



CCO

CANDIDATE HANDBOOK

- **RIGGER LEVEL I**
- **RIGGER LEVEL II**

®



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Introduction

RIGGER

DEFINITION OF A RIGGER

A certified *rigger* is a person who has been trained and certified to handle and move loads. The level of certification depends upon the individual's training, knowledge, skill base, and ability to perform functions related to the selection, inspection, and proper use of rigging equipment.

This person may be qualified in a craft or trade and carry an occupational title such as iron worker, electrician, carpenter, millwright, mechanic, laborer, mason, long-shoreman, lineman, pipe fitter, boilermaker, and the like. (The persons described in the categories above will be referred to as *rigger* even though they carry another occupational title.)

As applicable, Level II Riggers will also have a working knowledge of hoisting equipment, winches, jacks, industrial rollers, and similar equipment.

CERTIFIED RIGGER LEVEL I

CCO identified the following job duties for Rigger Level I certification. They can perform simple, repetitive rigging tasks when the load weight, center of gravity, the rigging, and rigging configuration are provided or known by the rigger through experience or on-the-job training prior to the rigging activities. Specifically, Level I Riggers should be able to demonstrate or have knowledge of how to:

- Inspect rigging before use
- Identify, select, and attach rigging with basic knowledge of hitch configurations, capacities, and basic knots
- Recognize associated hazards
- Use various types of rigging equipment and basic hitches and their applications

CERTIFIED RIGGER LEVEL II

In addition to knowing and demonstrating Rigger Level I knowledge and skills, a certified Rigger Level II can select rigging components and procedures based on rigging capacity. A Level II Riggers can perform the following rigging tasks unsupervised:

- Estimate weight and center of gravity when calculations are required
- Identify lift points
- Determine and select rigging based on loading
- Perform pre-use inspection of rigging and lift points
- Identify, select, and attach rigging with knowledge of hitch configurations and load angle factors, rigging capacities, and load integrity
- Understand load dynamics and associated hazards



Certification Policies

RIGGER LEVEL I & RIGGER LEVEL II

ELIGIBILITY

To be eligible for certification, candidates must:

- Be at least 18 years of age
- Comply with CCO's Substance Abuse Policy
- Comply with the Code of Ethics for Certified Riggers
- Pass written examination(s)
- Pass practical examination(s)

EXAMINATION FEES

For all exam and related fees, visit www.nccco.org/fees.

CERTIFIED RIGGER LEVEL I EXAMS

Written Examination

The CCO Rigger Level I Written Examination consists of 60 multiple-choice questions. Candidates are allowed 60 minutes to complete the test.

Practical Examination

The successful completion of a CCO Rigger Level I Practical Examination demonstrates a candidate's basic rigging competency.

CERTIFIED RIGGER LEVEL II EXAMS

Written Examination

The CCO Rigger Level II Written Examination consists of 50 multiple-choice questions. Candidates are allowed 60 minutes to complete the test.

Practical Examination

The successful completion of a CCO Rigger Level II Practical Examination demonstrates a candidate's competency in rigging a load for a level lift and for rotating a load.

CERTIFICATION TIME FRAMES

Candidates have 12 months from the time they pass their first written or practical exam for each rigger level in which to pass the corresponding (written or practical) exam.

Any tests passed within a 12-month period count towards certification. For example, a candidate who fails the Rigger Level I Written Exam in December 2024 but passes the Rigger Level I Practical Exam in January 2025 has until the end of January 2026 to retake (and pass) the Rigger Level I Written Exam.

If a certified rigger subsequently becomes certified in an additional rigger designation, the certification period for the additional designation expires at the same time his/her original certification (i.e., all rigger 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 rigger designations maintain the same expiration date.

RECERTIFICATION

CCO Rigger certifications are valid for five years.

Candidates must complete all of their recertification requirements during the 12 months prior to their certification's expiration date. Regardless of the date of the exams within that one-year period, the new five-year certification period begins from the date of expiration of the candidate's initial certification.

Recertificants must:

- Pass the applicable Rigger written examination
- Comply with CCO's Substance Abuse Policy
- Comply with CCO's Code of Ethics

There is no grace period after certification has expired. Candidates whose certification has lapsed must take the full written **and** practical examinations to be certified again.

NOTE: Rigger Level II certificants must only take and pass the Rigger Level II written exam to maintain both Rigger Level I and Rigger Level II certifications. If a Rigger Level II recertification candidate fails the written exam twice, he/she is required to take the Rigger Level I and Rigger Level II written exams again to maintain certification.

