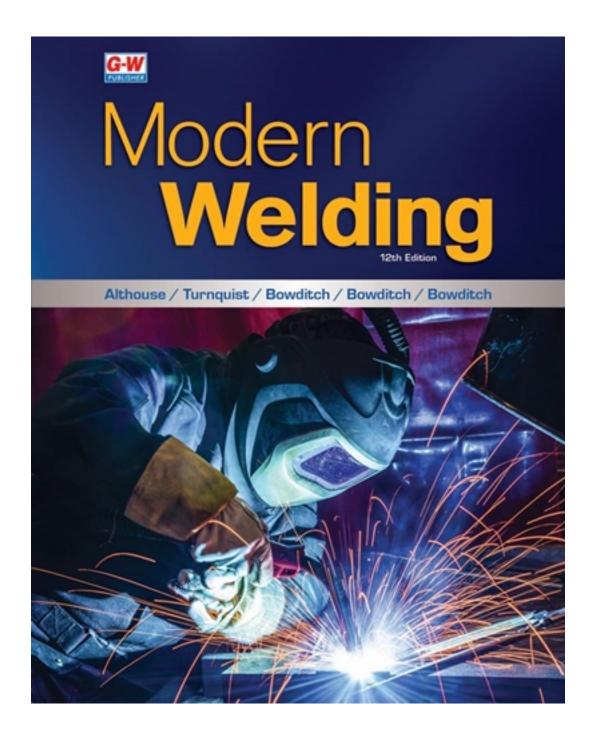
## Test Bank for Modern Welding 12th Edition by Althouse

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# Test Bank

## **Chapter 1 Safety in the Welding Shop**

#### MULTIPLE CHOICE

1.	A. keep your back straight and lift with your leg muscles B. lift over 35 pounds using your arm muscles C. always bend your back while lifting D. None of the above.
	ANS: A PTS: 1
2.	<ul> <li>Which of the following factors does <i>not</i> promote safety in the shop?</li> <li>A. Staying healthy in mind and body.</li> <li>B. Becoming well trained in the required job or task.</li> <li>C. Having a good attitude toward safety and safety rules.</li> <li>D. Thinking about pleasant things to pass the time.</li> </ul>
	ANS: D PTS: 1
3.	is a recommended material for protective clothing for welding or cutting.  A. Nylon B. Polyester C. Leather D. Asbestos
	ANS: C PTS: 1
4.	must be stored in an approved steel cabinet.  A. Gas cylinders  B. Cleaning chemicals  C. Welding rods  D. Leathers
	ANS: B PTS: 1
5.	It is recommended that be worn while resistance welding.  A. eye protection  B. pants without cuffs  C. a cap  D. All of the above.
	ANS: D PTS: 1
6.	<ul> <li>Which of the following safety practices is recommended when working around electricity?</li> <li>A. Let only trained technicians do repairs on electrical equipment.</li> <li>B. Always check for loose connections and worn insulation with the power off.</li> <li>C. Assume all electricity is dangerous.</li> <li>D. Voltages of 220 volts or more should be clearly marked as dangerous.</li> <li>E. All of the above.</li> </ul>
	ANS: E PTS: 1
7.	should be used to light an oxyfuel gas flame.

	<ul><li>A. A wooden match</li><li>B. A book match</li><li>C. A spark lighter</li><li>D. Another torch</li><li>E. An electric arc</li></ul>	ı						
	ANS: C	PTS:	1					
8.	Which of the following A. Lightly tinted were B. Welding helmet C. Welding helmet D. Welding helmet	elding go with a # with a #	oggles. 6 filter pla 10 filter pl	te. ate.	e and eye p	protection for	r resistance v	velding?
	ANS: A	PTS:	1					
9.	All hand tools should A. size B. loose parts C. cleanliness D. All of the above.		pected for _	·				
	ANS: B	PTS:	1					
10.	Gas cylinders should A. stored in an uprig B. always moved w C. fastened with cha D. All of the above.	ght positions of the state of t	tion afety cap i	n place				
	ANS: D	PTS:	1					
11.	Which of the followi A. Beryllium B. Lead C. Cadmium D. All of the above.	ng meta	ls may crea	ate toxic or d	leadly fume	es when weld	ded?	
	ANS: D	PTS:	1					
12.	Fire extinguishers an A. orange B. yellow C. yellow and black D. red E. light blue			uld be moun	ted on a sur	face that is	painted	
	ANS: D	PTS:	1					
13.	<ul><li>Which of the followi</li><li>A. Incandescent.</li><li>B. Fluorescent.</li><li>C. Ultraviolet.</li><li>D. All of the above.</li></ul>		langerous l	ight rays dev	eloped duri	ing oxyfuel	gas welding o	or cutting?
	ANS: C	PTS:	1					

