



APPLICANT INSTRUCTIONS FOR EXAMINATION

Candidates must be present at the exam site by the designated time below for check-in. Candidates arriving after the check-in period **WILL NOT** be admitted to the exam. Each part of the exam will begin and end at the times designated by the Test Supervisor.

Check-in Time:
7:30 AM – 8:00 AM

Travel: On the day of the exam, we recommend travel arrangements be made after 9:00 PM, or the following day.

You must bring the following items with you to the exam site. Test supervisors will be checking for the following during the check-in period:

- Valid driver's license or passport
- Confirmation letter
- Codebook or references (if applicable)
- Battery powered calculator*

** Read about specific calculator requirements below.*

The following items are **NOT** permitted during any of the exams:

- Scratch pads or loose sheets other than published codebook errata
- Calculators or other devices that make noise
- Calculators with memory and/or text
- Photographic or video devices
- Cell phones can be turned on
- Items may be taken out of the exam room, including cell phones

Before the start of your examination, you will be given an answer sheet and exam booklet. **ALL** answers must be marked on the scantron sheet to be scored.

Important directions for marking answers (see Answer Sheet Guide on next page):

- Use black lead pencil only (No. 2 or softer)
- Do NOT use ink or ball-point pens
- Make heavy black marks that fill the bar completely
- Erase cleanly any answer you wish to change
- Make no stray marks on the answer sheet
- Do not mark two answers in one space

AWS will monitor the registration activity for the program you are registered to attend. If there is a low registration count 30 days from the program's starting date, AWS has the right to cancel the event. Please keep this in mind when making your airline reservations.

Exam Results: As a courtesy, an automatic email notice is sent to the email address on file once the exam is scored. E results will follow in the mail. You must notify the Certification Department of any mail or email address change prior to your exam being scored. In an effort to protect the privacy of all applicants, any information about your exam or exam score results will not be provided by telephone. All fees must be paid in full and missing documentation received prior to receiving exam results. If documentation is missing, your exam results will not be released.

If you have any questions regarding your account balance or need a receipt for payment, please contact AWS' Accounting Department at 1-800-443-9353, extension 240.

AMERICAN WELDING SOCIETY ANSWER SHEET

Military Time ONLY

Example:
8:00am = 0800
5:00pm = 1700



NAME	Jon Snow		
DATE	12/3/16	SITE CODE	FLO2016
CITY	Miami		

START TIME	STOP TIME	I.D. NUMBER
0 8 0 0	1 7 0 0	6 4 4 3 7 0
1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 0 0 0 0	● 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 ● 7 7 8 8 8 8 9 9 9 9 0 0 ● ●	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 ● 3 3 3 3 3 3 4 ● ● 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 ● 6 6 6 6 6 6 6 6 6 6 7 7 7 7 ● 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 ● 0 0 0 0

EXAMPLES

WRONG

1 A B C D E

2 A B C D E

3 A B C D E

RIGHT

4 A B C D E

IMPORTANT DIRECTIONS FOR MARKING ANSWERS

- Use black lead pencil only (No. 2 1/2 or softer)
- Do NOT use ink or ballpoint pens
- Make heavy black marks that fill the oval completely
- Erase cleanly
- Make no marks in the wrong area

Last name must be entered and bubbled in completely.

When left blank exam CANNOT be scored

ID Number must be entered and bubbled in completely

When left blank exam CANNOT be scored

APPLICANTS ARE REQUIRED TO COMPLETE ALL FIELDS.

If any fields are left blank by an applicant it will cause site scoring delays and ultimately affect other applicants from receiving their results on a timely basis.

