671	<b>⊐</b> Manit	ex (Boom Truck)
O Tower Crane	654601		
O Overhead Crane	653601		

#### **RECERTIFICATION EXAM FEES/RETEST FEES**

MOBILE CRANE OPERATOR EXAMS	
O Core Exam	\$160
O Core Exam plus one Specialty Exam	
O Core Exam plus two Specialty Exams	
O Core Exam plus three Specialty Exams	
O Core Exam plus four Specialty Exams	
O One Specialty Exam	
O Two Specialty Exams	\$95
O Three Specialty Exams	
O Four Specialty Exams	\$135
O Tower Crane Operator Written Exam  OVERHEAD CRANE OPERATOR EXAM O Overhead Crane Operator Written Exam	
	\$100
OTHER FEES	
<ul><li>Candidate Late Fee (if applicable)</li><li>Incomplete Application Fee (if applicable)</li></ul>	
TOTAL AMOUNT DUE \$	

## 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 NAME*
TEST SITE ADDRESS	
CITY	STATE ZIP COUNTRY
TEST ADMINISTRATION NUMBER*	TEST DATE*
Do you have 1,000 hours of documented crane-related expe	rience during your current certification period?*
☐ Yes, and I understand that NCCCO may, at any time, request do and if such documentation is not provided my certification may	by be impacted.
☐ No, and I understand I must take and pass the practical exam(	s) prior to my expiration date.
stand and agree that my failure to provide accurate and comprocedures, including the Code of Ethics, shall constitute growth revocation of my certification. I understand that NCCCO restion or in connection with my certification. I expressly consewith NCCCO's Information Release policy. I have read the Nall NCCCO policies and procedures—including NCCCO's sutime to time, including without limitation those posted at not certification period I fail to meet any of the requirements out bility to continue to fulfill certification requirements, I must with any subsequent investigation regarding such matters.  CANDIDATE SIGNATURE*	ounds for the rejection of my application, or denial or serves the right to verify any information in this application to NCCCO's release of any information consistent NCCCO Candidate Handbook and agree to be bound by abstance abuse policy—as they may be amended from acco.org. I understand that if at any point during my tlined above, or if matters arise that can affect my capa-
METHOD OF PAYMENT FOR CANDIDATE EXAMINATION	FEES Do not send cash.
WISA Personal che enclosed  If paying by credit card, complete the following information:	eck
CREDIT CARD NUMBER	EXPIRATION DATE
NAME (Print as it appears on card) SIGNATURE (on card)	SECURITY CODE (Three- or four-digit code located on
If using company credit card, provide company name:	the card )
Email credit card receipt to:	
Checks and money orders should be payable to: NCCCO	
Please contact your Test Site Coordinator for instructions on to submit directly to NCCCO, please send application and pa	
NCCCO—Written Exam Processing 34125 U.S. Highway 19 North, Suite 150, Pal	lm Harbor, FL 34684

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Fax: 727-461-2746

Email: writtenapps@nccco.org



## **Service Truck Crane Operator**MOBILE CRANE OPERATOR

- Program Description
- Written Exam Outline
- Practical Exam Outline
- Candidate Application—Written Examination
- Candidate Application—Practical Examination
- Recertification Application—Written Examination





# **Service Truck Crane Operator MOBILE CRANE OPERATOR**

#### **PROGRAM DESCRIPTION**

The CCO Service Truck Crane Operator certification (STC) is a subcategory of the CCO Telescopic Boom—Fixed Cab (TSS) certification [similar to the CCO Boom Truck—Fixed Cab (BTF) certification] and was developed specifically for the industries that use these smaller machines.

Service truck cranes are identified by their telescopic boom, where the base and mast structure is not integral to the stabilizer/outrigger system. Lifting is typically accomplished via a winch (electric or hydraulic) and its functions (rotation, elevation, telescoping) are either powered or manual. These machines tend to have relatively shorter boom lengths (10–35 ft.) and lower capacities (1–7 Tons) as compared to other Telescopic Boom—Fixed Cab machines (e.g., Boom Trucks, Carry Deck cranes). Additionally, operations are usually conducted by the use of radio remote or pendant control with the operator standing on the ground following the load.

Please note that the CCO Telescopic Boom—Fixed Cab Operator (TSS) and Boom Truck—Fixed Cab (BTF) certifications cover service truck cranes. Operators of service truck cranes who currently possess a TSS or BTF certification are not required to also posses the Service Truck Crane Operator certification. The reverse is not true, however. STC certification is intended only for operators of service truck cranes and not for those who operate larger Telescopic Boom—Fixed Cab or Boom Truck—Fixed Cab cranes. To be certified to operate all TSS cranes, candidates must achieve the full TSS certification (Core + TSS specialty written + TSS practical). To be certified to operate all BTF cranes, candidates much achieve the full BTF certification (Core + BTF specialty written + TSS practical taken on a boom truck).