There is no requirement for a practical examination for recertification.

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

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

ADDING RIGGER LEVEL II TO EXISTING RIGGER LEVEL I CERTIFICATION

Rigger Level I certificants are encouraged to “step up” to Rigger Level II when they feel they are ready for the more challenging exams. Rigger Level II can be added at any time; however, if a Rigger Level I certificant is in the final year of certification, the certificant may take the Rigger Level II written exam in place of the Rigger Level I written exam. In order to achieve full Rigger Level II certification, the candidate must pass the practical exam within 12 months of passing the Rigger Level II written exam. Candidates stepping up to Rigger Level II are encouraged to take the Rigger Level II written and practical exams at the same time or to take the Rigger Level II practical exam first.



Written Examination Outline

RIGGER LEVEL I

60 QUESTIONS/60 MINUTES (CALCULATOR NOT PERMITTED)

The CCO Rigger Level I Written Examination tests the following knowledge areas relating to rigging:

Domain: Scope of the Rigging Activity

- Approximately 15% of test

Domain: Technical Knowledge

- Approximately 13% of test

Domain: Inspection

- Approximately 30% of test

Domain: Execution of Rigging Activity

- Approximately 42% of test

DOMAIN: SCOPE OF THE RIGGING ACTIVITY

- Know how to identify the load's travel path
- Know how to identify load characteristics
 - Know how to verify the load weight
 - Know how to identify the attachment points
- Recognize special handling requirements
- Recognize unsafe rigging practices
 - Pinch points
 - Need for softeners
 - Load stability
 - Shock load
 - Side load
 - Body positioning
 - Electrical hazards
- Know how to identify hazards
- Know how to communicate a hazard identification

DOMAIN: TECHNICAL KNOWLEDGE

- Understand and apply ASME non-inspection standards
 - ASME B30.9: Slings
 - ASME B30.10: Hooks
 - ASME B30.20: Below-the-Hook Lifting Devices
 - ASME B30.26: Rigging Hardware

- Understand and apply OSHA non-inspection regulations
 - 1910.184: Materials Handling and Storage
 - 1926.251: Rigging Equipment for Material Handling
 - 1926.1431: Hoisting Personnel

DOMAIN: INSPECTION

- Know ASME frequent inspection standards
 - B30.9: Slings
 - B30.10: Hooks
 - B30.20: Below-the-Hook Lifting Devices
 - B30.26: Rigging Hardware
- Know OSHA frequent inspection regulations
 - 1910.184: Materials Handling and Storage
 - 1926.251: Rigging Equipment for Material Handling

DOMAIN: EXECUTION OF RIGGING ACTIVITY

- Know how to use slings
 - Chain
 - Wire rope
 - Metal mesh
 - Synthetic rope
 - Synthetic web
 - Synthetic round
- Know how to use rigging hardware
 - Shackles
 - Adjustable hardware
 - Links, rings, and swivels
 - Rigging blocks
 - Hooks
 - Hoists
 - Dollies, skates, and rollers
 - A-frames
 - Trolleys
 - Compression hardware
 - Beam clamps
 - Softeners
 - Eyebolts
 - Swivel hoist rings
 - Jacks

- Know how to use below-the-hook lifting devices
 - Structural (lifting beams)
 - Plate clamps
 - Beam and girder clamps
- Know proper use of tag lines
 - Know proper use of basic knots
- Know post-load movement activities
 - Know how to secure the load
 - Know how to disconnect the rigging
 - Know how to stow the gear



Written Examination Outline

RIGGER LEVEL II

50 QUESTIONS/60 MINUTES (CALCULATOR PERMITTED)

The CCO Rigger Level II written examination tests the following knowledge areas relating to rigging:

Domain: Scope of the Rigging Activity

- Approximately 15% of test

Domain: Planning the Rigging Activity

- Approximately 15% of test

Domain: Selection of Rigging Components

- Approximately 34% of test

Domain: Technical Knowledge

- Approximately 13% of test

Domain: Inspection

- Approximately 10% of test

Domain: Execution of Rigging Activity

- Approximately 13% of test

Note: The Rigger Level II Recertification Exam also includes questions from the following Rigger Level I content domains:

- Inspection
- Execution of Rigging Activity

DOMAIN: SCOPE OF THE RIGGING ACTIVITY

- Know how to identify the load to be moved
- Know how to identify the load's travel path
- Know how load is to be positioned
- Know how to identify load characteristics
 - Know how to calculate the load weight
 - Know how to determine the center of gravity
 - Know how to calculate the load dimensions
 - Know how to identify the attachment points
 - Know any special handling requirements
 - » Know the load composition
 - » Know the load's structural integrity
 - Recognize special handling requirements
- Recognize unsafe rigging practices
 - Load stability
- Knowledge necessary to identify hazards
- Knowledge necessary to communicate hazards

DOMAIN: PLANNING THE RIGGING ACTIVITY

- Know how to determine rigging equipment requirements
- Know lifting characteristics of the rigging equipment
- Know how to verify that the rigging can be removed
- Know the responsibilities of the signalperson
- Know the responsibilities of the equipment operator
- Know the responsibilities of the lift director
- Know how to calculate tensions on slings and rigging hardware

DOMAIN: SELECTION OF RIGGING COMPONENTS

- Know how to select slings
 - Chain
 - Wire rope
 - Metal mesh
 - Synthetic rope
 - Synthetic web
 - Synthetic round
- Know how to select rigging hardware
 - Shackles
 - Adjustable hardware
 - Turnbuckles
 - Chain hardware
 - Links, rings, and swivels
 - Rigging block
 - Hooks
 - How to select hoists
 - » Air
 - » Lever
 - » Electric
 - » Manual (chain falls)
 - Dollies/skates/rollers
 - A-frames
 - Trolley
 - Know how to select compression hardware
 - » Wire rope clips
 - » Wedge sockets
 - Beam clamps
 - Softeners
 - Eyebolts
 - Swivel hoist rings
 - Jacks

- Know how to identify below-the-hook lifting devices
 - Structural (lifting beams)
 - Mechanical lifting devices (including vacuum lifting devices)
 - Close proximity operated lifting magnets
 - Remotely operated lifting magnets
 - Scrap and material handling grapples
 - Plate clamps
 - Beam/girder clamps

DOMAIN: TECHNICAL KNOWLEDGE

- Understand and apply ASME non-inspection standards
 - ASME B30.5: Mobile and Locomotive Cranes
 - ASME B30.9: Slings
 - ASME B30.10: Hooks
 - ASME B30.20: Below-the-Hook Lifting Devices
 - ASME B30.26: Rigging Hardware
- Understand and apply OSHA non-inspection regulations
 - 1910.184: Materials Handling and Storage
 - 1926.251: Rigging Equipment for Material Handling
 - 1926.1431: Hoisting Personnel

DOMAIN: INSPECTION

- Know ASME periodic inspection standards
 - B30.9: Slings
 - B30.10: Hooks
 - B30.20: Below-the-Hook Lifting Devices
 - B30.26: Rigging Hardware
- Know OSHA periodic inspection regulations
 - 1910.184: Materials Handling and Storage
 - 1926.251: Rigging Equipment for Material Handling

DOMAIN: EXECUTION OF RIGGING ACTIVITY

- Know how to use slings
 - Chain
 - Wire rope
 - Metal mesh
 - Synthetic rope
 - Synthetic web
 - Synthetic round

- Know how to use rigging hardware
 - Shackles
 - Adjustable hardware
 - » Turnbuckles
 - » Chain hardware
 - Links, rings, and swivels
 - Rigging block
 - Hooks
 - Hoists
 - » Air
 - » Lever
 - » Electric
 - » Manual
 - Dollies/skates/rollers
 - A-frames
 - Trolley
 - Compression hardware
 - » Wire rope clips
 - » Wedge sockets
 - Beam clamps (used as attachment point)
 - Softeners
 - Eyebolts
 - Swivel hoist rings
 - Jacks
- Know how to use below-the-hook lifting devices
 - Structural (lifting beams)
 - Mechanical lifting devices
 - Close proximity operated lifting magnets
 - Remotely operated lifting magnets
 - Scrap and material handling grapples



Practical Examination

RIGGER LEVEL I & RIGGER LEVEL II

SKILLS TESTED

Certified Rigger Level I Practical Exam

The Rigger Level I Practical Examination is comprised of four main tasks that increase progressively in the skill level tested. Candidates' skills are tested in demonstrating pre-use rigging inspection, rigging hitches, rigging connections, and basic knots. Candidates are allowed 60 minutes to complete the exam.

Certified Rigger Level II Practical Exam

The Rigger Level II Practical Examination is comprised of two tasks. Candidates' skills are tested in performing a level lift and rigging frame rotation. Candidates are allowed 15 minutes to complete the level lift task and 30 minutes to complete the frame rotation task.

