Examination User Guide

Certified Radiographic Interpreter (CRI) Exam

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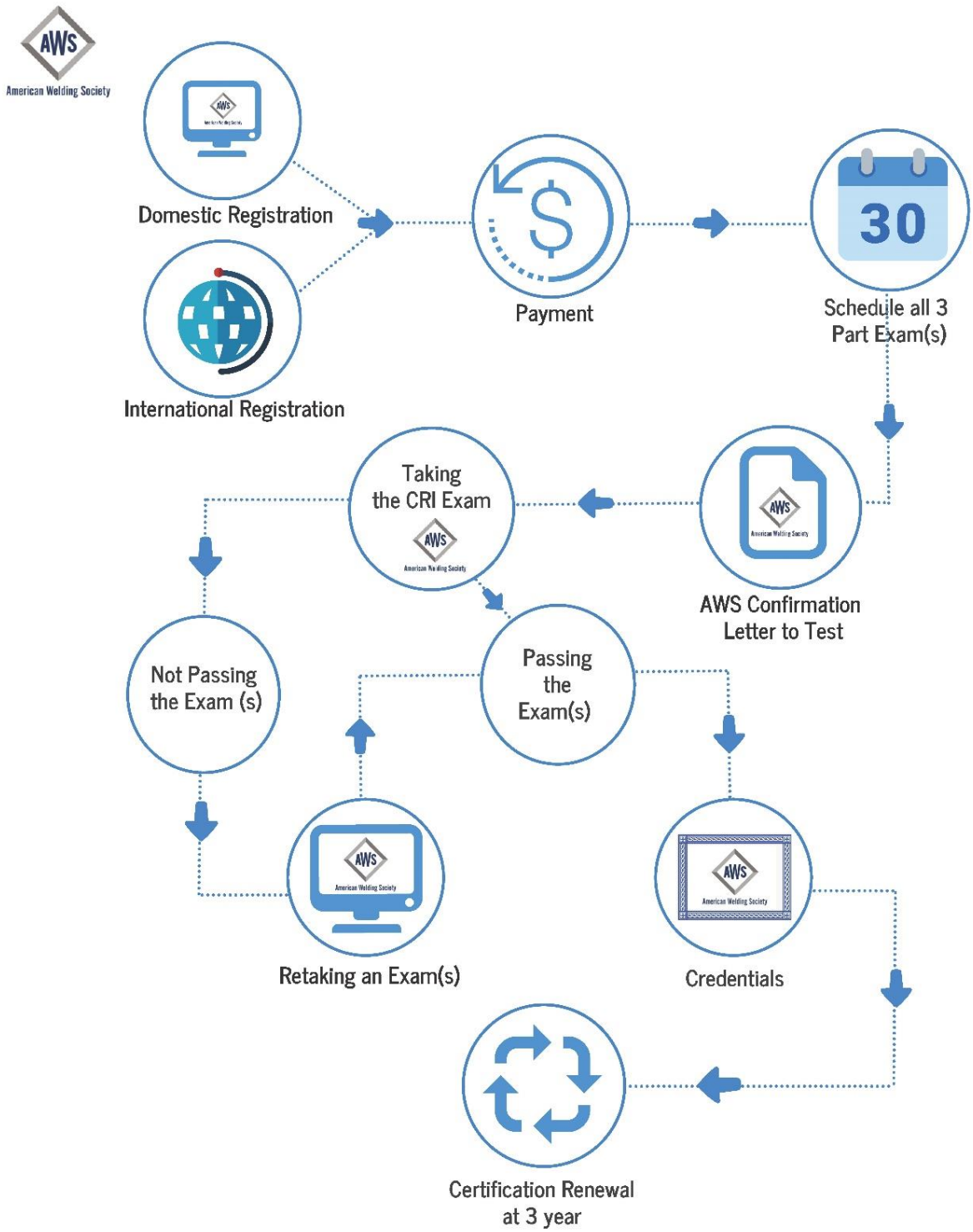
CONTACT INFORMATION

American Welding Society® **www.AWS.org** Office Hours: Monday – Friday 8:00 am - 7:00 pm (Eastern Time) Phone: 1-800-443-9353, Option 3 Email: customercare@aws.org	• General information on the certification process • Qualifications for certification • Registration/application process • Application status • Scheduling/Rescheduling your paper-based exam appointment or test location • Exam scoring • Exam accommodations • FAQs
American Welding Society® INTERNATIONAL AGENT	• Agent Schedule and Contact Information, please click HERE • Scheduling/Rescheduling your exam appointment or test location. • General information on the certification process • Qualifications for certification • Registration/application process • Application status • Pricing for examination and additional services

CRI EXAM PROCESS



OVERVIEW

The purpose of radiographic interpretation is to properly assess indications produced on radiographic media during the process of evaluating weldments or adjacent base metal. The radiographic interpreter must be thoroughly familiar with all aspects of the process of radiography as well as the welding and casting process. For radiographic interpreters to be effective, they must not only be technically competent, but also consistent and ethically principled in their dealing with clients and employers.