14.	<ul><li>A Class B fire exting</li><li>A. combustible lique</li><li>B. electrical</li><li>C. solid material</li><li>D. combustible meta</li></ul>						
	ANS: A	PTS: 1					
15.	<ul><li>Which of the following is <i>not</i> a factor to consider regarding the hazard of fumes and gases?</li><li>A. Lack of general ventilation.</li><li>B. Confined area.</li><li>C. Wetness.</li><li>D. Electrode type.</li></ul>						
	ANS: C	PTS: 1					
16.	Documents that detail	il information about chemicals and substances used in the workplace are called					
	A. Safety Data Sheets B. Material Data Sheets C. Hazard Information Sheets D. Fire Safety Sheets						
	ANS: A	PTS: 1					
TRUI	E/FALSE						
17.	It is possible to receive a burn similar to a sunburn while arc welding.						
	ANS: T	PTS: 1					
18.	Some companies req	uire their workers to wear a back brace or support when lifting anything.					
	ANS: T	PTS: 1					
19.	Housekeeping is con	sidered an important factor in shop safety.					
	ANS: T	PTS: 1					
20.	A high-pressure shiel on its edge.	lding gas cylinder can be moved by slightly tipping the cylinder and rolling it					
	ANS: T	PTS: 1					
21.	Well-designed shops	have low ceilings to improve ventilation and airflow.					
	ANS: F	PTS: 1					
22.		etals that may emit toxic fumes, a welder must wear a quality respirator that us chemicals in the air.					
	ANS: T	PTS: 1					

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23. Heat stroke is characterized by heavy sweating.

	ANS: F	PTS:	1			
24. The AWS suggests that a label be placed on all major arc welding equipment in order to p the hazards of arc welding.						
	ANS: T	PTS:	1			
25.	Flame-retardant-treat	ted cott	on gloves are recommended for use in welding or cutting.			
	ANS: F	PTS:	1			
26.	Whenever the torch i	is <i>not</i> in	a welder's hand, it should be turned off.			
	ANS: T	PTS:	1			
27.		-	iety suggests that a sticker be attached to the major equipment in an ng station to warn of hazards.			
	ANS: T	PTS:	1			
28.	It is recommended the glasses.	nat the v	velding operator of a robot wear leathers, a hat or cap, and safety			
	ANS: F	PTS:	1			
29.	Engaging in horsepla	ay in the	e shop demonstrates a lack of wisdom or intelligence.			
	ANS: T	PTS:	1			
30.	To prevent back injuries when lifting, the back should always be kept straight and the object lifted with the arm muscles.					
	ANS: F	PTS:	1			
31.	A pressure regulator	is "OFI	"when the regulator adjusting screw is turned out.			
	ANS: T	PTS:	1			
32.	Grinders and wire wh	heels ar	e not considered hazardous machines.			
	ANS: F	PTS:	1			
33.	High-pressure shield	ing gas	cylinders should be fastened securely to a wall or column when stored			
	ANS: T	PTS:	1			
34.		-	recommended that the area be cleared of combustible materials, and at d with a fire extinguisher readily accessible.			
	ANS: T	PTS:	1			

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35.	. When the oxyfuel gas station is shut down, the gases should be bled from the cylinder outlet to the torch tip.					
	ANS: T PTS: 1					
36. Pants with narrow cuffs are preferred for welding or cutting.						
	ANS: F PTS: 1					
37.	Corners or stairways that stick out into the shop are always painted bright orange or red for visibility.					
	ANS: F PTS: 1					
38.	Arc welding safety inspections should be made with the power on.					
	ANS: F PTS: 1					
39.	Matches can be safely carried in trouser pockets during resistance welding.					
	ANS: F PTS: 1					
СОМ	PLETION					
40.						
	ANS: eyes					
	PTS: 1					
41.	Toxic fumes should always be picked up before they reach the welder's					
	ANS: face					
	PTS: 1					
42	For arc cutting, it is always necessary to clear the area of combustible materials and post a(n)					
72.						
	ANS: fire watch					
	PTS: 1					
43.	Ultraviolet and rays are harmful rays emitted during arc welding.					
	ANS: infrared					
	PTS: 1					
44.	Acetylene gas must never be used at a gauge pressure above					

	ANS: 15 psig 103 kPa
	PTS: 1
45.	Metal that has been welded and is left somewhere to cool should be marked so nobody is burned by touching it.
	ANS: HOT Hot
	PTS: 1
46.	Special training in the use of explosives is required to do welding.
	ANS: explosion
	PTS: 1
47.	While resistance welding, the welder should stand on a(n) platform if the floor is damp.
	ANS: insulated
	PTS: 1
48.	If the highest pressure marked on the face of a pressure gauge is 400 psig, it is recommended that this gauge should <i>not</i> be used at pressures above psig.
	ANS: 200
	PTS: 1
49.	Pliers or should be used to pick up metal in the welding shop.
	ANS: tongs
	PTS: 1
SHOI	RT ANSWER
50.	List five personal factors that may be responsible for causing accidents.
	ANS: Any five of the following: Stress, illness, fatigue, lack of job knowledge, age, lack of wisdom, poor attitude, drugs.
	PTS: 1

51.	Why are robots da	ingerous to anyone	working within	the robot's work	ing volume?

ANS:

The robot may hit them as it moves about rapidly.

PTS: 1

52. List two welding processes that produce sounds loud enough to injure the welder's hearing.

ANS:

Any two of the following: plasma arc welding, plasma arc cutting, explosion welding, arc gouging.

PTS: 1

53. List ways to prevent injury when lifting heavy objects.

ANS:

Keep back straight, lift with legs, know your weight limit, know the weight of the object, wear a lifting belt or back brace.

PTS: 1

54. What types of information do Safety Data Sheets provide?

ANS:

Safety Data Sheets provide information on all of the chemicals and substances found in the workplace, including their known health effects, symptoms, and first aid treatment.

PTS: 1

55. List three topics that should be covered during job or task training.

ANS:

Answers will vary, but may include safety hazards; proper operation sequence; correct placement of hands and feet; machine safety features.

PTS: 1