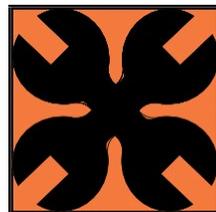




Ironworker Rigger & Signal Person Certification Program Candidate Manual



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Section 1: Introduction

Dear Candidate

It has always been the goal of the International Association of Bridge, Structural, Ornamental and Reinforcing Ironworkers (IABSORIW) and its signatory contractors to maintain the uppermost levels of safety, skill, performance, and competence for their members. These factors are the driving force in the development of training materials and techniques, whether it be in the classroom, shop, or on the job learning.

The Ironworkers have had a Qualified Rigger and Signal Person program for years where training and testing of required knowledge, skills, and record-keeping were key parts of the program.

OSHA has enacted standards that require signal-person qualification by a third-party qualifier and that riggers must be qualified. While a letter of interpretation from OSHA recognizes that labor-management joint apprenticeship training programs that train and assess signal persons and riggers would typically meet the definition for a third-party qualified evaluator many Contractors, States and Municipalities have requested or required a Qualified Riggers and Signal Person Certification.

A true Certification requires testing, record keeping and recertification by a third party. This has caused many of our members to solicit training and testing from other sources costing hundreds of dollars to maintain their certification. All without any input from our Subject Matter Experts, the Ironworker's and their Contractors on the test content. In response, the Ironworkers Rigger and Signalperson Certification Program was developed.

Mission Statement

The Ironworkers Rigger and Signalperson Certification Program provides members of the International Association of Bridge, Structural, Ornamental and Reinforcing Ironworkers a Performance method to obtain a certification that accurately evaluates their rigging and signaling competency. By ensuring that only trained, skilled and competent Ironworkers complete rigging and signaling tasks, workplace risk is reduced, and safety is increased, standing true to our efforts to ensure all workers return home safe at the end of the day. By certifying skilled and qualified workers to our contractors, the Iron Workers' Certification Board is promoting a safe and efficient jobsite for the worker, the public, and the industry.

This Certified Rigger and Signalperson Candidate Manual contains important information on the requirements to obtain Rigger and Signalperson certification through the Ironworkers Rigger and Signalperson Certification Program. Further information can be obtained at the following link.

<http://www.ironworkers.org/>



Program Purpose and Scope

The Ironworkers Rigger and Signalperson Certification Program is an independent, non-profit branch of the Ironworkers International Union. It was developed to provide an effective and consistent accredited third-party certification. A certification that accurately assesses true competence in Rigging and Signaling will promote a jobsite that is safe for the worker, the public and the construction industry. Program oversight is managed by the Ironworkers International Certification Board (IICB), an independent board comprised of Labor/Management/Directors. There is also a member from the public-at-large who is not from the industry. See IICB scope and purpose for more information.

Program Objectives

The main objectives of the Rigger and Signalperson Certification Program are:

- To establish and maintain a program that will provide skilled and safe Ironworker Rigger and Signalpersons to meet the needs of the industry.
- To review the certification program as required, but at a maximum of every 5 years.
- To review concerns that may result in disciplinary actions and act accordingly.
- To review candidate complaints and appeals and act accordingly.
- To recognize the need to revise programs as technology changes.
- To recruit Subject Matter Experts to develop and maintain the exams.
- To ensure exam content is driven by industry needs rather than testing to a reference manual.

The Rigging and Signalperson Certification Process

To obtain the Rigging and Signalperson Certification the candidate must:

- Meet all eligibility requirements
- Successfully complete the written exam
- Successfully complete the Performance exam



Section 2: Program Management & Responsibilities

The IICB will appoint a Certification Director who will implement and manage the daily operation of the Rigging and signalperson certification program. The Certification Director is responsible for maintaining and updating the Program Policies and Procedures and related documents as mandated by the IICB. The Certification Director will administer the program in accordance with the Job Description. The IICB will: hear any complaints, decide on applicable action, and make decisions regarding changes to the program.

The Exam Development Process

The Ironworkers International Certification Board (IICB) identified and selected Subject Matter Experts in Rigging and Signaling for Ironworkers. A Job Analysis Facilitator and Psychometric expert from NOCTI Business Solutions (NBS) trained the SME's in conducting an appropriate Job Task Analysis (JTA).