LAST NAME	
S N O W	
A A A A A A A A A A A A A A	A A A A A A A A A A A A A A
B B B B B B B B B B B B B B	B B B B B B B B B B B B B B
C C C C C C C C C C C C C C	C C C C C C C C C C C C C C
D D D D D D D D D D D D D D	D D D D D D D D D D D D D D
E E E E E E E E E E E E E E	E E E E E E E E E E E E E E
F F F F F F F F F F F F F F	F F F F F F F F F F F F F F
G G G G G G G G G G G G G G	G G G G G G G G G G G G G G
H H H H H H H H H H H H H H	H H H H H H H H H H H H H H
I I I I I I I I I I I I I I	I I I I I I I I I I I I I I
J J J J J J J J J J J J J J	J J J J J J J J J J J J J J
K K K K K K K K K K K K K K	K K K K K K K K K K K K K K
L L L L L L L L L L L L L L	L L L L L L L L L L L L L L
M M M M M M M M M M M M M M	M M M M M M M M M M M M M M
N ● N N N N N N N N N N N N	N N N N N N N N N N N N N N
O ● O O O O O O O O O O O O	O O O O O O O O O O O O O O
P P P P P P P P P P P P P P	P P P P P P P P P P P P P P
Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Q Q Q Q Q Q Q Q Q Q Q Q Q Q
R R R R R R R R R R R R R R	R R R R R R R R R R R R R R
S ● S S S S S S S S S S S S	S S S S S S S S S S S S S S
T T T T T T T T T T T T T T	T T T T T T T T T T T T T T
U U U U U U U U U U U U U U	U U U U U U U U U U U U U U
V V V V V V V V V V V V V V	V V V V V V V V V V V V V V
W W W ● W W W W W W W W W W	W W W W W W W W W W W W W W
X X X X X X X X X X X X X X	X X X X X X X X X X X X X X
Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y
Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Z Z Z Z Z Z Z Z Z Z Z Z Z Z

AWS FORM			
A	B	C	1 2 3
● A A	● 1 1		
B B	2 2		
C C ●	3 3 ●		
D D D	4 4 4		
E E E	5 5 5		
F F F	6 6 6		
G G G	7 7 7		
H H H	8 8 8		
I I I	9 9 9		
J J J	0 0 0		

AWS Form, Test & Code Book = On Exam Book Cover
Must be entered and bubbled in completely
When left blank exam CANNOT be scored

TEST	CODE BOOK	KIT ID				
E	9	5	4	3	2	1
● A	1	1	1	1	1	●
B	2	2	2	●	2	
C	3	3	3	3	3	
D	4	4	●	4	4	
● E	5	●	5	5	5	
F	6	6	6	6	6	
G	7	7	7	7	7	
H	8	8	8	8	8	
I	●	9	9	9	9	
J	0	0	0	0	0	

Part B ONLY - 5 Digit ID Number
Kit ID = Located on the outside of kit box
When left blank exam CANNOT be scored.

AWS CERTIFICATION EXAMINATIONS CALCULATOR POLICY

Listed below are the calculator requirements for all AWS certification exams.

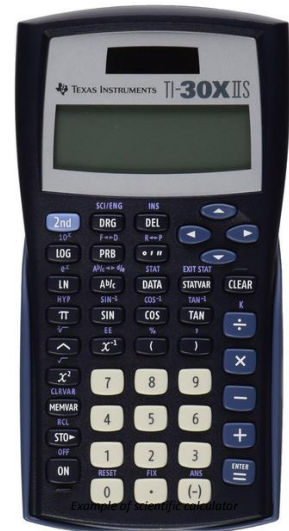
- All candidates must bring their own calculator to the exam site.
- Sharing calculators during the test is not permitted.
- Applicants should use a calculator with which they are familiar.
- Candidates may bring a back-up calculator if necessary.

Calculators permitted during testing include:

- Scientific calculators
- Construction calculators
- Four-function calculators

Unacceptable calculators:

- Graphing calculators*
- Laptops or other computers, tablets, cell phones, or smartphones
- Models that can access the Internet, have wireless, Bluetooth, cellular, audio/video recording and playing, camera, or any other smart phone type feature
- Models that have an alphabetical keyboard, pen-input, or stylus
- Models that use electrical outlets, make noise, or have a paper tape



* For CWEng candidates ONLY; graphing calculators are allowed that do not have audible sounds.