The AWS program for the certification of radiographic interpreters (CRI) has been developed to define the minimum standards for a radiographic interpreter and to provide a means of recognition for those who demonstrate through examination that they have a level of skill, knowledge, and experience in the field of radiographic interpretation of welds. For more information, please review the following governing standards:

- AWS B5.15:2010 - Specification for the Qualification of Radiographic Interpreters
- AWS QC15:2008-AMD1 - Specification for the Certification of Radiographic Interpreters

This Examination Guide contains important information on the rules, policies, procedures, and exam content for candidates seeking to take the CRI exams. This Examination Guide is subject to change.

THE CERTIFIED RADIOGRAPHIC INTERPRETER CREDENTIAL

A person with the demonstrated education, experience, and knowledge as defined by the B5:15-2010 Standard and who successfully passes the required examinations is considered certified as an AWS CRI.

THE CERTIFIED RADIOGRAPHIC INTERPRETER EXAM PARTS

According to B5.15:2010, Clause 10, candidates seeking to become a CRI must pass three exams to obtain their credential. Test Specifications are a breakdown of examination content areas along with the proportion of the examination devoted to each content area.

Part A General Knowledge Examination

Test Specifications

As per B5.15:2010, Clause 10.2.1, the CRI Part A exam is composed of the following domains and weights (percent of questions on the examination).

Content Domain	Minimum Percent of Questions on Exam
Nature and Properties of X and Gamma Radiation	5%
Photographic Aspects	15%
Fundamental Aspects of Radiographic Quality and Geometry of Image Formation	40%
Radiation Safety Principles	2%
X-ray and Gamma Ray Equipment	1%
Exposure Calculations	1%
Application to Welds	5%
Viewing Radiographs	1%
Welding Technology	25%
Total	95%

Training Reference Standards

Candidates taking the AWS Radiographic Interpreter training course and the certification examination will be loaned the AWS Book of Reference Standards in Appendix D for their individual use during the training and the testing.

Examination References

The examination questions **may be** taken from and answerable from the references found in Appendix E in this document.

General Exam Information

- Exam Type: Closed book examination
- Exam Delivery: Written examination, at AWS test sites
- Exam Content Time: Part A and Part C are administered together in a **single** (3) hour. (180 minutes) session
- Exam Question Type: Multiple-choice questions
- Number of Exam Questions: 70

The Passing Score

Successful candidates must correctly answer 70% of the questions to pass the CRI Part A examination. There is a requirement of a passing composite score of a minimum of 80% based on simple averaging of the three examinations.

Part C Code Knowledge Examination

Test Specifications

As per B5.15:2010, Clause 10.2.1, the CRI Part C exam is composed of the following domains and weights (percent of questions on the examination).

Content Domain	Minimum Percent of Questions on Exam
Nature and Properties of X and Gamma Radiation	0%
Photographic Aspects	0%
Fundamental Aspects of Radiographic Quality and Geometry of Image Formation	35%
Radiation Safety Principles	0%
X-ray and Gamma Ray Equipment	3%
Exposure Calculations	1%
Application to Welds	25%
Viewing Radiographs	30%
Welding Technology	1%
Total	95%

Training Reference Standards

Candidates taking the AWS Radiographic Interpreter training course and the certification examination will be loaned the AWS Book of Reference Standards in Appendix D for their individual use during the training and testing. The reference books contain the standards or (excerpts of standards) found in Appendix D of this document. The AWS Book of Reference Standards will be returned to AWS upon the completion of their testing.

Examination References

The examination questions are directly answerable from the references found in Appendix E in this document. Questions on the exam will be grouped by the reference standard. For example, all the D1.1 questions will be together and all the ASME Section V questions will be together.

General Exam Information

- Exam Type: Open-book examination
- Exam Delivery: Written Examination, at AWS test sites
- Exam Content Time: Part A and Part C shall be administered together in a **single** (3) hour (180 minutes) session
- Exam Question Type: Multiple-choice questions
- Number of Exam Questions: 78

The Passing Score

Successful candidates must correctly answer 70% of the questions to pass the CRI Part C examination. There is a requirement of a passing composite score of a minimum of 80% based on simple averaging of the three examinations.