NBS and the SME's met to identify standards, regulations and the specific knowledge and skills required for safe and efficient rigging and signaling. As the standards, regulations and required skills and knowledge were identified they were separated into various domains. These domains were then validated by a survey of Riggers and Signalpersons within the IABSORIW.

A test blueprint was then developed using the results of the JTA and the validation study.

The SME's were trained in developing multiple choice test items for each of the identified domains (more information on these domains can be found on page 12). This exam was then piloted and weighted by task importance.

SME's used the same identified domains as a guide in the development of the Performance exam.

From these domains it was determined a Rigger and Signal Person should be able to demonstrate knowledge of the following:

- Hand and Voice Signals
- Inspection and or removal criteria for rigging equipment and hardware
- Applying various hitches
- Tying multiple knots
- Safely Performing multiple exercises involving installing rigging and moving a load.
- The Performance exam was piloted and weighted by task.



Technical Review and Training

Technical review will be required for determining the accuracy and relevancy of certification exam questions. Technical review will be completed by Subject Matter Experts appointed by the IICB every five years.

Training for program administrators, certification staff, examiners, Performance examination coordinators, and qualified proctors and observers was developed using the expertise of highly experienced training instructors from the Ironworkers. Additional expertise from outside the industry was also used to devise standards and procedures to ensure a fair, non-biased, and standardized method of certification was incorporated into the program's operations.



Section 3: Eligibility

To ensure that Ironworkers have the specialized knowledge and skill sets required to safely and properly perform the duties of a Rigger and Signal person in today's complex, engineered structures; it is necessary that applicants meet certain prerequisite requirements as detailed below.

Requirements

Requirements for certification include the following:

- A member of the Iron Workers in good standing
- 6000 hours of Industry experience
- Must have completed and passed the IW Rigging and Crane Course or equivalent
- Comply with the IICB's Substance Abuse Policy
- Sign the confidentiality policy and exam rules
- Pass a Written Examination, and
- Pass a Performance Examination.

Requiring membership as an eligibility requirement is necessary because being a member shows that the individual is a skilled trades person who has passed a journeyman examination. Also, The National Training Fund is an ERISA Trust Fund that must be operated under federal law for the exclusive benefit of the participants. The participants are union iron workers. Since there is no cost for the certification, the National Training Fund is prohibited under federal law from using plan assets to benefit people other than the members. Therefore, the eligibility for certification must be restricted to union members.

Maintaining membership and complying with the substance abuse policy shows responsibility. On the job experiences shows knowledge was gained by other sources besides textbooks. Completing the Rigging and Crane Course or equivalent proves exposure to rigging and crane hardware, equipment, load charts, and rigging and signaling techniques.

Eligibility Determination

The IICB Program Director is responsible for determining an applicant's conformity to the program's published eligibility requirements. Appeals from rejected applicants should be directed in writing to the IICB Board of Directors at IICB@IWINTL.org or 1750 New York Ave., NW, Washington DC 20006.



- The Board of Directors will make the final decision on any issue regarding eligibility determination.
- All qualifying candidates to the certification program will be required to initially pass the written examination and then a Performance examination to be certified.
- The Performance examination must be passed within 6 months of the written exam.
- Certification expires after five (5) years from first passing the written exam.
- Qualifying candidates will recertify by written and performance exams, if within the required time limits.

Non-Discrimination Policy

The IICB is committed to providing equal access and opportunity for Rigger and Signalperson certification to all members of the IABSORIW regardless of race, color, national origin, age, religion, sex, disability, sexual orientation or genetic information.

NOTE: For further information see the Policies document on the IICB website.

Special Accommodations

The Ironworkers International Certification Board (“IICB”) supports the Americans with Disabilities Act and the Americans with Disabilities Amendments Act. The IICB will not discriminate against any individual on the basis of a disability and, when needed, will provide reasonable accommodations to candidates who are qualified for the job of a Certified Rigger and Signalperson, with or without reasonable accommodations, so that they may perform the written and practical exam and perform the essential job duties of a Certified Rigger and Signalperson

NOTE: For further information see the Policies document on the IICB website.

Substance Abuse Policy

Candidates applying for either initial certification, or recertification, must comply with the IICB Substance Abuse Policy in Appendix C of this document.