Certified Welding Inspector and Associate Welding Inspector (CWI and CAWI)

<u>Examination</u>	Minimum number <u>of questions</u>	Minimum percentage:	
		<u>CWI</u>	<u>CAWI</u>
Part A: FUNDAMENTALS	150	72%	60%
Part B: PRACTICAL	46	72%	60%
Part C: CODE APPLICATION	46-60	72%	60%

Part A: FUNDAMENTALS – Two hour closed book exam; 150 questions.

Part B: PRACTICAL– Two hour hands-on exam; 46 questions; using *Book of Specifications*.

This part of the exam requires the use of the Book of Specifications to answer some of the exam questions. Those registering for the seminar/exam must download the Part B Examination Book of Specifications from our website. On the exam date, all candidates will be provided and required to use an original copy of the *Book of Specifications*.

Candidates will be provided with an exam kit for this portion of the exam. Tools will be provided with the exam kit, which include fillet weld gauges, v-wac gauge, dial caliper, ruler, C4.1 gauge, protractor, hi-lo gage, magnifying glass, mirror, and flashlight. Exam will also include an Exam Exhibits Booklet which will contain exhibits such as PQRs, WPSs, and WQTRs for reference on some of the questions. Weld replicas will include a t-joint, groove, bend, and pipe specimen.

Part C: CODE APPLICATION – Two hour open code application exam; 46-60 questions. **Sharing of reference materials is not allowed.** (Refer to Body of Knowledge for the codebook edition being used).

*(Copies of the codebook index are **NOT** permitted. A receipt of purchase must be provided with electronic copies of your codebook.)*

Prior to the examination, you may tab or highlight your codebook. Written notes in the margins are also allowed. Errata sheets provided by the publisher or distributor of the codebook are permitted. You are NOT allowed to write in your codebook or highlight your codebook during the examination. Candidates found writing in their codebook will immediately be removed from the classroom resulting in disqualification from the exam and forfeit all examination fees.

If you are registered to take the AWS D1.1 seminar and exam package, you will be provided with an original copy of the D1.1 codebook. If you are registered to take the API 1104 Code Clinic or seminar week package, you must purchase your own copy. Codebooks and electronic copies may be purchased through WEX at 1-888-935-3464. All electronic copies shall include a watermark indicating who holds the license and or the document. A printed electronic copy will be allowed at the exam only if:

- The examination applicants must provide the Test Supervisor with an electronic copy receipt for proof of purchase.
- If your company is providing you with an electronic copy of a codebook you must provide a letter from your organization representative on company letterhead with a receipt showing that they have a license and has given you permission to use the copy. The letter must also state that you will return it once the exam is over and no additional copies can be produced.
- No additional copies can be produced for other exam applicants.
- Copy is bound (3-ring binder or spiral bound)

Codebook changes must be made no less than two (2) weeks prior to the confirmed start date of the seminar/exam. Changes **will not** be made after this time, no exceptions. Please review your exam confirmation letter prior to exam date for the correct codebook. Should you have any questions, please feel free to contact the Certification Department, extension 273.

Certified Welding Educator

<u>Examination</u>	Minimum number <u>of questions:</u>	Minimum
		<u>percentage:</u>
Part A: FUNDAMENTALS	150	60%
Part B: PRACTICAL	46	60%

Part A: FUNDAMENTALS – See *Certified Welding Inspector and Associate Welding Inspector* instructions

Part B: PRACTICAL – See *Certified Welding Inspector and Associate Welding Inspector* instructions

Senior Certified Welding Inspector

<u>Examination</u>	Minimum number
	<u>of questions</u>
Part A	138
Part B	62
Minimum percentage:	72%*

*of the total number of questions

Each part of the examination is two hours long and consists of multiple choice questions. The exams will be given in an open book format and you may bring any reference materials listed in the SCWI Body of Knowledge you feel may assist you on taking the exam. You are allowed to tab or highlight your materials with written notes in the margins as an aid to finding the answers to the exam questions. You will not be allowed to write in your materials during the examination. Candidates found writing on their material will immediately be removed from the classroom resulting in disqualification from the exam and forfeit all examination fees.