Important!

Part A and Part C of the examination shall be administered together in a single 3-hour session. Both Part A and Part C shall be given to the CRI candidate at the same time for this session. The division of time between Part A and Part C and the sequence of completion is at the discretion of the CRI candidate.

Part B Practical Film Interpretation Examination

Test Specifications

As per B5.15:2010, Clause 10.2.1, the CRI Part B exam is composed of the following domains and weights (percent of questions on the examination).

Content Domain	Percent of Questions on Exam
Nature and Properties of X and Gamma Radiation	0%
Photographic Aspects	0%
Fundamental Aspects of Radiographic Quality and Geometry of Image Formation	40%
Radiation Safety Principles	0%
X-ray and Gamma Ray Equipment	0%
Exposure Calculations	0%
Application to Welds	40%
Viewing Radiographs	15%
Welding Technology	0%
Total	95%

Training Reference Standards

Candidates taking the AWS Radiographic Interpreter training course and the certification examination will be loaned the AWS Book of Reference Standards for their individual use during the training and testing. The reference books contain the standards, or (excerpts of standards) found in Appendix D of this document. The AWS Book of Reference Standards will be returned to AWS upon the completion of their testing.

Examination References

The examination questions **may be** taken from and answerable from the references found in Appendix E in this document.

General Exam Information

- Exam Type: Open book examination
- Exam Delivery: Written Examination, at AWS test sites
- Exam Content Time: Three (3) hours (180 minutes) for exam question answering
- Exam Question Type: Multiple-choice questions
- Number of Exam Questions: 40

The Passing Score

Successful candidates must correctly answer 70% of the questions to pass the CRI Part B examination. There is a requirement of a passing composite score of a minimum of 80% based on simple averaging of the three examinations.

ELIGIBILITY

Candidates must provide complete documentation at time of application confirming that they meet all eligibility requirements, including proof of visual acuity and minimum experience and/or education completion. Based on application types (e.g., initial, retest, or renewal/recertification), specific information may also be required.

For existing CWIs and SCWIs, successful completion of the CRI examination satisfies the examination requirements for recertification under Clauses 16.2.1 or 16.3.1, as applicable, of AWS QC1:2016-AMD1- *Specification for AWS Certification of Welding Inspectors,* provided that the exam is taken during the immediate 9-year period.

Education and Training

Important!

Applicants must have acquired a minimum of 40 hours of organized training in radiographic interpretation/examination.

The training should include the topics specified in the AWS B5.15 - *Specification for the Qualification of Radiographic Interpreters*, Clause 9 - Body of Knowledge.

Candidates are encouraged to explore all resources/training available through the AWS Education Department or international Agents. For more information related to training/registration, visit:

AWS Seminars
Certified Radiographic Interpreter Seminar

APPLYING TO TAKE THE CERTIFIED RADIOGRAPHIC INTERPRETER EXAMS

Applying for the CRI exams is different for domestic (US and Canada) and international (outside of the US and Canada) candidates. Please use the requirements below depending on your location.

Domestic (US and Canada)

Application Instructions

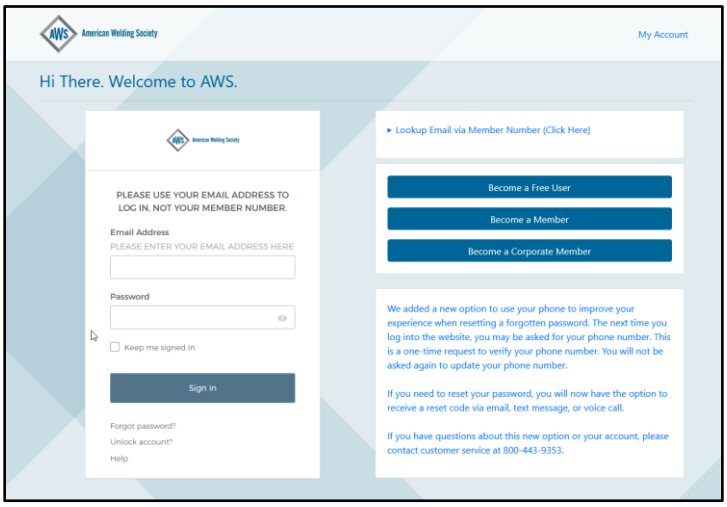
Applicants located in the United States or Canada apply directly via the Certification Application Portal.

- The Certification Application Portal will guide applicants step-by-step to complete the exam application.
- New users will be asked to create a username and password to log into the AWS Certification Application Portal.