Candidate and Examination Site Security Policy

Candidates who attend an IICB written examination acknowledge that they understand and will comply with the following rules:

1. Candidates will be supplied pencils, scratch paper, calculator and any required materials.
2. Candidates CANNOT bring into the testing area any cell phones or other electronic device, packages, books, unauthorized scratch paper, personal calculators, recorders, cameras, or other material not allowed in the examination area.
3. The examinations are the property of the IICB. No part of the examinations may be photographed, copied, or reproduced in part or in whole by any means, including memorization.
4. None of the examination materials, scratch paper or other documents associated with the examinations can be taken from the immediate examination area.
5. Any irregular activities during the exam will result in termination and invalidation of the exam. Any candidate found in violation may be subject to immediate dismissal from the examination area with their examination(s) subsequently declared invalid. Actions that compromise exam material will make that person responsible for the expense of recreating the exam. Examples of irregular activities include but are not limited to:
 - Giving or receiving unauthorized help
 - Bringing a cell phone, personal notes, or reference materials
 - Copying the exam in any manner

Any candidate with a violation of the above-mentioned policies will be disqualified from this certification. By signing the exam registration list, you are confirming that you have read and understand the above statements.

Disciplinary Policy

Candidates may be barred from further participation in the certification process for violation of any of the testing requirements as listed under Examination Site Security or if there is clear, and documented proof that the candidate has intentionally attempted to undermine the program's operations in other ways not listed herein. A violation of the following rules will result in certification status being revoked:

- Certification expiration date is exceeded without recertification.
- Falsifying information on any document submitted to the IICB.



- Falsifying a certification card or document.
- Misrepresenting or misusing the IICB Certification card or the IICB acronyms and Logos.
- Violation of the IICB Substance Abuse Policy.
- Clear and documented proof of performance demonstrating a critical lack of knowledge, skills, safe operation, and/or abilities necessary to justify continued certification.
- the certificant must return the certification card to IICB if required to do so.

NOTE: For further information see the Policies document on the IICB website.

Confidentiality

The Board of Directors will evaluate and decide all cases involving the potential barring of a candidate from participation in the certification process or the suspension or revocation of certification due to any cause other than the normal expiration of certification(s) and/or the expiration of required document(s). The Board of Directors recognizes the sensitive nature of such proceedings and the need to not only make a fair and impartial decision based on the facts, but to also ensure proper safeguarding of any personal information used in the process.

Notification of the barring from participation in the program, or the suspension and/or revocation of any certification(s), will be made in writing. Appeals of these decisions are permissible. Appeals are described in the IICB's Disciplinary Policies & Procedures which are available from the IICB upon written request.

Appeals must be submitted in writing and received no later than 30 days after the notification of such actions. Further information and submitted appeals must be addressed to: IICB@iwintl.org, or Ironworkers International Certification Board, 1750 New York Avenue, NW, Washington, D.C. 20006.



Section 4: Examinations

Certification applicants successfully meeting all prerequisite requirements will qualify to take the certification exam. This is a two-part exam consisting of a 112-question Computer-Based examination (multiple choice) that requires a passing grade of 80%, and a Performance evaluation that requires a minimum performance standard be achieved.

Computer-Based Exam

The written computer-based examination consists of 112 multiple-choice questions that are scored to assess candidate knowledge. The time limit for this examination is two (2) hours. Subject matter experts (SMEs) identified the following domains for examination question content:

- Codes and regulations
- Cranes
- Rigging slings and hardware
- Voice and Handsignals
- Inspection of Rigging Equipment
- Lifting Procedures
- Hitches (application, selection, tension, weights, stability,)
- Safety in Rigging (Critical lifts, load stability, site conditions,)

NOTE: For Exam Blueprint see Appendix A. For Exam Reference Material see Appendix B.

Performance Evaluation

This minimum performance standard requires the applicant to:

1. Perform hand and voice signals per ASME B30.2- B30.3 and B30.5
2. Inspect rigging and hardware to determine: If it meets **ANSI** safety criteria (if not, why?)
3. Determine slings and hardware to use for picking load in various hitch configurations
4. Demonstrate the ability to tie the following six knots:
 - Bowline
 - Running bowline
 - Square knot
 - Sheet bend
 - Round turn and two half hitches
 - Clove hitch finished with a ½ hitch
5. Demonstrate the ability to rig and raise an offset load in the level position
6. Demonstrate the ability to perform a hook transfer and load inversion

Note: Steps 1-4 are each a pass-fail score and must be successfully completed prior to moving to Step 5. Step 5 must be completed safely with a minimum score of 80%.