For more information on this exam, please access the [SCWI Body of Knowledge](#).

Certified Welding Supervisor

<u>Examination</u>	<u>Minimum number of questions</u>	<u>Minimum percentage</u>
Part A: FUNDAMENTALS	150	70%
Part B: PRACTICES & ECONOMICS	30	70%

Each part of the examination is two hours long and consists of multiple choice questions. Candidates are only allowed to bring the books listed on the Body of Knowledge to the Prometric testing site. You will not be permitted to write in your materials during the examination.

For more information on this exam, please access the [CWS Body of Knowledge](#).

Certified Welding Sales Representative

<u>Examination</u>	<u>Minimum # of questions</u>	<u>Minimum # of questions</u>
SINGLE PART	60	70%

The examination is two hours long and consists of 100 multiple choice questions. The exam will be given in a closed book format. The CWSR written examination subjects are listed in [AWS B5.14, Specification for the Qualification of Welding Sales Representatives](#).

9 Year Recertification Certified Welding Inspector by Part B Exam

<u>Examination</u>	<u>Minimum number of questions</u>	<u>Minimum percentage</u>
Part B: PRACTICAL	46	72%

Part B: PRACTICAL – See *Certified Welding Inspector and Associate Welding Inspector* instructions

Important Note: AWS QC1 defines endorsements as “*Indication of an additional skill documented in writing and added to one’s certification credential(s)*”. In fulfilling the 9-year recertification requirement, endorsements cannot be taken to the codebook to which your CWI certification was attained.

For more information on this exam and other 9-Year recertification options, please visit our [website](#).

Certified Radiographic Interpreter

<u>Examination</u>	<u>Minimum number of questions:</u>	<u>Minimum percentage*</u>
Part A: GENERAL	70	70%
Part B: PRACTICAL	40	70%
Part C: CODE SPECIFIC	78	70%

***80% overall average of all exams**

For the seminar and all parts of the examination, candidates will have access to Reference Codes and Standards which contains entire or excerpted portions of AWS, ASME, API, and ASTM standards. The Reference Codes and Standards are for educational purposes only and must be returned to AWS at the conclusion of the examination process. Candidates may bring a scientific calculator which includes a square root function.

Part A: GENERAL – This exam consists of 70 multiple choice questions and tests an individual’s knowledge of welding, radiographic theory, film selection, film processing, film handling and storage, codes, specifications and other standards. Parts A and C shall be administered in a single three hour session and candidates may not use any material other than the Reference Codes and Standards.

Part B: PRACTICAL – This exam consists of the evaluation of a set of 12 radiographs in a three hour exam consisting of 40 multiple choice questions. Each candidate will have use of a densitometer and film viewer in addition to the Reference Codes and Standards and other tools for convenience. Each test radiograph will be presented with a reader sheet giving details about the circumstances of the radiographic exposure. Candidates will be required to assess radiographic quality and indications for each test radiograph in accordance with one of three industry-accepted codes AWS D1.1, API1104, ASME Section V and VIII, and ASTM.

Part C: CODE SPECIFIC – This exam consists of 78 multiple choice questions that require the candidate to be knowledgeable with regards to the radiographic quality and film interpretation requirements of AWS D1.1, API1104, ASME Section V and VIII, and ASTM. Parts A and C of the CRI examination shall be given in a single three hour session and candidates will only have access to the Reference Codes and Standards to answer the questions.