- It is not necessary to complete the application in one sitting. You will be able to save your work by clicking on the "Save" button at the top or bottom of each screen. You can navigate among pages by using the "Save & Continue" and the "Save & Go Back" buttons. You can also logout at any time by clicking the "Save & Logout" button. The "Save" button simply allows you to save your work but continue working on the current page.

- For each individual file upload, the maximum file size is 5 MB. A complete list of required application documents can be found HERE.
- The first and last names on the application must match what is listed on the government-issued ID presented as proof of identity at all exam sites.

Candidates can update and change their profile and contact information by accessing the Member profile via the AWS Member Portal.



Candidates can view the online status of an application, order, or membership via the AWS Member Portal.

A Confirmation Letter will be emailed from the AWS approximately 4-6 weeks after the application submission, The Confirmation Letter contains important examination details that must be reviewed by candidates before taking the exam. (Appendix B shows a sample Confirmation Letter.)

AWS recommends that candidates **DO NOT** make travel arrangements until after a Confirmation Letter is received.

Exam Fees

Exam fees are due at time of registration and are paid directly to AWS. AWS accepts payments via MasterCard, VISA, and American Express. The CRI exam price list is available online. Domestic applicants choosing to send their application to AWS headquarters via email (pdf) or mail carrier (paper) will incur an additional $125.00 processing fee.

American Disability Act (ADA) Accommodations

Candidates living within the US who have a documented disability under the ADA that prevents them from taking an exam under standard conditions may request special accommodations when they register through the Certification Application Portal. For the special accommodations AWS provides, please click HERE.

International (outside of the US and Canada)

Currently, international applicants must apply for the CRI exams through an AWS Agent. For a list of available international Agents and test locations, please click HERE.

Application Instructions

- Applicants must review the international exam schedule on the AWS webpage to find a suitable date and location.
- Applicants must download and print the CRI Application form, complete it thoroughly, and submit it along with all required supporting documents to the designated Agent hosting the exam site. It is important to ensure all information is accurate and complete to avoid delays in processing. Additionally, applicants should verify the submission deadlines and confirm the required documents with the exam site agent in advance.
- Approximately 2-6 weeks after the application is submitted, a Confirmation Letter will be sent to an International Agent and candidate containing examination details. (See Appendix B for a sample confirmation letter.)

Exam Fees

Exam fees are due at time of registration and paid to the International Agent representing AWS. Agents can provide pricing information regarding international CRI exams.

SCHEDULING THE CRI EXAMS

The CRI exam is scheduled via the Initial application. The event date and location are represented by a site code on the AWS website (example of an AWS site code: TX44321).

Rescheduling / Cancellations / Refunds

Circumstances may arise that will require candidates to reschedule or cancel the exam. Appointments must be rescheduled or canceled well before the exam date, or exam fees are forfeited. Details HERE.

- Candidates living in the US or Canada may cancel or reschedule their CRI exam by downloading and completing a Change of Site/Cancellation form and emailing it to Certification@aws.org or visiting the AWS Certification Application Portal.

- International candidates may contact their selected Agent to cancel or reschedule their CRI exam and to determine what that Agent's refund policy/procedures are.

TAKING THE CRI EXAMS

Test Sites and Check-In

AWS-approved test sites provide a standardized and secure testing environment for all examinees. Exam candidates are required to comply with all test supervisor instructions. This will ensure that the testing environment is fair and respectful for everyone. Because AWS exams start on time, candidates are encouraged to arrive at the test site 30-45 minutes before the scheduled exam start time. (The exam location, group number, date, and time can be found on the confirmation letter.)

First Test Period	Check In- Start and End Times	Approx. Exam Start Time
Group 1 - Part B ➢ *Practical*	07:00 AM – 07:25 AM	07:30 AM
Groups 2&3 -Parts A&C ➢ *General* ➢ *Code Specific*	07:00 AM – 07:25 AM	07:30 AM
Second Test Period	**Check In- Start and End Times**	**Approx. Exam Start Time**
Group 1 – Parts A&C ➢ *General* ➢ *Code Specific*	11:00 AM – 11:30 AM	12:00 PM
Groups 2&3 -Part B ➢ *Practical*	11:00 AM – 11:30 AM	12:00 PM

Required Documentation at Check-In

All candidates must provide the following items at check-in before all exams:

A Government-Issued Identification:

- Examples: Driver License, Passport, or State ID.
- ID must be current and include the candidate's full name, date of birth, a recognizable photo, signature, and expiration date. If this ID does not include a signature, then a secondary ID (e.g., credit card, student ID or military ID) with a signature is required in addition to the primary ID.