The following is an outline of the practical testing procedure for Rigger Level I certification.

CANDIDATE INFORMATION AND INSTRUCTIONS

Candidates must report to the test site at the scheduled time. The Test Site Coordinator is responsible for setting the testing schedule. During the practical examination, candidates are under the direction of the Practical Exam Proctor and must follow the Proctor's directions at all times.

The following sections describe the specific tasks that candidates will be performing when taking the Rigger Level I Practical Examination. It is important that candidates understand these instructions. If there is anything that they do not understand, candidates should request clarification from the Proctor.

RIGGER LEVEL I TASKS

The Rigger Level I Practical Exam consists of four tasks:

- *Task 1: Pre-Use Rigging Inspection*
- *Task 2: Rigging Hitches*
- *Task 3: Rigging Connections*
- *Task 4: Basic Knots*

Candidates will be required to complete all phases of the test in sequence. Once they have completed the Practical Exam they must leave the testing area. Only personnel involved in the administration of the test are allowed in the test area.

TIME LIMITS

There is a 60-minute time limit for the Rigger Level I Practical Examination. If a candidate does not complete the exam in 60 minutes, the exam ends and the candidate will receive no credit for any task (or sub-task) not completed.

RIGGER LEVEL II TASKS

The Rigger Level II Practical Exam consists of two tasks:

- *Task 1: Level Lift*
- *Task 2: Rigging Frame Rotation*

TIME LIMITS

The Level Lift task has a time limit of 15 minutes and the Rigging Frame Rotation task has a time limit of 30 minutes.

PRE-TEST BRIEFING

Before the test, candidates will watch a short candidate video showing all the tasks they will be required to perform during the examination.



Practical Examination Outline

RIGGER LEVEL I

TASK 1: PRE-USE RIGGING INSPECTION

- At the Proctor's indication to start, you will inspect all of the rigging slings and hardware located in front of you. Select those items that meet ASME and OSHA *Removal from Service* criteria.
- Place the selected items to one side and say "Done" to indicate that you have finished.

TASK 2: RIGGING HITCHES

- At the Proctor's indication to start, you will be directed to demonstrate six different hitches.
- After completing each hitch, say "Done" when you are ready to have the hitch evaluated.
- You will rig a single straight-line hitch using the 5 ft. web sling and a $\frac{5}{8}$ -inch shackle on the eye bolt located on the round tube.
- All other hitches will be rigged around the round tube.

TASK 3: RIGGING CONNECTIONS

- You will have one minute to review the available rigging equipment for this testing session. The rigging has been inspected and is approved for use.
- Three task cards will be randomly selected—one of each color—for the three rigging tasks. The Proctor will read the cards aloud.
- At the Proctor's indication to start, gather and assemble the rigging materials that are required to complete the assigned task according to the recommendations of the applicable ASME B30 standards.
- You will then rig and suspend the 6 in. × 30 in. square aluminum tube, as described on the task assignment card.
- When you have completed your rigging assignment, announce that you are "Done." The Proctor will evaluate your completed rigging setup.
- You will disassemble the rigging assembly before continuing on to the next rigging assignment.

TASK 4: BASIC KNOTS

- At the Proctor's indication to start, you will tie five different knots using a rope or ropes of different diameters.
- When it is necessary, use the 4 in. round PVC pipe and eye bolt as your anchor point.

- Tie each knot and say "Done" when you are ready to have the knot evaluated.
- Place the tying rope on the table after the last knot has been evaluated.

Candidates must demonstrate the following basic knots:

- Sheet bend
- Clove hitch
- Inside bowline
- Square/reef
- Two half hitches

SCORING CONSIDERATIONS

General:

- Application of Eyebolts—Any time a shouldered eyebolt is applied, an additional washer may be used between the eyebolt shoulder and the top of the load. For securing shouldered eyebolts, double nutting and double washering is acceptable.
- Application of Swivel Hoist Rings—For securing swivel hoist rings, double nutting and double washering under the load is acceptable.
- Overlapping/Crossing Sling on a Double Wrap Choke or Basket—Any application of a sling in a double wrap choke or double wrap basket configuration shall not overlap/cross on the bottom of the load.
- Slings in Hardware—Full or partial overlapping of synthetic round or web slings in a hook, shackle, or other rigging hardware will be recorded as "Performed Correctly."
- Location of Tag—If you wrap the tag against the load while performing a choker or basket hitch, the hitch will be recorded as "Performed Incorrectly."
- Maximum Twist in Sling—Any sling that has more than a half twist (scored at the end of the task) will be marked as scoring deficiency.