Note: If you successfully pass your CRI certification examination, this credential can exempt you from your next 9-Year CWI or SCWI Recertification Exam. You will need to complete a 9-Year Recertification Application by CRI certification.

For more information on this exam, please access the [CRI Body of Knowledge](#).

Certified Welding Engineer

Each of the four examinations shall not have an individual score less than sixty percent:..... 60%

Minimum weighted percentage for all 4 parts: 70%

The CWEng examination is four parts. Parts 1 and 2 must be successfully completed in order to take Parts 3 and 4. The first two parts of the exam are closed book and cover basic science fundamentals and applied science fundamentals. Parts 1 and 2 are each two hour written multiple-choice exams (total time of four hours). They are given together and must be passed together. If the candidate fails only one part, only that part must be repeated.

Parts 3 and 4 of the exam are open book examinations on welding related disciplines and practical welding and related applications. They are each three hours in length. Part 3 is a 45 question essay exam. Part 4 is a 39 question multiple choice exam to the *D1.1 Structural Welding Code – Steel* (Refer to the [Body of Knowledge](#) for the current edition being used). Candidates, who have successfully passed Parts 1 and 2, will be invited to sit for these exams and a separate application must be completed. Candidates are invited to bring any textbooks, articles or codes in their library. Programmable calculators are allowed that do not have audible sounds.

The CWEng written examination subjects are listed in [AWS B5.16, Specification for the Qualification of Welding Engineers](#). For more information on this exam, please access the [CWEng Body of Knowledge](#).

Certified Robotic Arc Welding Operator & Technician

<u>Examination</u>	<u>Minimum number of questions</u>	<u>Minimum percentage</u>
Part A: CRAW FUNDAMENTALS	136	75%
Part B: CRAW PRACTICAL	30	75%

The examination is two hours long. Part A exam will be given in a closed book format. The Part B exam consists of 30 tasks are to be completed in sequential order. The CRAW written examination subjects are listed in [AWS QC19, Specification for AWS Certification of Robotic Arc Welding Personnel](#).

For more information on this exam, please access the [CRAW Performance Test Candidate Information Booklet](#).

Endorsement Examination

<u>Examination</u>	<u>Minimum number of questions:</u>	<u>Minimum percentage:</u>
Part C: CODE APPLICATION	46-60	72%

Code Application exam subjects earn full credit towards recertification:

- a. API 1104 Pipeline
- b. AWS D1.1 Structural Steel
- c. AWS D1.2 Structural Aluminum
- d. AWS D1.5 Bridge Welding
- e. AWS D15.1 Railroad
- f. AWS D17.1 Aerospace
- g. ASME Section IX, B31.1, + B31.3
- h. ASME Section VIII, Div. 1 and Section IX
- i. Structural Drawing Reading (Closed book)

30 72%

Non-code application exam subjects earn 20 PDHs towards 9-Year recertification:

- j. Structural Bolting Inspection

44 72%

Part C: CODE APPLICATION – See *Certified Welding Inspector and Associate Welding Inspector* instructions.

Important Note: AWS QC1 defines endorsements as “*Indication of an additional skill documented in writing and added to one’s certification credential(s)*”. In fulfilling the 9-year recertification requirement, endorsements cannot be taken to the codebook to which your CWI certification was attained.

For more information regarding study material, please visit our [website](#).

Certified Resistance Welding Technician- Beta

<u>Examination</u>	<u>Minimum number of questions:</u>	<u>Minimum percentage</u>
Single Part: General	100	75%

Closed book general knowledge exam on fundamental principles covering topics listed in clause 7.2 of [AWS QC20](#). For more information please visit the [website](#).

Examination Results

Because this is a beta exam, results will not be released until an analysis has been completed. This can take several months. You will receive your exam results by U.S. mail.

Disclaimer: A photocopy of any AWS standard does not constitute an official copy. The user bears all responsibility for the accuracy of content of photocopied materials.