Printed exam AWS confirmation letter.

Important!

Doors will close promptly at the end of the check-in period. Candidates arriving after their assigned check-in period WILL NOT be admitted and WILL NOT be permitted to take their exam during any other group session.

Candidates are invited to share feedback about their testing experience with AWS.

Candidate Attestation Agreement

Prior to beginning to work on the exam, candidates will be required to review and sign the Candidate Attestation Agreement. By signing this Agreement, candidates agree to maintain the confidentiality and integrity of the examination and the certification program. Candidates who do not accept the terms or sign the Agreement will forfeit both their opportunity to take the exam and all exam fees.

The Candidate Attestation Agreement can be found HERE or in Appendix A. Translations of the Candidate Attestation Agreement can be found here in two different languages: English and Spanish (**Español**).

Part B Examination Materials

The equipment (light boxes, etc.) used to view radiographic specimens shall be checked prior to the examination to ensure proper operation. Equipment shall be of a type and model which matches (as closely as possible) the quality and luminescence needed to view and interpret production radiographs. Equipment used to view radiographic specimens shall be checked prior to use to ensure proper operation. Other devices used to verify film density, etc., shall be calibrated and in good operating condition.

Items Allowed in the Test Room

Government-Issued ID
Number 2 Pencils
Acceptable Calculator

- Acceptable: Four-function, Construction, Non-Programmable Scientific
- Unacceptable: Noisy, Programmable, Alphabetical, Memory
  Note: All Calculators will be inspected during Check-In per compliance.

Seminar candidates will be allowed to bring their “reference code and standards” in the test room.

Items NOT Allowed in the Test Room

Scratch pads, notebooks, and post-it notes.
Any devices that make noise
Recording devices
Cell phones
Non-medical Wearable Electronics
Large/bulky jackets or sweatshirts with hoods
Hats or head coverings, and or sunglasses (unless they qualify as religious apparel)
Food, beverages, gum

> *Note about backpacks, luggage, and other personal belongings:* Tests takers are not permitted to bring personal items into the testing room. There are no exceptions. Test takers should arrange to store personal items safely in advance. AWS is not responsible for any loss or damage to personal items left outside the testing room.

AWS Policy on Unscheduled Breaks

After the three-hour exam begins, there will be no scheduled breaks. Should a bathroom break become necessary during the exam, only one person at a time will be permitted to leave the exam room. No testing materials, calculators, or writing implements may be removed from the room at this time. No extra time will be allotted to candidates taking an unscheduled break.

AFTER THE EXAM

Exam Result Reporting

Passing Score

The **minimum** passing score for **each CRI exam** part is 70%. There is a requirement of a passing composite score of a **minimum** of 80% based on simple averaging of the three examinations.

Your Exam Score

The percentage for each CRI exam part is calculated by dividing the total number of correct answers by the total number of questions. **The scores are reported to the nearest lower whole percent number.**

AWS Official Score Letter

Candidates will receive their AWS official score letter via email approximately two (2) to four (4) weeks after the final exam part has been completed at the Prometric Testing Center. The AWS Official Score Letter contains scores for all three CRI Exam parts. A sample version of the AWS Official Score Letter is provided in Appendix C of this Guide.

Meeting the B5.15 Requirements for CRI

Candidates who achieve an overall composite score (simple average of three parts of the examination) of 80% and who meet the additional requirements specified in the AWS B5.15 - *Specification for the Qualification of Radiographic Interpreters* may become Certified Radiographic Inspectors.

Receiving the CRI Credential

Four to six weeks after CRI Exam scores are confirmed, AWS shall issue all new Certified Welding Inspectors a serialized (unique) CRI number, Official Certificate, Wallet Card and Stamp.

Certifications can be viewed through the AWS Member Portal and the AWS QuickCheck webpage. To replace a Certificate, Wallet Card, and/or Stamp complete and submit the order form located HERE.

OTHER POLICIES AND PROCEDURES

AWS Testing Experience Concerns

Candidates are encouraged to provide comments or concerns regarding their testing experience. Concerns about the CRI testing experience must be submitted to AWS no later than 2 days after the test by clicking HERE.

Exam Content Feedback

AWS welcomes feedback regarding the content of exam questions. Content feedback received via the online Exam Feedback Form within 5 (five) days of the exam will be carefully reviewed by subject matter experts. All feedback helps improve the overall quality of AWS exams. In the event an error is found in the exam, the scoring is adjusted for all impacted candidates.