#### **ELIGIBILITY**

To be eligible for the Service Truck Crane Operator certification, candidates must:

- · Be at least 18 years of age
- Comply with NCCCO's Substance Abuse Policy
- Pass the STC Written Exam
- Pass the STC Practical Exam
- Comply with NCCCO's Code of Ethics

#### **CCO WRITTEN EXAM**

The Service Truck Crane Operator Written Examination consists of a single comprehensive exam with 70 ques-

tions. Candidates are allowed 90 minutes to complete the exam. Please note that candidates for the Service Truck Crane Operator program are not required to take the Mobile Crane Operator Core Exam.

Candidate results are reported as a scaled score, 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.

#### **CCO PRACTICAL EXAM**

The Service Truck Crane Operator Practical Exam demonstrates crane operation proficiency. It consists of five main tasks that increase progressively in the skill level tested. Skills tested are: inspecting the equipment, hoisting, booming, swinging, following hand signals, and combination (multifunction) operations. Crane operation with load and without load is required.

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 Mobile Crane Practical Examinations.

#### **CCO CERTIFICATION TIME FRAMES**

Candidates must pass both the STC Written and Practical Exams within twelve months of each other. Candidates may take their Written and Practical Exams in either order.

#### **RECERTIFICATION REQUIREMENTS**

CCO certifications are valid for five years. Recertification requirements are detailed page 4. Candidates who can attest to at least 500 hours of 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.

Recertification candidates who 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 expires. Candidates whose certification has lapsed must take both the regular Written and Practical Examinations again to be certified again.

#### **CODE OF ETHICS FOR CERTIFIED OPERATORS**

CCO-certified service truck crane operators are required to follow the same code of ethics as all other CCO-certified operators. NCCCO's Code of Ethics can be found on page 4.

#### **DISCIPLINARY POLICY**

CCO-certified service truck crane operators are subject to the same disciplinary policy as all other CCO-certified operators. NCCCO's Disciplinary Policy can be found on page 5.

### **SUBSTANCE ABUSE POLICY**

CCO-certified service truck crane operators are required to follow the same substance abuse policy as all other CCO-certified operators. NCCCO's Substance Abuse Policy can be found on page 6.

#### **WRITTEN EXAM PROCESS**

Candidates for the service truck crane exams may take written exams either at NCCCO paper/pencil test sites or at approximately 300 PSI computer-based testing centers around the country. For more information about paper/pencil testing, see page 7; for more information about computer-based testing, see page 9.

#### **Exam Fees:**

- STC Written Exam (paper/pencil test): \$180
- STC Written Exam (computer-based test): \$250
- STC Practical Exam: \$70
- STC Recertification Exam (paper/pencil test): \$180
- STC Recertification Exam (computer-based test): \$250

#### **SAMPLE QUESTIONS**

For sample questions, please refer to page 16. For a sample service truck crane load chart question, see page 42.

#### **REFERENCES**

For a list of references, please refer to page 17.



## Written Examination Outline MOBILE CRANE OPERATOR—SERVICE TRUCK CRANES

The Service Truck Crane Operator Written Exam tests the following knowledge areas relating to the operation of service truck cranes:

#### Domain 1: Site

• Approximately 17% of test

#### **Domain 2: Operations**

· Approximately 44% of test

#### Domain 3: Technical Knowledge

· Approximately 21% of test

#### **Domain 4: Manufacturers' Load Charts**

· Approximately 17% of test

#### **DOMAIN 1: SITE**

- 1. Know the responsibilities of worksite personnel and their responsibilities concerning site conditions.
  - a. Controlling entity
  - b. Crane operator
- 2. Understand elements that affect ground stability:
  - a. Below surface (e.g., voids, tanks, loose fill)
  - b. On surface (e.g., retaining walls, slopes, excavations, depressions)
- 3. Know the proper use of supporting materials (e.g., mats, blocking, or cribbing).
- 4. Know electric power line hazards for:
  - a. Site access
  - b. Setup
- 5. Know how to identify and evaluate hazards concerning:
  - a. Access to job site
  - b. Pinch/crush points
  - c. Personnel during assembly/disassembly (outrigger/stabilizer setup)
- 6. Know how to review lift requirements with site supervision (if present).