The Rigging and Signal-person Certification Process

To obtain the Rigging and Signal-person Certification the candidate must;

- First successfully complete the written, computer-based exam
- Then successfully complete the Performance evaluation within 6 months of successfully completing the written, computer-based exam.
- A failure to take or pass the Performance evaluation within 6 months of the written, computer-based exam will result in the written, computer-based exam expiring.

Proctors, Evaluators and Observers

All computer based and performance exams will be administered by trained Proctors and Evaluators. A trained Observer must be present during all exams. Proctors, Evaluators and Observers must have previously passed the rigging and Signalperson computer based and performance exams and maintain certification.

Certification Expiration

Certification is valid for a period of five (5) years based on the date of the successfully completed written, computer-based exam. To maintain certification, recertification must take place prior to expiration of the initial certification. The new five-year certification period will begin from the date of expiration of the candidate's initial certification. As most of the general practices in rigging and signaling do not change significantly, the need to re-certify every five years is adequate to ensure continued competence.

Recertification

The recertification process is designed to ensure the continued competence of the Rigger and Signal Person by demonstrating specified levels of knowledge, skills, or ability throughout an individual's professional career. Certified Rigger and Signal Persons have demonstrated a certain level of knowledge and skill at the time of the exams. In no way does the certificant have knowledge of every rigging or signaling scenario and competence may diminish over time due to job change or industry advancements. With this in mind the certification will expire in five (5) years. During this five (5) year period it is anticipated the exam will be reviewed and if required, updated to accommodate industry advancements. Recertification will demonstrate the knowledge and skills required of an initial certificant. The five (5) year renewal consists of taking a Computer-Based examination (multiple choice) with the same objectives or blueprint as the initial exam and requires a passing score of 80% combined with a performance exam covering crane hand and voice signals, inspection criteria, rigging and hitch performance, and knots.



Requirements for recertification include the following 3 steps:

- Be a member in good standing with the Iron Workers.
- Comply with the IICB substance abuse policy.
- Pass the recertification written examination.
- Pass the recertification performance exam

Ironworkers should complete a recertification examination no later than six (6) months prior to their certification expiration date. This will stop last minute delays which could prevent the completion of the examination process prior to the expiration date of the current certifications. Recertification applications can be obtained from the IICB link on the Ironworkers website <http://ironworkers.org>.

You may re-certify anytime within twelve (12) months prior to the expiration date without affecting the current expiration date.

NOTE: Ironworkers that let the Rigger and Signal Person certification lapse must pass both the initial written exam and then the Performance exam.

NOTE: There is NO grace period.



Testing

Riggers applying for re-certification must pass the required written test with a score of 80% or better and pass the performance exam. Riggers that pass this test will have their certification renewed for 5 years from the date their current certification expires.

Certification Documents

As a candidate successfully completes the certification process (or recertification process) they will be issued a photo identification card that specifies Certified Rigger and Signal Person. The certification and expiration date will be listed on the card. Lost or stolen cards should be reported to the IICB for a replacement. Records of certification will be maintained by the IICB and will be available for viewing with a QR reader from your membership card.

Section 5: Application Process

Applicants for the IICB Rigger and Signal Person certification written examinations can pick them up from their local union training center.

The completed application and the required documents are to be submitted to your participating Local Union Training center. The participating Local Union Training center will send the applications and required documents to the IICB as they schedule the exam. All documents must be received 30 days prior to the exam.

Application for Rigger and Signal Person Certification

All required information and documentation must be included when applying to the IICB. Incomplete applications will be returned to the participating Local Union Training center in their entirety along with detailed instructions as to the reason(s) for the rejection and recommended corrective actions for re-submission.

Recertification Application for Rigger and Signal Person

Certified Riggers and Signal Persons requesting recertification must use the "Recertification Application" form when applying.



Recertification applications can be obtained from the participating Local Union Training centers.

NOTE: Candidates for recertification must successfully complete all required testing criteria prior to their certification expiration date to obtain recertification.

NOTE: There is **NO** grace period.

The completed application and copies of all required documents should be emailed to the IICB main office, at the address listed on the application.

The following documents must be received, reviewed, and accepted by the IICB Certification Office no less than 30 days prior to a candidate being scheduled or attending any examination:

- Completed and signed application agreeing to the exam rules and substance abuse policy.
- A copy of an official photo identification (Driver's License or other government issued photo identification).
- A copy of a current dues receipt showing dues paid through the current month.
- Proof of completion of the Ironworker Cranes and Rigging course or equivalent
- Proof of 6000 industry related work hours.