Appeals

If a candidate's exam results have been invalidated due to a violation of testing policy, the candidate may appeal in writing within 30 days from the date of the decision to the AWS Managing Director of Certification via email at certification@aws.org, fax to 305-443-7559 or mail to 8669 NW 36th Street #130, Miami, FL 33166.

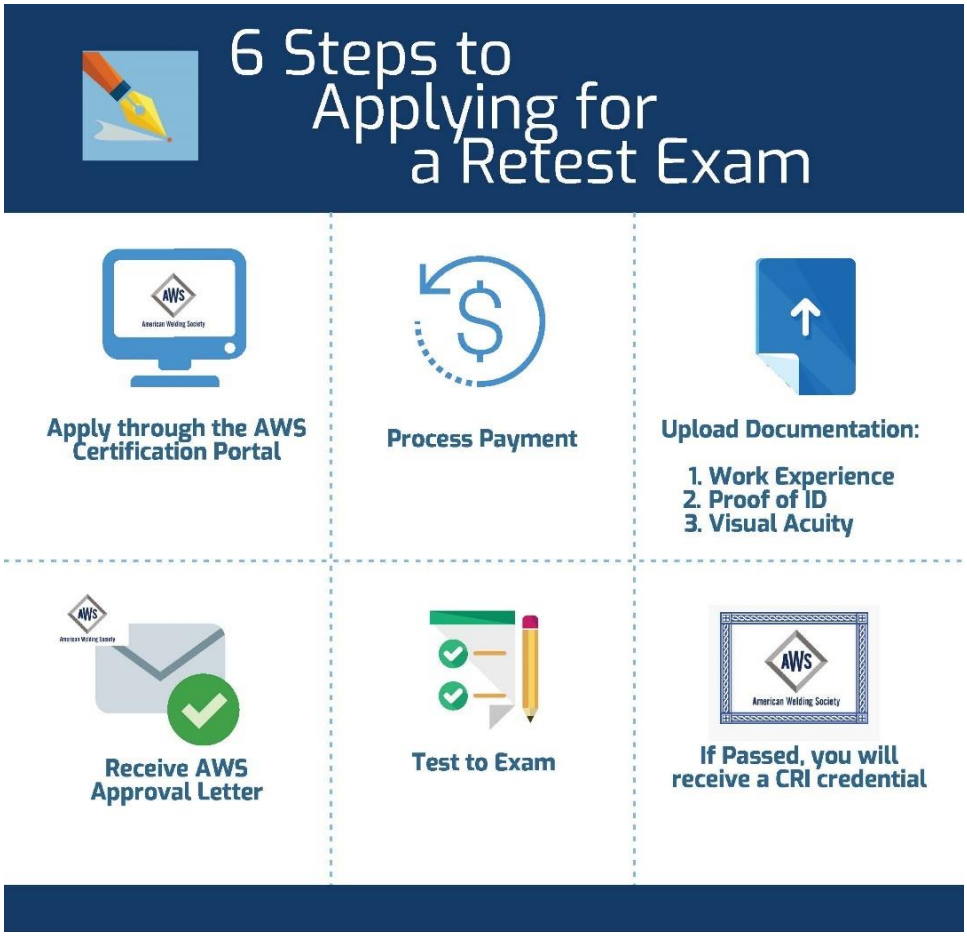
Rescore Request

Candidates who believe their CRI exams have been scored inaccurately may request a manual rescore by downloading, completing, and emailing the form found on the AWS website, along with the applicable fee.

Retaking the Exam

Candidates who do not pass all three sections of the CRI exam on the first try will be permitted to retest to any part(s) they failed or in a low passing score received that affected the overall average.

There is no limit on the number of retests that a candidate may take to achieve all of the examination criteria.



RENEWALS AND RECERTIFICATIONS

Renewing the CRI Credential

A CRI shall renew the CRI certification to maintain the CRI credential.

CRI Certification is valid for three years from date of issue. A CRI can renew their CRI credential twice: once at year three (3) and once at year six (6).

A CRI can renew through any of the following non-exam and exam options.

- Achievement of a passing score on the current Practical (Film Interpretation) exam.
- Submission of written documentation to support evidence of continued activity in the occupational or teaching position of radiographic interpretation.

Occupational

- Submit documented evidence of at least two months (350 hours) of experience performing specific duties of a CRI.
- The documentation must be attested to by the employer or client for whom the duties were performed.
- This experience shall have been performed during the immediately preceding three-year certification interval.

Teaching

- Submit documented evidence of at least four weeks (160 hours) of teaching experience in radiographic interpretation.
- The documentation must be attested to by the employer or client for whom the teaching was performed.

Both the non-exam and exam option will require evidence of a current valid vision examination.