#### **DOMAIN 2: OPERATIONS**

- 1. Know current federal regulations and industry standards, including but not limited to:
  - a. ASME B30.5
  - b. OSHA 1910.180
  - c. OSHA 1926 Subpart CC
  - d. SAE 765A
- 2. Know how to lift, swing, and place the load smoothly.

- 3. Know wire rope:
  - a. Reeving
  - b. Parts of line
- 4. Know types of signals:
  - a. Hand signals
  - b. Voice/audio signals
  - c. Audible signals
  - d. New or non-standard signals
- 5. Know how to shut down and secure the crane when leaving it unattended.
- 6. Know the limitations of operating in various weather conditions (e.g., wind, temperature).
- 7. Know how to obtain dimensions, weight, and center of gravity of the load. Know how to verify the radius.
- 8. Know basic procedures for rigging devices and their use, such as: slings, softeners, lifting beams, and shackles.
- 9. Know proper use of hook blocks and downhaul weights.
- 10. Know proper procedures and requirements for crane inspections:
  - a. Shift
  - b. Monthly
  - c. Annual
  - d. Repaired/modified
  - e. Notifying supervision of inspection deficiencies
- 11. Know and understand the use and function of operator aids, including:
  - a. Load moment indicator (LMI)
  - b. Anti-two block device/two-block damage prevention systems
  - c. Boom angle indicator
  - d. Boom length indicator
- 12. Know alternative operating procedures when operator aids malfunction.
- 13. Know and understand the use and function of safety devices, including:
  - a. Horns
  - b. Level indicator
  - c. Holding/check valve devices
  - d. Emergency stop
- 14. Know the proper procedures for operating safely near energized power lines.

- 15. Know the effects of lifting loads from beneath the surface of the water.
- 16. Know the requirements and procedures for when load is not in full view of the operator.
- 17. Know the requirements of tag lines.
- 18. Know how to react to:
  - a. Electric power line contact
  - b. Loss of stability
  - c. Control malfunction
  - d. Block and line twisting
  - e. Personnel under the load or in the fall zone
- 19. Know how to properly use outriggers/stabilizers, including the use of operational assist devices, such as outrigger/stabilizer position sensor monitors.
- 20. Know the effects of dynamic loading from:
  - a. Wind, extreme weather and wave action
  - b. Impact loading
  - c. Moving loads
  - d. Boom deflection
  - e. Side loading
- 21. Know how to use manufacturer-approved attachments and their effect on the crane's operation
- 22. Know the emergency response procedures for a vehicle fire
- 23. Know the effects of load share and load transfer in multi-crane lifts
- 24. Know the operator's authority to stop operations
- 25. Know how to react to changes in conditions that affect the safe operation of the crane

#### **DOMAIN 3: TECHNICAL KNOWLEDGE**

- 1. Know basic crane terminology and definitions.
- 2. Know functions and limitations of cranes and attachments.
- 3. Know general maintenance and lubrication requirements.
- 4. Know wire rope:
  - a. Construction and classification
  - b. Replacement criteria and inspection procedures
  - c. Capacity and multi-part rope requirements
  - d. Maintenance and lubrication
  - e. Implementing proper corrective measures
- Know relationship between line pull and safe working load.

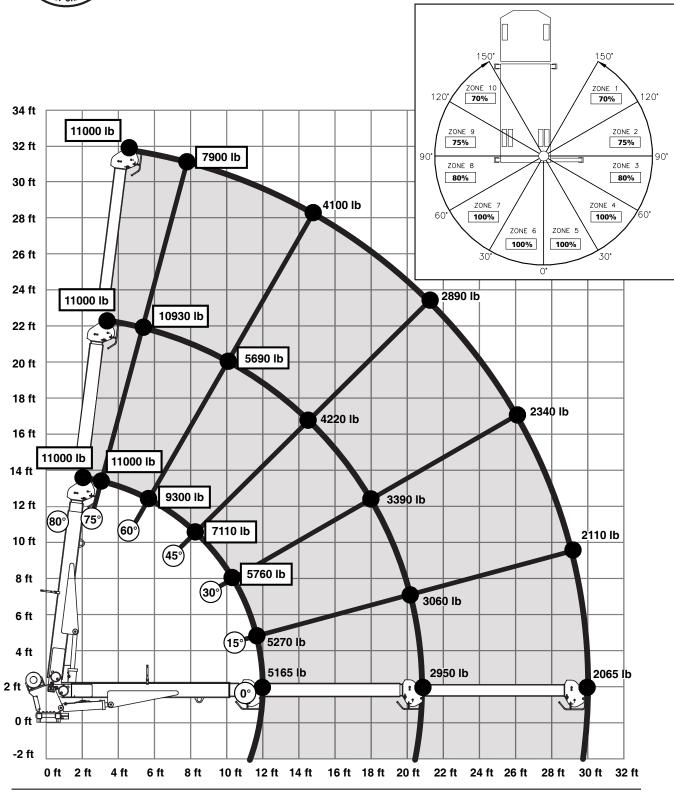
- Know the limitations of protective measures against electrical hazards.
- 7. Know the significance of instruments, gauges, and machine power readings.
- Know the requirements of standard and optional controls.
- 9. Know the emergency response procedure for:
  - a. Overloading
  - b. Two-blocking
- 10. Know power systems (e.g., hydraulic, electrical).

