

WELDING INSPECTION TECHNOLOGY WORKBOOK

MODULE 2

SAFE PRACTICES FOR WELDING INSPECTORS

Welding Inspection Technology Workbook
Module 2—Safe Practices for Welding Inspectors

- Q2-1** The welding inspector is exposed to which of the following safety hazards:
- a. radiation
 - b. falling objects
 - c. electrical shock
 - d. eye hazards
 - e. all of the above
- Q2-2** A document which covers safety in welding and cutting is:
- a. AWS D1.1
 - b. API 1104
 - c. ANSI/ASC Z49.1
 - d. ASME Section VIII
 - e. ASME B31.3
- Q2-3** The most important component of an effective safety and health program is:
- a. safety rules
 - b. safety procedures
 - c. protective equipment
 - d. welding helmet
 - e. management support
- Q2-4** Safety training is mandated under provisions of:
- a. AWS "Safe Practices"
 - b. OSHA
 - c. ASME Code
 - d. Welding Handbook, Volume 2
 - e. none of the above
- Q2-5** The abbreviation 'MSDS' means:
- a. Management Support and Daily Safety
 - b. Material Strength and Discontinuity Sheet
 - c. Material Safety Data Sheet
 - d. Material Strength and Data Sheet
 - e. none of the above
- Q2-6** The abbreviation 'TLV' means:
- a. Total Linear volume
 - b. Threshold Limit Value
 - c. Tack Length Value
 - d. Threshold Limiting Valve
 - e. none of the above
- Q2-7** Employers must make all applicable MSDS data available to their employees.
- a. true
 - b. false

Q2-8 Personnel must be trained to recognize safety hazards.

- a. true
- b. false

Q2-9 A 'Hot Work Permit' is required for:

- a. all welding operations
- b. all cutting operations
- c. all preheating operations
- d. areas where a fire hazard may occur during a welding, cutting, or preheating operation
- e. all of the above

Q2-10 Eye hazards found in welding operations include:

- a. flying particles
- b. radiation
- c. smoke and fumes
- d. all of the above

Q2-11 Protective equipment not suitable for eye protection from welding radiation includes:

- a. welding helmets with filter plates
- b. clear safety goggles
- c. safety goggles with filter plates
- d. protective screens
- e. properly positioned barricades

Q2-12 Suitable clothing materials for welding and cutting are:

- a. 65% cotton, 35% polyester
- b. wool
- c. chemically treated cotton
- d. b and c above
- e. none of the above

Q2-13 Before working on equipment where machinery guards have been removed, a 'Lock, Tag, and Try' procedure should be completed.

- a. true
- b. false

Q2-14 In avoiding fumes during welding, the most important factor is:

- a. the type of base metal
- b. the type of filler metal
- c. the type of welding process
- d. the position of the welding machine
- e. the position of the welder's head

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Q2-15 It is not important to consider ventilation during welding and cutting operations.

- a. true
- b. false

Q2-16 When entering confined spaces, a 'standby' is not required.

- a. true
- b. false

Q2-17 Some of the toxic materials the welder may be exposed to are:

- a. cadmium
- b. chromium
- c. nickel
- d. lead
- e. all of the above

Q2-18 Proper usage and handling of compressed gas cylinders include:

- a. not welding on cylinders
- b. not including the cylinders in the ground or electrical circuit
- c. securing them properly
- d. identifying the gas prior to use
- e. all of the above

Q2-19 Acetylene becomes unstable above what pressure?

- a. 5 psi
- b. 10 psi
- c. 15 psi
- d. none of the above

Q2-20 Oxygen is a flammable gas.

- a. true
- b. false

Q2-21 Electric currents above approximately 6 milliamperes are considered:

- a. not harmful
- b. primary currents
- c. harmful
- d. secondary currents
- e. b and c above

Q2-22 When operating gas cylinders, the primary valve should be opened:

- a. all the way on an acetylene cylinder
- b. one turn on an oxygen cylinder
- c. one turn or less on an acetylene cylinder
- d. all the way on an oxygen cylinder to backseat the valve
- e. c and d above

ANSWER KEY—MODULE 2

Q2-1	e	(pg. 2-1)
Q2-2	c	(pg. 2-1)
Q2-3	e	(pg. 2-1)
Q2-4	b	(pg. 2-1)
Q2-5	c	(pg. 2-2)
Q2-6	b	(pg. 2-2)
Q2-7	a	(pg. 2-2)
Q2-8	a	(pg. 2-3)
Q2-9	d	(pg. 2-5)
Q2-10	d	(pg. 2-6)
Q2-11	b	(pg. 2-6)
Q2-12	d	(pg. 2-7)
Q2-13	a	(pg. 2-8)
Q2-14	e	(pg. 2-8)
Q2-15	b	(pg. 2-8)
Q2-16	b	(pg. 2-10)
Q2-17	e	(pg. 2-12)
Q2-18	e	(pg. 2-12, 13)
Q2-19	c	(pg. 2-17)
Q2-20	b	(pg. 2-16)
Q2-21	e	(pg. 2-18)
Q2-22	e	(pg. 2-14, 17)