Applicants meeting all IICB eligibility criteria, and who submit completed applications, will be notified by email that they are accepted candidates for certification. Candidates will be instructed to contact the participating Local Training Center for scheduled written examination dates and locations. It is the responsibility of the candidate to contact the testing facility (Local Union Training Center) and receive formal written approval prior to attending any scheduled Computer based examination.

NOTE: ALL candidates must contact the testing facility (Local Union Training Center) to schedule or reschedule computer-based written examination(s).

Application Fees

There are no application fees for candidates that meet the program's eligibility requirement

Examination Locations

The IICB administers written examinations at participating Training centers throughout the United States and Canada. A candidate may attend a scheduled examination in any area. All examinations will be administered by Qualified Proctors in a standardized format to ensure all candidates are provided equivalent testing environments.



Examination Site Information

- Candidates must be present at the examination site 30 minutes prior to the scheduled time.
- Each candidate must bring government issued photo identification and a current Ironworkers due's receipt to the examination site showing dues paid through the current month.
- Candidates will be required to sign the Written Examination Registration List upon entry to the testing area. Pencils, calculators, and scratch paper will be available at the examination site.

Examination Site Security Policy

The candidates who attend an IICB written examination acknowledge that they understand and will comply with the following rules:

- The candidate must arrive at least 30 minutes prior to the scheduled exam.
- On arrival at the test site, candidates must provide a government issued photo ID along with a valid membership card (or a current due's receipt) showing their dues paid through the current month.
- Each candidate will be provided pencils, scratch paper, a calculator, and any required materials.
- The candidate CANNOT bring into the testing area any cell phones or other electronic device, packages, books or unauthorized scratch paper. No personal calculators, recorders, cameras, or other material will be allowed in the examination area.
- The examinations are the property of the IICB. No part of the examinations may be photographed, copied, or reproduced in part or in whole by any means, including memorization.
- None of the examination materials, scratch paper or other documents associated with the examinations can be taken from the immediate examination area.
- Any irregular activities during the exam will result in termination and invalidation of the exam and will result in the candidate's immediate dismissal from the examination area with their examination(s) subsequently declared invalid. Any actions that compromise exam materials may make that person responsible for the expense of recreating the exam.
- Examples of irregular activities include but are not limited to:
 - Giving or getting unauthorized help
 - Bringing a cell phone, personal notes, or reference materials
 - Copying the exam in any manner, etc.



- Any candidates found to be in violation of the above-mentioned policies may be disqualified from this certification indefinitely.
- By signing the exam registration list, you are confirming that you have read and understand the above statements.

Scoring Process

For the computer-based testing (CBT), follow the Qualified Proctor's pre-test instructions.

Each candidate must achieve a score of 80% or above to pass the examination. All examination results will have the form of a scaled score on a scale of 0 to 100 percent.

All computer-based testing (CBT) written examinations are scored at the end of the examination. The IICB Certification Director will also be notified of the exam results.

All test results are confidential. No score information for any examination will be given over the telephone. The Apprentice Tracking System (ATS) will show only successful exams. No score, no grade. There will be no exceptions.

Re-scoring Requests

A candidate who did not pass one or more of the examinations may request a re-scoring of the examination(s). This request must be made in writing to the IICB Certification Director and received within 30 days of the examination date. All written requests must contain the candidate's full name, mailing address, Ironworkers Member number, contact phone number, and signature.

The candidate will be immediately notified, by Email, of the results of the re-scoring. If a re-scoring results in a passing score, the candidate will be immediately reinstated in the certification process.

Feedback

The IICB welcomes candidate feedback. Candidate feedback will help improve the exam and methods in giving it. Each candidate can give feedback at the end of the computer-based exam and will receive a feedback form at the test site during the Performance exam. Putting your names on the form is optional



Performance Examination Process

All candidates who have passed the written examination may schedule to participate in the next available Performance examination at their participating Local Union Training center. Many times, the Performance exam is scheduled immediately after the written exam. But it is to the benefit of the candidate to schedule for the Performance exam and receive formal confirmation. As each exam can take up to two hours, last-minute walk-ins will not be accommodated.

Candidates for initial certification must successfully complete the Performance Examination within six months of the Written Examination date. If not, the candidate will be required to retake the Written Examination.