Note: AWS may send reminder notices, but it remains the responsibility of the CRI to renew their certification credential or recertify on time.

CRIs who fail to renew by the expiration date will be listed as having an expired credential. AWS will accept renewal applications up to eleven (11) months in advance of the current certification expiration, and recommends a CRI send a renewal application at least sixty (60) days prior to the current renewal date. In the event the CRI does not provide a renewal application in a timely manner, a 60-day administrative extension period is permitted. However, the CRI Certification will be considered "Expired" during the administrative extension period.

Nine-Year Recertification

After eight (8) years and one (1) month, CRIs who wish to recertify may submit a 9-year recertification application via the Certification Application Portal. A CRI must achieve a passing score on the current Practical (Film Interpretation) exam.

APPENDIX A: CANDIDATE ATTESTATION AGREEMENT

You must review and agree to the terms of the Candidate Attestation Agreement before starting your test.

1. I attest that I am the person whose name appears in the form of identification I presented prior to admission to the testing room.
2. I understand and agree that all AWS certification exams are confidential and secure tests, protected by U.S. and international copyright laws.
3. I understand and agree that all test materials, including my answers, are the property of AWS, and I will not be provided access in any form except on the test itself.
4. I understand and agree that disclosing any exam question or answer to any person, in whole or in part, by any means whatsoever is unlawful and even potentially a criminal act, and I may be financially liable and/or charged with theft for doing so. I also understand and agree that if I disclose information about exam questions or answers, I may suffer adverse consequences, including but not limited to any or all of the following:
   – civil or criminal liability for copyright infringement or related conduct; and
   – disciplinary action by AWS, including prohibiting me from seeking certification in the future.
5. I understand and agree that AWS is the final authority that determines if I can take an exam.
6. I understand and agree that AWS has the right to cancel my scores if it finds any evidence of any irregularities whatsoever.
7. I understand and agree that furnishing inaccurate details about myself, breaching exam regulations, or acting contrary to the instructions outlined on the AWS/Prometric website, confirmation letter, and the AWS Certification and Qualification Standards may result in disciplinary action, including but not limited to removal from the test session under the supervision of the Test Supervisor or Test Center Administrator; score annulment; disqualification from taking the exam in the future; and potential legal liability.
8. I agree that upon obtaining my certification, I give permission to AWS to publish my certification status as it relates to its validity and duration.

I understand and accept the terms of this agreement.

Print Full Name: _____

Signature: _____ Date: _____

APPENDIX B: SAMPLE AWS CONFIRMATION LETTER

American Welding Society

AWS Registration Confirmation Letter

I. VERIFICATION OF CANDIDATE CONTACT INFORMATION:

Please verify your contact information and contact AWS immediately should any corrections be necessary.

AWS Member No.:	6543281
Full Name:	John Doe
Address:	8669 NW 36 St.
	Miami, FL 33166
Email:	Jdoe@gmail.com

II. VERIFICATION OF EXAM INFORMATION:

Please verify your exam information and contact AWS immediately should any corrections be necessary. Please note that changes cannot be made at the testing facility and rescheduling an exam may result in forfeiture of seat fee.

Exam Information:

Exam Type:	CRI Exam
Language:	English
Exam Date:	1/29/2022
Exam Group:	CRI - Houston, TX00822 - January - Group 1
Check-in Time:	7:00 - 7:25 AM
Exam Start Time:	7:30 AM
Location:	T.I.C. Kiewit
	3831 Technonlgy Forest Bouleva
	The Woodlands Texas 77381
Site Code:	**TX00822**

Package Type:	
Exam & Seminar	
Seminar Start Date:	1/24/2022
Seminar End Date:	1/28/2022

The following content must be reviewed by the candidate prior to taking his/her exam(s) in order to be fully prepared for testing. Failure to do so may result in forfeiture of exam fees, or disqualification from taking the exam.

1 of 2

APPENDIX B: SAMPLE AWS CONFIRMATION LETTER (2ND PAGE)

- AWS B5.15:2010 https://www.aws.org/library/doclib/B5.15-2010.pdf
- AWS QC15:2008 https://www.aws.org/library/doclib/QC15-2008.pdf
- Exam References and Editions for Open Book and AWS Sites https://www.aws.org/library/doclib/AWS-Open-book-Exam-Reference-List.pdf

For more information regarding your application status, certification, order history, and/or membership, please log in to your AWS account at: **https://my.aws.org/SignIn**

Should you have any questions regarding your exam, please feel free to contact the Certification Department at 800-443-9353, option 3.