#### **DOMAIN 4: MANUFACTURERS' LOAD CHARTS**

- 1. Know terminology necessary to use load charts.
- 2. Know basic math.
- 3. Understand different elements of load charts:
  - a. Apply load chart notes
  - b. Rated capacity charts
  - c. Stability charts
- 4. Understand and apply manufacturer's load charts given various configurations:
  - a. Determining maximum radius for load placement
  - b. Determining gross capacity
  - c. Determining net capacity
  - d. Determining load moment
  - e. Determining intermediate values on capacity charts (boom length, radius, boom angle)
- 5. Know how to calculate net capacity, including factors such as:
  - a. Rigging weight
  - b. Limiting factors (e.g. line pull restriction, winch capacity)
  - c. Intermediate values on capacity charts (boom length, radius, boom angle)
- 6. Read and locate relevant information in the equipment manual and other materials containing information necessary for safe operation.



# Sample Service Truck Crane Load Chart MOBILE CRANE OPERATOR—SERVICE TRUCK CRANES



Max single part line: 5500 lb.

\*\*\*\* Ib Two Part Line Required



# Sample Load Chart Question MOBILE CRANE OPERATOR—SERVICE TRUCK CRANES

Boom Length:	Fully Extended	Parts of Line:	1 part
Boom Angle:	30 degrees	Rigging:	N/A
Radius:	N/A	Load Block:	N/A
Lift Zone:	Zone 4		

- 1. In the configuration above, what is your gross capacity?
  - (A) 2,340 lb.
  - (B) 2,110 lb.
  - (C) 2,065 lb.
  - (D) 3,390 lb.

A	l
<b>Answer</b>	# noitseuQ



## Practical Examination Outline MOBILE CRANE OPERATOR—SERVICE TRUCK CRANES

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 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 tasks that make up the Practical Examination are:

- Task 1: Pre-Operational Inspection
- Task 2: Chain in Circle
- Task 3: Test Weight in Pole Circle
- Task 4A: Zigzag Corridor (Forward)
- Task 4B: Zigzag Corridor (Reverse)
- Task 5: Safe Shutdown Procedures

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

You must report to the Test Site at the scheduled time.

All candidates must comply with Test Site requirements concerning personal protective equipment (PPE), which at a minimum shall meet federal OSHA requirements.

The Test Site Coordinator is responsible for setting the test 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 manual and load charts. Otherwise, selection shall be by random drawing or by assignment of the Test Site Coordinator.

If you bring your own crane to test on, ensure that its annual inspections are up-to-date and the crane is in fully working order.

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**

For Tasks 2 through 4b, an optimum time limit has been set. If the task is completed within this time period, you receive no time penalty.

#### **PRE-TEST BRIEFING**

While candidates are waiting to take their tests, they 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(s) they will operate. In addition, they will be informed of the make and model of the crane, the boom length, and the weight of the test load. They will also watch a short video showing all the tasks they will be required to perform during the examination. This video is also available on the NCCCO website and candidates must view it within 24 hours before their practical exam(s).

#### 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. A spirit level is available to verify that the crane is level.
- 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 Service Truck Crane Operator Practical Exams is defined as when:

- 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
- Chain leapfrogs from one leg of corridor to another with the chain off the ground, outside the corridor
- 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.

#### **UNSAFE ACT**

If at any time 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 any 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 valid (not expired) government-issued photo identification that includes date of birth, such as a driver's license.