NOTE: There is no grace period.

Test/Retest Policy

Candidates who do not pass a written or Performance examination may take it a second time but not on the same calendar day. Contact the local training center to schedule the retest.

Candidates that do not pass a written or Performance examination the second time must show documented completion of at least a 12-hour rigging course to take the exam a third time.

Candidates that do not pass the exam the third time and wish to take the exam again, must wait a minimum of 5 years from the date of the first exam or 2 years from the third exam whichever is longest. Documented completion of another (not the same) 12-hour rigging course will have to be supplied to be eligible. Candidates needing to re-take an examination(s) must call the Local training center prior to the scheduled examination date. "No exceptions".

Note: After the second attempt of the recertification exam the candidate must complete the initial certification.

The Test and retest policy states that if the exam is failed it can be taken a second time but not on the same day. this allows for setting the person up in the LMS and allows the candidate time to regroup. After the second failure a 12 hour course is mandated to ensure preparation. The limitation for 3 tries in five years is to prevent learning the test.

Exam Integrity

Note: An exam cannot be taken more than 3 times in 5 years. 12 hours of documented training required after 2nd attempt. Another 12 hours of training after 3rd attempt and 2-5 year waiting time.

Examination Locations

The IICB administers Performance examinations throughout the geographical areas covered by the IW. Eligible candidates may schedule an examination at their participating Local Union training site.



The examinations will be administered by an IICB Examiner in a standardized format to ensure all candidates are provided equivalent impartial testing environments, e.g., rigging, hardware, test layout, instructions, etc.

Performance Examination Site Information

- Candidates must be present at the examination site 30 minutes before the scheduled examination starting time.

NOTE: Performance exams are typically scheduled on Saturdays to accommodate work schedules.

- Candidates must wear work clothes and boots in addition to appropriate personal protective equipment (PPE).
- Each candidate must bring a government issued photo identification to the test site along with a valid membership Card (or a current dues receipt) showing their dues paid through the current month.
- Candidates will be required to sign the Performance Examination Registration List upon entry to the testing area.
- Candidate will be required to leave the test facility immediately after completing the Performance exam.

Examination Fees

There are no examination fees for candidates that meet the program's eligibility requirements.

Testing Procedure

Only qualified exam administrators may administer the exam and performance evaluation to applicants meeting all pre-requisite requirements. The exam content shall not be viewed by anyone other than the applicant while taking the exam. During the exam, the exam administrator shall not answer any questions related to exam content, answering procedural questions is permitted.

Students shall be seated in a manner to prevent the sharing of information. No reference materials are allowed. Blank scrap paper may be handed out if it is collected and destroyed after the exam. A basic calculator may be used during the exam, but other electronic devices are not allowed.



Grading and Certification

The Certification Director will review all application information verifying that all pre-requisite requirements are met. Acceptable applicants will be allowed to sit for the computer-based exam. Certification cards will be issued to those who qualify. Exam scores whether pass or fail are shared with the Candidate only. All qualified candidates passing both the written and Performance examinations will be recorded as a Certified Rigger and Signal Person in the Ironworkers Apprentice Tracking System (IWATS), an electronic database accessible to all local union training centers. The ATS can be used to verify certification status of an individual by book number if the card is not available. QR code reader can also be used to verify certification

Section 6: Retention of Information

The IICB will retain candidate information as required by law but at a minimum of five years. Information to be retained (either electronically and/or hardcopy) will include as a minimum:

- Candidate application(s) and agreements.
- A copy of the letter of certification sent to Certified Rigger and Signal Persons.
- All computer-based exam scores.
- All Performance examination score sheets.
- A copy of the required documents submitted at the time of application.
- Records will be scanned to a permanent electronic file then shredded.

Exam Development Records

- Exam Development records such as examination data and reports required to provide evidence of validity and reliability of the examination shall be maintained for a minimum of 10 years but should be kept indefinitely. All hard copy records will be scanned to a permanent electronic file and shredded.

NOTE: Candidates/Certified Riggers & Signalpersons should report any changes in contact information, (e.g., address, telephone number, e-mail, etc.) to the IICB certification office as soon as possible. The IICB certification office can be reached at the address, telephone number, and email address listed below.

Release of Information

The IICB will release information regarding certification status to any employer, government agency, person, or entity that submits a request. Released information will be limited to the individual's name and current certification status.