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APPENDIX C: SAMPLE AWS OFFICIAL CRI SCORE REPORT

American Welding Society®

Certified Radiographic Interpreter (CRI)

Score Report

12345678
John Doe
8669 NW 36 St.
Miami, FL 33166
US

Exam Status: Pass
Certified Radiographic Interpreter
Exam Part Passing Score: 70
Your Composite Average Score: 87
Average Passing Score: 80

Congratulations! You have passed all the examinations of the Certified Radiographic Interpreter Program. CRI certification requires a passing score of 70% or greater on each part of the exam and a simple average of 80% or greater for all three parts.

Exam Type	Score
CRI - Part A Exam	90%
CRI - Part B Exam	80%
CRI - Part C Exam	91%
Composite Average Score:	**87%**

Your performance of each examination part by content category can be found in the next section.

Your certificate, wallet card, and official AWS stamp will be mailed to you within 4-6 weeks from the receipt of this letter. AWS QuikCheck is updated to reflect this new certification.

NOTE: It is your responsibility to contact AWS if you have not received your Credentials within 120 days of receiving this letter. After these 120 days, you may incur additional charges to order a duplicate.

APPENDIX D: TRAINING REFERENCE STANDARDS

Standard Title
AWS D1.1/D1.1M:2008, AWS Structural Welding Code – Steel
API 1104, Welding of Pipelines and Related Facilities, 19th, and 20th Edition
ASME Section V, Article 2, Boiler & Pressure Vessel Code, Nondestructive Examination 2007
ASME Section V, SE-94 (ASTM E 94-04) Standard Guide for Radiographic Examination)
ASME Section VIII, Division 1, Rules for Construction of Pressure Vessels, UW-51 and UW-52 and Appendix 10
ASTM E 747-04, Standard Practice for Design, Manufacture and Material Grouping Classification of Wire Image Quality Indicators (IQI) Used for Radiology
ASTM E 1025-05, Standard Practice for Design, Manufacture and Material Grouping Classification of Hole-Type Image Quality Indicators (IQI) Used for Radiology
ASTM E 1032-06, Standard Test Method for Radiographic Examination of Weldment
ASTM E 1742-08, Standard Practice for Radiographic Examination

Note: The above references will be available for temporary use by the students at the training course and by the candidates for certification. Users interested in purchasing these standards for their own use may do so at the places indicated at the end of Appendix E.

APPENDIX E: EXAMINATION REFERENCES

The examination questions may be taken from and answerable from the following reference information.

Reference Title
American Society for Nondestructive Testing (ASNT). 1985. Radiography and radiation testing. Vol. 3 of Nondestructive testing handbook. 2nd ed. Vol. 3. Columbus, Ohio: American Society for Nondestructive Testing.
American Society for Nondestructive Testing (ASNT). 1959. Nondestructive testing handbook. 1st ed. Columbus, Ohio: American Society for Nondestructive Testing.
American Society for Nondestructive Testing (ASNT). 1983. Making a radiograph. Vol. IV of Radiographic testing programmed instruction and classroom training books. Columbus, Ohio: American Society for Nondestructive Testing
American Society for Nondestructive Testing (ASNT). 1983. Film handling and processing. Vol. V of Radiographic testing programmed instruction and classroom training books. Columbus, Ohio: American Society for Nondestructive Testing.
American Society for Nondestructive Testing (ASNT). 1980. NDE characteristics of pipe weld defects, EPRI. ASNT-1195. Columbus, Ohio: American Society for Nondestructive Testing.
Hellier, C., and S. Wenk, 1984. Radiographic interpretation. ASTN-008. Columbus, Ohio: American Society for Nondestructive Testing.
American Welding Society (AWS) Committee on Methods of Inspection. 2000. Welding inspection handbook, 3rd ed. Miami: American Welding Society.
American Welding Society (AWS). 1995. Practical reference guide to radiographic interpretation acceptance criteria. Miami: American Welding Society.
Connor, L. P., ed. 1987. Welding processes. Vol.1 of Welding handbook. 8th ed. Miami: American Welding Society.
American Welding Society (AWS) Committee on Methods of Inspection. 1999. Guide for the nondestructive examination of welds. AWS B1.10:1999. Miami: American Welding Society.
Note: AWS, API, ASTM, and ASME standards are available through The AWS Book Store Customer Service 8669 NW 36th Street # 130. Telephone: 800-443-9353. Website: www.aws.org/standard.
ASNT documents are available from the American Society for Nondestructive Testing, PO Box 28518, 1711 Arlingate Lane, Columbus, Ohio 43228-0518. Telephone: 800-222-2768. Website: www.asnt.org.