Task 2: Rigging Hitches

- If your task involves the use of hardware that requires a torque wrench for final tightening, you are only required to secure the hardware to finger-tight condition for the task assignment.
- Softeners are not required for these tasks.
- The use of a shackle with the double wrap choker is acceptable.

- The straight-line hitch must be demonstrated as a complete system (eye bolt, shackle, and web sling). All elements of the system must comply with applicable standards.

Task 3: Rigging Connections

- Any deviations from the instructions on the task cards chosen will result in scoring deductions.
- If the finished rigging does not match the directions, the plane (same vs. opposing) in which the rigging is used shall be marked as “Incorrect.”

Task 4: Basic Knots

- Inside Bowline—Be sure the free end is situated inside the loop.
- Clove Hitch—The two free ends of the rope must pass each other and must be contained by the loops on the PVC pipe.
- Square Knot—The free ends must be on the same side; you may use either both ropes or a single rope to tie the square knot.
- Two Half-Hitches—The running end must cross over the standing end for the second hitch.
- Sheet Bend—You must use two ropes of different diameters for the sheet bend. The rope with the larger diameter must be used as the “bight” end. The rope ends must be on the same side for the finished bend.



Practical Examination Outline

RIGGER LEVEL II

UNSAFE ACTS

If at any time during the test (Rigger Level II only), you commit an unsafe act, you will be disqualified from continuing with the test. An “unsafe act” is defined as an action by a candidate that is uncontrolled or reckless, and is sufficient to cause safety concern for persons or property damage.

Binding is now defined as: “Occurs when rigging hardware is prohibited from finding its proper alignment with the direction of force that is being applied.”

The Proctor has the authority to stop the test at any time for reasons of safety. Please ask the Proctor if you have any questions. If you are disqualified due to an unsafe act, you will not be permitted to take any additional practical exams that day.

PRE-TEST FAMILIARIZATION

- All rigging slings and hardware are approved for use and do not require pre-use inspection.
- A maximum of three minutes will be permitted to evaluate the rigging gear used for these tasks. If you are ready in less than three minutes, please indicate that you are ready to begin.

TASK 1: LEVEL LIFT

- At Proctor’s indication to start, at which point timing begins, select and then apply slings and/or hardware to attachment points of your choice on the rigging frame in order to hoist the load and execute a level lift.
- You are permitted a maximum of two lifting attempts to achieve a position that is within one degree of true level. A measurement of greater than one degree on your final attempt will result in a performance deduction.
- If you are unsuccessful in your first attempt, you must return to the original starting position before starting a second attempt.
- You must use at least three but no more than four sling legs on the rigging frame.
- You may not use the second chain-fall hoist for this task.
- When you have completed this task say “Done.” Your rigging setup will then be evaluated.
- You will have a maximum time of 15 minutes to complete this task.

- The Proctor will indicate when there are ten, five, and one minute(s) remaining for this task.

TASK 2: RIGGING FRAME ROTATION

- At the Proctor’s indication to start, at which point timing begins, select and then apply slings and/or hardware to attachment points of your choice on the rigging frame. You must lift the frame clear of the ground and rotate the load 90 degrees under control.
- You are permitted a maximum of three attempts to rotate the frame to a position that is within two degrees of true level. A measurement of greater than two degrees on your final attempt will result in a performance deduction.
- A rope tied on the frame indicates which side must be in the final “up” position.
- If you are unsuccessful during any rotation attempt, you must return to the original starting position before attempting the next rotation.
- If the frame touches the ground during the first or second rotation attempt, you must return to the original starting position before attempting the next rotation.
- You must initiate this task with a minimum of three slings but no more than four, and you must have tension on at least two pick points at the end of the task.
- You may use the second chain-fall hoist for this task.
- When you have completed this task say “Done.” Your rigging setup will then be evaluated.
- You will have a maximum time of 30 minutes to complete this task.
- The Proctor will indicate when there are ten, five, and one minute(s) remaining for this task.

SCORING CONSIDERATIONS

General:

- Torquing of hardware or nuts is not required; hand-tighten these items only.
- Softeners shall not be used or provided for these tasks.
- Do not point-load rigging on the frame.
- Do not apply rigging at less than 30 degrees to the horizontal.