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

### WEATHER CONDITIONS AND 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 4A or Task 4B, when you will go back to the beginning of the task, 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 1: PRE-OPERATIONAL INSPECTION**

- You will be asked to identify five items on the crane that are part of the pre-operational inspection.
- One at a time, you will be asked to 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 five 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 brakes and other devices have been set according to the crane manufacturer's recommendation.
- You may not interfere with the test course, lift the Test Weight, or shadow the Zigzag Corridor.
- You must finish the Pre-test Familiarization Period with the load hook under control and the chain on the ground in Designated Area 1 within the five-minute period.
- The Examiner will notify you when there is one minute remaining.
- If you are ready in less than five minutes, you may indicate this to the Examiner.
- If, at the end of the Pre-Test Familiarization
  Period, you feel that 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 2: CHAIN IN CIRCLE**

Optimum Time: 1½ minutes

- At the examiner's indication to start, at which point timing will begin, raise the chain to clear all obstacles and test personnel.
- Bring the chain from its starting position inside Designated Area 1 (DA-1) over to Designated Area 2 (DA-2), and land the chain fully inside the circle.
- Once the chain makes contact with the ground inside the circle, do not lift the chain off the ground.

- Avoid contacting anything but DA-2.
- Once the chain is under control inside the circle, the Examiner will give you a *stop* signal.
- Points will be deducted for the following:
  - a. Dragging chain or contacting ground outside of the circle
  - b. Hook touching the ground either inside or outside of the circle
  - c. Hook or chain contacting any part of the course or crane
  - 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

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

#### **TASK 3: TEST WEIGHT IN POLE CIRCLE**

#### Optimum Time: 2 minutes

- At the Examiner's indication to start, timing will begin.
   Lift the Test Weight from the Test Weight Area and place it in DA-3.
- Once the Test Weight is in DA-3, the Examiner will give you the *stop* signal.
- If your time exceeds twice the optimum time, the Examiner may stop you and move on to the next task.
- Points will be deducted for the following:
  - a. Load touching ground outside of designated area
  - b. Knocking ball off pole
  - c. Knocking pole over
  - d. Exceeding the optimum time

#### **TASK 4A: ZIGZAG CORRIDOR (FORWARD)**

#### Optimum Time: 51/2 minutes

- At the Examiner's indication to start, timing will begin.
   Guide the Test Weight through the Corridor. You will be permitted to use all of the crane's functions during this task.
- Avoid contacting anything; do not lift the chain off the ground; do not let the Test Weight touch the ground.
- Place the Test Weight inside DA-2. Once the Test
  Weight is inside the Designated Area, the Examiner
  will give you the *stop* signal. If the Test Weight is not
  within the outside perimeter of DA-2, timing will
  continue.
- If your time exceeds twice the optimum time, the Examiner may stop you and move on to the next task.
- 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 the chain off the ground
  - f. Load touching ground outside of designated area
  - g. Load touching the outriggers/stabilizers
  - h. Circumventing the course
  - i. Exceeding the optimum time

#### **TASK 4B: ZIGZAG CORRIDOR (REVERSE)**

#### **Optimum Time: 6 minutes**

- At the examiner's indication to start, timing will begin.
   Guide the Test Weight through the Corridor. You will not be permitted to use the telescoping function during this task.
- Avoid contacting anything; do not lift he chain off the ground; do not let the Test Weight touch the ground.
- Place the Test Weight inside DA-1. Once the Test
  Weight is inside the Designated Area, the Examiner
  will give you the *stop* signal. If the Test Weight is not
  within the outside perimeter of DA-1, timing will
  continue.
- If your time exceeds twice the optimum time, the Examiner may stop you and move on to the next task.
- 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 the chain off the ground

- f. Load touching ground outside of designated area
- g. Load touching the outriggers/stabilizers
- h. Circumventing the course
- i. Exceeding the optimum time

#### **TASK 5: SAFE SHUTDOWN PROCEDURES**

• The Examiner will ask you to describe the safe shutdown procedures you would apply to the crane in preparation to leave the site.

#### **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 12 working days of NCCCO's receipt of the score sheet.
- If you have made formal applications to test on any other cranes, return to the candidate briefing area.
- If you have completed all of your tests, you must leave the Test Site.



### **Candidate Application**

### **WRITTEN EXAMINATION—SERVICE TRUCK CRANE OPERATOR (PAPER/PENCIL TEST ONLY)**

FULL LEGAL NAME FIRST* (as shown on driver's license)	Mi	ddle	LAST*	Suffix (Jr., Sr., I
CCO CERTIFICATION NUMBER (if previous	ly certified) DATE OF B	0, 1	NDIDATE ID: previously tested)	
PERSONAL MAILING ADDRESS*				
CITY*		STATE*	ZIP*	COUNTRY
HOME PHONE	CELL PHONE*	CANDIDATE	E EMAIL* (PERSONAL EN	MAIL UNIQUE TO CANDIDATE)
COMPANY/ORGANIZATION			PHONE	
COMPANY MAILING ADDRESS				
CITY		STATE	ZIP	COUNTRY
☐ I AM REQUESTING TESTING (For details on NCCCO's				
MA/DITTENI EVANAINIATION	I FOR WUICH VOU AF	F ADDIVING		
WRITTEN EXAMINATION FILL IN the appropriate circ.				