No information concerning the written or Performance examination scores, results of substance abuse tests, and/or any other personal data will be released without prior written authorization from the individual or the individual's legal representative.



Questions

Any questions concerning the program including eligibility determination, the application process, assessment instrument results, and/or certification status should be directed to the IICB Certification Director.

Ironworker's Certification Board

Certification Director

1750 New York Ave., NW

Washington DC 20006

IICB@iwintl.org



Appendix A: Exam Blueprint

Specific Competencies and Skills Tested in this Assessment:

Codes and Regulations

- Demonstrate knowledge of and apply ANSI standards (ANSI A10-42)
- Demonstrate knowledge of OSHA 1910.184: Slings and 1926.251: Rigging Equipment for Material Handling
- Demonstrate knowledge of OSHA 1926.305: Jacks--Lever and ratchet
- Demonstrate knowledge of OSHA 1926.750-761: Subpart R
- Demonstrate knowledge of OSHA 1926.1419: Signal requirements, OSHA 1926.1428: Signal person qualification
- (CC) and OSHA 1926.201: Crane and Hoist signals
- Demonstrate knowledge of OSHA 1926.1430: Training
- Demonstrate knowledge of OSHA 1926.1431: Hoisting personnel
- Demonstrate knowledge of OSHA 1926.1407-1411: Power line safety
- Demonstrate knowledge of and apply ASME non-inspection standards

Cranes

- Demonstrate knowledge of cranes set up relative to rigging per OSHA 1926.1400
- Interpret load charts for various types of cranes
- Demonstrate knowledge of parts of a crane

Rigging Components

- Select appropriate wire rope for application and capacity
- Select appropriate synthetic sling for application and capacity
- Select appropriate chains for application and capacity
- Select rigging assembly for sling
- Select electric hoists based on application
- Select manual (chain falls) for application
- Demonstrate knowledge of dollies/skates/rollers
- Select compression hardware for application
- Select below-the-hook lifting devices
- Apply structural (lifting beams) to a load
- Configure multiple rigging lift assembly



Voice and Hand Signals

- Perform standard hand signals for controlling crane operations (ASME B30.5, Section 5.3.4)
- Perform standard voice signals (ASME B30.5, Section 5-3.5)
- Perform audible travel and emergency signals for mobile and locomotive cranes (ASME B30.5, Section 5.3.7)
- Perform standard hand signals for tower crane (ASME B30.3, section 3.3.3.1)

Inspection Rigging Equipment for Material Handling

- Inspect slings including removal from service per OSHA 1926.251 and ASME B30.9
- Inspect below-the-hook lifting devices including removal from service per OSHA 1926.251 and ASME B30.20
- Inspect rigging equipment for material handling (shackles and hooks) including removal from service per OSHA 1926.251 and ASME B30.26 and B30.10
- Demonstrate knowledge of frequency of inspection

Lifting Procedures

- Determine load weight
- Select hardware for load weight and sling configuration
- Account for sling tension
- Convert between imperial and metric units
- Determine center of gravity
- Participate on critical lift per OSHA 1926.1432 and ANSI/ASME B-30.5
- Comply with best practices regarding lifting procedures

Hitches

- Identify capacity and application of hitches (ASME 30.9)
- Select hitch for application per ASME B30.9

Safety

- General safety and best practices relative to slings
- General safety considerations relative to rigging
- Identify electric power line hazards, applicable regulations and safety practices (OSHA 1926.1407-1411)
- Comply with OSHA 1926.750 (Subpart R)



Appendix B: Reference Materials

Reference Materials for the IW Rigging and Signalperson Certification Exam

- Rigging for IronWorkers
- Cranes for Iron Workers
- *IPT's Crane and Rigging Training Manual
- *Bob's Rigging and Crane Handbook
- *The Complete Rigger's reference handbook
- *California District Councils Qualified Rigger Workbook
- OSHA and ASME standards referenced in the exam blueprint. (Appendix A.)

***NOTE:** The Ironworker Manuals are not the only reference materials that can be used to prepare for the exam. The exam blueprint in Appendix A gives the topics to study.

Appendix C: IICB Substance Abuse Policy

It is the policy of the Iron Workers International Certification board 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, controlled substances, prescribed or over the counter substances or any other substance that impairs or may reasonably be expected to impair the ability to work safely.

A refusal to submit to a required substance abuse test shall be treated as a positive test. It is a requirement those certified by the IICB agree to comply with this substance abuse policy.