- Any misapplication of slings or hardware during these tasks will result in performance deductions.
- You are not permitted to attach rigging at the center of gravity.
- You may not add, adjust, or remove rigging while the load is suspended.
- A lifting attempt is defined as any movement of the frame from hoisting.
- You are not allowed to climb on the rigging frame.
- The Proctor will remove the blocking when the frame is suspended.
- A digital level may be used during these tasks.
- At the conclusion of each task, break down all rigging components and return them to the rigging table.
- Slings in Hardware—Full or partial overlapping of synthetic round or web slings in a hook, shackle, or other rigging hardware will be recorded as “Performed Correctly.”
- Application of Swivel Hoist Rings—For securing swivel hoist rings, double nutting and double washering under the load is acceptable.
- Location of Tag—If the you wrap the tag against the load while performing a choker or basket hitch, the hitch will be recorded as “Performed Incorrectly.”
- Maximum Twist in Sling—Any sling that has more than a half twist scored at the end of the task shall be marked as scoring deficiency.

Both Task 1 and Task 2

- The rigging frame must be on either of its sides in the “L” position before starting.
- “Lifting Attempts,” “Incorrectly Applied Hardware Connections,” and “Two-blocking,” are recorded during the task; all other scoring elements are recorded after you are done with the task.
- “Incorrectly Applied Hardware Connections” indicates that the rigging gear is not applied according to the recommendations of the applicable ASME B30 standards.
- Kissing or softly touching the hook to the chain-fall housing is considered a performance deduction. Hard contact of the hook with the chain-fall housing will be recorded as an Unsafe Act.
- The “Final Level” is the larger measurement of the two planes and is recorded after the you have finished the task and stated “done.”
- The “Load” and “Hook” performance deficiencies are recorded after the task is completed.
- Slings are allowed to touch the frame.
- No rigging can be attached within 12 in. of the CG.
- Application of the sling over the corner of the frame (also known as “point loading”) is considered an unsafe act while the load is freely suspended.
- Movement of the frame due to hoisting is defined as a lifting attempt.

Task 1: Level Lift

- The Level Lift Task is always performed first.
- The Rigging Frame CG will not be directly under the hook at the start of the task.

Task 2: Rigging Frame Rotation

- When using the chain hoist, the load chain must remain straight throughout the attempt. If the hoist load chain is not kept straight, it will be marked as an unsafe act and the exam will be terminated.
- If you touch the frame on the ground (after lifting the frame completely off the ground), you must return to the starting position.
- Touching the ground during the third attempt ends the task.
- You may not rotate the frame on the ground more than 15 degrees before lifting the frame off the ground.



Reference List

The latest versions of the following reference materials are used by CCO's Rigger Exam Management Committee to verify the accuracy of CCO test questions.

CCO RIGGER REFERENCE MANUAL (2019)

nccco.org/rigger-references

This manual was created to assist candidates preparing to take the CCO rigger certification examinations. The information contained in this manual has been compiled from partial sections of ASME B30 standards (with written permission) and the prevailing OSHA regulations for rigging practices. Partial relevant sections from the following selected standards are included:

- ASME B30.5: Mobile and Locomotive Cranes
(*Rigger Level II only*)
- ASME B30.10 : Hooks
- ASME B30.20: Below-the-Hook Lifting Devices
- OSHA 1910.184: Slings
- OSHA 1926.251: Rigging Equipment for Material Handling
- OSHA 1926 Subpart CC: Cranes and Derricks in Construction
 - 1926.1401
 - 1926.1404-1411
 - 1926.1424-1425
 - 1926.1431-1432
 - Appendix A

CCO RIGGER REFERENCE BOOKLET (2014)

nccco.org/rigger-references

This booklet includes rigging hardware, sling, load block, and other capacity information that may be used in CCO rigger certification exams.

ASME STANDARDS

Candidates must be familiar with the entire contents of the following ASME standards:

- ASME B30.9 – Slings (2021)
- ASME B30.26 – Rigging Hardware (2015)
catalog.asme.org

IPT'S CRANE AND RIGGING TRAINING MANUAL

www.iptbooks.com

RIGGING FOR IRONWORKERS REFERENCE MANUAL

This manual can be purchased by calling the Ironworkers National Training Fund at (202) 383-4870.



CCO Policies

RIGGER

Code of Ethics

www.nccco.org/coe

Disciplinary Policy

www.nccco.org/discipline

Substance Abuse Policy

www.nccco.org/abuse

Testing Accommodations

www.nccco.org/accommodations

Test Security

www.nccco.org/security

Information Release Policy

www.nccco.org/inforelease



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