### WRITTEN EXAM/RETEST FEES\*

○ Service Truck Crane Operator Written Exam (655101)	\$180
OTHER FEES	
○ Candidate Late Fee (if applicable)	
O Incomplete Application Fee (if applicable)	\$30
TOTAL AMOUNT DUE	\$

### **CANDIDATE APPLICATION (CONT'D)** WRITTEN EXAMINATION—SERVICE TRUCK CRANE OPERATOR

TEST SITE NAME	TEST	SITE COOR	DINATOR NAM	IE*	
TEST SITE ADDRESS					
СІТУ	STATI	E	ZIP	COUNTR	RY
TEST ADMINISTRATION NUMBER*	TEST	DATE*	I	11	
I declare that the foregoing statements and stand and agree that my failure to provide procedures, including the Code of Ethics, so revocation of my certification. I understant cation or in connection with my certification with NCCCO's Information Release policy, by all NCCCO policies and procedures—information time to time, including without limits my certification period I fail to meet any of capability to continue to fulfill certification cooperate with any subsequent investigation.	e accurate and complete hall constitute ground that NCCCO reserved on. I expressly consented the NCC acluding NCCCO's substitution those posted at a fifthe requirements, I must requirements, I must hall complete and the requirements, I must requirements, I must hall complete and the requirements, I must requirements.	ete inford ds for the es the rig t to NCC CO Can destance descoord tlined al t report	mation or e rejection ght to verij CCO's relea didate Ha abuse poli gs. I unders bove, or if i	abide by NCCCC of my applicatio fy any informations of any informations of any informations and agramates they may stand that if at a matters arise tha	O's policies and on, or denial or on in this application consistent ee to be bound be amended ny point during at can affect my
METHOD OF PAYMENT FOR CANDIDATE	EXAMINATION FEES	5		Do not sen	d cash.
WISA MasterCard AMERICAN EQUIES	☐ Personal check ☐ enclosed	□ Emplo	•	☐ Money Order enclosed	Please do not staple your check or money order.
If paying by credit card, complete the follow CREDIT CARD NUMBER	ving information:			EXPIRATION DATE	
NAME (Print as it appears on card)	SIGNATURE (on card)			SECURITY CODE	t code located on the card

Checks and money orders should be payable to:  ${\sf NCCCO}$ 

Email credit card receipt to:

Please contact your Test Site Coordinator for instructions on where to submit written exam applications. If instructed to submit directly to NCCCO, please send application and payment to:

> NCCCO—Written Exam Processing 34125 U.S. Highway 19 North, Suite 150, Palm Harbor, FL 34684

If using company credit card, provide company name:

Fax: 727-461-2746

Email: writtenapps@nccco.org



# Candidate Application PRACTICAL EXAMINATION—SERVICE TRUCK CRANE OPERATOR

Please type or print neatly. All fields marked with an asterisk (\*) must be completed or application will be considered incomplete

