

# **WELDING INSPECTION TECHNOLOGY WORKBOOK**

## **MODULE 1**

### **WELDING INSPECTION AND CERTIFICATION**

**Welding Inspection Technology Workbook**  
**Module 1—Welding Inspection and Certification**

- Q1-1** Why is there an increasing need for weld quality?
- safety
  - economics
  - less conservative design
  - government regulations
  - all of the above
- Q1-2** What AWS document describes the rules for the CWI certification program?
- AWS 5.5
  - AWS D1.1
  - AWS QC-1
  - AWS 5.1
  - AWS 14.1
- Q1-3** Weld quality control should begin after welding has been initiated.
- true
  - false
- Q1-4** What are the three welding inspector certifications covered in AWS QC-1?
- CAWI, CWI, BWI
  - CWI, CAWI, SCWI
  - SCWI, CWI, ACWI
  - Level I, II, and III
  - None of the above
- Q1-5** What is generally considered to be the most important quality of a welding inspector?
- graduation from a welding vocational program
  - an engineering degree
  - an associate degree
  - professional attitude
  - hold a certified welder certificate
- Q1-6** The vision requirements for a CWI are near vision acuity on:
- Jaeger J1 at 24 inches
  - Jaeger J2 at 12 inches
  - Jaeger J2 at 12 inches, with or without corrective lenses
  - the inspector cannot wear glasses
  - 20/20 vision
- Q1-7** The acronym KASH stands for:
- knowledge, attitude, skills, and habits
  - knowledge, application, skills, and habits
  - knowledge, attitude, skills, and honesty
  - knowledge, application, skills, and honesty
  - knowledge, attitude, sincerity, and honesty

**Q1-8** The welding inspector should have a basic understanding of:

- a. welding processes
- b. nondestructive testing methods
- c. a and b above
- d. codes and standards
- e. all of the above

**Q1-9** The term used to describe a delay in the production schedule to permit inspection is:

- a. NDE
- b. hold point
- c. pre-inspection
- d. reference point
- e. arc strike

**Q1-10** Inspection report corrections should be made by:

- a. rewriting the entire report
- b. reporting the correction to the welding foreman
- c. telling the welder what was done
- d. ignoring the original error
- e. single-line out the error, correct the error, date, and initial

**Q1-11** A definition of ethics is:

- a. using common sense and honesty
- b. living by the rules
- c. being fair and impartial
- d. basing decisions on facts
- e. all of the above

**Q1-12** For communications to be effective, it should form a “continuous loop.”

- a. true
- b. false

**Q1-13** The welding inspector must often communicate with:

- a. welders
- b. supervisors
- c. welding engineers
- d. members of management
- e. all of the above

**Q1-14** NDE personnel (other than CWI's) should be certified to what document?

- a. QC-1
- b. D1.1
- c. API 1104
- d. ASNT SNT-TC-1A
- e. certification is not needed

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- Q1-15** You must have a high school diploma to become a CWI.
- a. true
  - b. false
- Q1-16** The CWI exam has several parts; these are:
- a. fundamentals, practical, code
  - b. fundamentals, basic, code
  - c. basic, vision test, fundamental
  - d. code, vision test, practical
  - e. none of the above
- Q1-17** The CWI exam requires that the D1.1 Code be used for the open book Code test.
- a. true
  - b. false
- Q1-18** The CWI exam contains three parts, each two hours long.
- a. true
  - b. false
- Q1-19** The title of the AWS Standard, A3.0 is:
- a. Filler Metal Specifications
  - b. Standard Welding Terms and Definitions
  - c. Guide to CWI Certification
  - d. Requirements for CWI Certification
  - e. none of the above
- Q1-20** API Standard 1104 covers the fabrication of cross-country bridges.
- a. true
  - b. false
- Q1-21** Some of the approved codes/standards for the open book portion of the CWI exam are AWS D1.1, API 1104, AWS D1.5, and AWS D15.1.
- a. true
  - b. false
- Q1-22** Prior to starting a job assignment, the welding inspector should determine:
- a. what code, standard, or specification applies
  - b. what inspections should be conducted
  - c. when inspections should be conducted
  - d. where records are maintained
  - e. all of the above

**ANSWER KEY—MODULE 1**

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<b>Q1-19</b>	b	(pg. 1-12)
<b>Q1-20</b>	b	(pg. 1-11)
<b>Q1-21</b>	a	(pg. 1-11, 12)
<b>Q1-22</b>	e	(pg. 1-1)