FULL LEGAL NAME FIRST* (as shown on driver's license)	Middle	<i>,</i>	LAST*	Suffix (Jr., Sr., III)
CCO CERTIFICATION NUMBER (if previously certified)	DATE OF BIRTH*	CANDIDA (if previo	ATE ID: usly tested)	
PERSONAL MAILING ADDRESS*		1 '		
CITY*		STATE*	ZIP*	COUNTRY
HOME PHONE CELL PHO	NE*	CANDIDATE EMA	NIL* (PERSONAL EMAIL	LUNIQUE TO CANDIDATE)
COMPANY/ORGANIZATION			PHONE	
COMPANY MAILING ADDRESS				
CITY		STATE	ZIP	COUNTRY
INDICATE WITH A CHECK THE EQUIP	MENT YOU WISH	TO BE TESTED	ON*:	
☐ Service Truck Crane				
TEST SITE AT WHICH YOU INTEND T	O TAKE THE PRAC	TICAL EXAMIN		
TEST SITE COORDINATOR NAME*			PE SITE #:*	
PHONE		EMAIL		
TEST SITE ADDRESS				
CITY		STATE	ZIP	COUNTRY
I declare that the foregoing statement understand and agree that my failure and procedures, including the Code of or revocation of my certification. I un application or in connection with my consistent with NCCCO's Information to be bound by all NCCCO policies as be amended from time to time, include physically and mentally capable of sa Candidate Handbook on the day of the property damage resulting from or cashall not be the responsibility of NCC meet any of the requirements outlined certification requirements, I must rep investigation regarding such matters.	e to provide accurate f Ethics, shall constolers derstand that NCC certification. I expense policy. I had procedures—incularly operating equipment of the Practical Examused in any way by CO. I understand the labove, or if matters or to NCCCO im	te and complete itute grounds fo CO reserves the ressly consent to ave read the NC luding NCCCO tion those posted pment and/or p I understand and my participation if at any points arise that can	information of the rejection right to verify of NCCCO's relected CCCO Candidates substance about a dagree that a continuing my caffect my caper and caper that a continuing my caffect my caper affect my caper and caper that a continuing my caffect my caper affect my caper and caper that a continuing my caper affect my caper affect my caper affect my caper and caper	or abide by NCCCO's policies of my application, or denial any information in this case of any information ate Handbook and agree buse policy—as they may I further attest that I am tasks described in the cast personal injury and/or Practical Exam is not and certification period I fail to ability to continue to fulfill

### **CANDIDATE APPLICATION (CONT'D)**

#### PRACTICAL EXAMINATION—SERVICE TRUCK 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. As certificants add additional designations, updated cards are issued at no additional charge. Replacement cards are available for an additional fee; order online at nccco.org/newcard.

Please provide your Test Site Coordinator with a digital color photo (without hat or sunglasses) labeled with your full name and birth date.

Alternately, a  $1\%" \times 1\%"$  color passport photo may be substituted for a digital photo; if submitting a passport photo, please give it to your Test Site Coordinator, do not mail it directly to NCCCO.

#### PRACTICAL EXAMINATION FEE

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 appropriate fees:

- ☐ Service Truck Crane Operator Practical Exam: \$70
- ☐ Incomplete application fee (if applicable): \$30

#### METHOD OF PAYMENT FOR CANDIDATE EXAMINATION FEES

Do not send cash.

Wisa MasterCard AMERICAN EXPRESS	<ul><li>Personal check enclosed</li></ul>	<ul><li>☐ Employer check enclosed</li></ul>	<ul><li>Money order enclosed</li></ul>	Please do not staple your check or money order.
If paying by credit card, complete the follow	wing information:			
CREDIT CARD NUMBER			EXPIRATION DATE	
NAME (Print as it appears on card)	SIGNATURE (on card)		SECURITY CODE Three- or four-digi	t code located on the card.
If using company credit card, provide comp	pany name:			
Email credit card receipt to:				
Checks and money orders should be payable	le 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.



### **Recertification Application**

### **WRITTEN EXAMINATION—SERVICE TRUCK CRANE OPERATOR (PAPER/PENCIL TEST ONLY)**

FULL LEGAL NAME (as shown on driver's license)	FIRST*	Middle		LAST*	Suffix (Jr., Sr.,	II)
CCO CERTIFICATION NUMBER*		DATE OF BIRTH*		NDIDATE ID: reviously tested)		
PERSONAL MAILING ADDRESS	*					
CITY*			STATE*	ZIP*	COUNTRY	_
HOME PHONE	CELL	PHONE*	CANDIDATE	EMAIL* (PERSONAL EM	MAIL UNIQUE TO CANDIDATE)	
COMPANY/ORGANIZATION				PHONE		
COMPANY MAILING ADDRESS						
CITY			STATE	ZIP	COUNTRY	
		ODATIONS IN COMPLIANC				
WRITTEN EXAMINA  FILL IN the appropriate		HICH YOU ARE APPLY for correct fees.	ING			

#### WRITTEN EXAM/RETEST FEES\*

OTHER FEES	
○ Candidate Late Fee (if applicable)	\$50
O Incomplete Application Fee (if applicable)\$3	

## RECERTIFICATION APPLICATION (CONT'D) WRITTEN EXAMINATION—SERVICE TRUCK CRANE OPERATOR

#### TEST SITE AT WHICH YOU INTEND TO TAKE THE WRITTEN EXAMINATION

TEST SITE NAME	TEST SITE COOF	RDINATOR NAME	*	
TEST SITE ADDRESS	I			
СІТУ	STATE	ZIP	COUNTR	Y
TEST ADMINISTRATION NUMBER*	TEST DATE*			
Do you have 500 hours of documented crane-related experie	ence during	your curren	t certification po	eriod?*
☐ Yes, and I understand that NCCCO may, at any time, request do and if such documentation is not provided my certification may			ed in order to ver	ify my experience,
$\hfill\square$ No, and I understand I must take and pass the practical exam	prior to my e	xpiration date	е.	
procedures, including the Code of Ethics, shall constitute green revocation of my certification. I understand that NCCCO restion or in connection with my certification. I expressly consewith NCCCO's Information Release policy. I have read the Nall NCCCO policies and procedures—including NCCCO's sutime to time, including without limitation those posted at nacertification period I fail to meet any of the requirements ou bility to continue to fulfill certification requirements, I must with any subsequent investigation regarding such matters.  CANDIDATE SIGNATURE*	serves the rig nt to NCCCo ICCCO Can abstance abu ccco.org. I un tlined above	ght to verify on the control of the	any information f any informatio lbook and agree as they may be a pat if at any poin rs arise that can	in this applica- on consistent to be bound by mended from at during my affect my capa-
METHOD OF PAYMENT FOR CANDIDATE EXAMINATION	FEES		Do not send	d cash.
☐ <b>VISA</b> ☐ MasterCard ☐ AMERICAN ☐ Personal che enclosed  If paying by credit card, complete the following information:	ck 🗖 Emplo enclo		☐ Money Order enclosed	Please do not staple your check or money order.
CREDIT CARD NUMBER			EXPIRATION DATE	
NAME (Print as it appears on card)  SIGNATURE (on card)			SECURITY CODE	t code located on the card.
If using company credit card, provide company name:				
Email credit card receipt to:				
Checks and money orders should be payable to: NCCCO				
Please contact your Test Site Coordinator for instructions on	where to sul	bmit written	exam applicati	ons. If instructed

Please contact your Test Site Coordinator for instructions on where to submit written exam applications. If instructed to submit directly to NCCCO, please send application and payment to:

NCCCO—Written Exam Processing

34125 U.S. Highway 19 North, Suite 150, Palm Harbor, FL 34684

Fax: 727-461-2746

Email: writtenapps@nccco.org



### **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—Customer Service Department 2750 Prosperity Ave., Suite 505 Fairfax, VA 22031-4312

Phone: 703-560-2391 ext. 801 Email: candidate@nccco.org

FULL LEGAL NAME (as shown on driver's license)	RST*	Middle		LAST*	Suffix (Jr., S
		1			
CCO CERTIFICATION NUMBER		DATE OF BIRTH*		CANDIDATE ID	
OLD ADDRESS					
PERSONAL MAILING ADDRESS*					
CITY*			STATE*	ZIP*	COUNTRY
HOME PHONE	CELL PHO	NE*	CANDIDATE	EMAIL* (PERSONAL EMA	AIL UNIQUE TO CANDIDATE)
COMPANY / ORGANIZATION				COMPANY PHONE	
COMPANY MAILING ADDRESS			11		
CITY			STATE	ZIP	COUNTRY
NEW ADDRESS					
PERSONAL MAILING ADDRESS*					
CITY*			STATE*	ZIP*	COUNTRY
HOME PHONE	CELL PHO	NE*	CANDIDATE	EMAIL* (PERSONAL EMA	AIL UNIQUE TO CANDIDATE)
COMPANY / ORGANIZATION	11			COMPANY PHONE	
COMPANY MAILING ADDRESS					
CITY			STATE	ZIP	COUNTRY
EFFECTIVE DATE OF CHA	NGF		11	11	11



### **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. In the case of accredited Practical Examiners, "Releasable Information" also means and refers to the following information: name, accreditation status, accreditation dates, accreditation number, and categories in which the Practical Examiner is authorized to administer exams.
- 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**

- 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.
   In addition, it shall be the policy of NCCCO to provide
   information, as appropriate, concerning individuals
   who have been sanctioned, suspended or revoked from
   participation in NCCCO's programs, using such protocols
   as may be established.
- 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 an accredited Practical Examiner, authorized Test Site Coordinator, listed Training Provider, or other authorized participant in NCCCO's programs ("Authorized Participant") 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 Authorized Participant is under formal investigation, sanction, suspension, or revocation by NCCCO, then NCCCO may release a statement concerning the status of the Authorized Participant to any persons and by any reasonable means, including by means of a list published on the NCCCO website. Any such statement may identify the Authorized Participant, the credentials or capacities affected, the actions taken, and the effective dates of any such actions.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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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