

## Chapter 01: Safety

True / False

1. In most jurisdictions, legislation mandates the use of safety shoes with steel shanks and steel toes, as well as certification.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

2. Jerking on a torque wrench will build muscle and will not harm you.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

3. Hearing muffs are a cheaper alternative to ear sponges (plugs).

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

4. One function of a rollover protection system is to absorb and dissipate the energy loaded onto a roof when a vehicle rolls over.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

5. A neutral flame is used for most welding and cutting operations.

- a. True
- b. False

Name \_\_\_\_\_ Clas \_\_\_\_\_ Date \_\_\_\_\_  
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## Chapter 01: Safety

*ANSWER:* True

*POINTS:* 1

### Multiple Choice

6. Which of the following can help you lead a healthier lifestyle?

- a. eating properly
- b. daily physical activity
- c. participating in team sports
- d. all of the above

*ANSWER:* d

*POINTS:* 1

7. ASTM Class 75 approved footwear must meet an internal clearance height of \_\_\_\_\_ when impacted with a force of 75 lb-ft (102 joules).

- a. 0.75 inches
- b. 0.25 inches
- c. 0.5 inches
- d. None of the above

*ANSWER:* c

*POINTS:* 1

8. \_\_\_\_\_ are engineered reinforcements installed onto or into a vehicle to prevent crushing or collapse of a vehicle cab when it is involved in a rollover event.

- a. ROPS
- b. TOPS
- c. FOPS
- d. FLOPS

*ANSWER:* a

*POINTS:* 1

9. Which type of welding is less commonly used in today's shops?

- a. MIG welding
- b. TIG welding
- c. Carbon
- d. stick arc welding

Name \_\_\_\_\_ Clas \_\_\_\_\_ Date \_\_\_\_\_  
: \_\_\_\_\_ s: \_\_\_\_\_ : \_\_\_\_\_

## Chapter 01: Safety

*ANSWER:* d

*POINTS:* 1

10. Technician A says that a flashback on an oxyacetylene torch is much more severe condition than backfire. Technician B says that backfire is more serious. Who is correct?

- a. Technician A      b. Technician B
- c. Both                d. Neither

*ANSWER:* a

*POINTS:* 1

11. Technician A says that you should lubricate the regulator, gauge, cylinder, and hose fittings on an oxyacetylene torch with oil. Technician B says that you should use grease. Who is correct?

- a. Technician A      b. Technician B
- c. Both                d. Neither

*ANSWER:* d

*POINTS:* 1

12. Technician A says that acetylene regulators and hose couplings use a right-hand thread. Technician B says that the regulator gauge working pressure should never be set at a value exceeding 15 psi (100 kPa). Who is correct?

- a. Technician A      b. Technician B
- c. Both                d. Neither

*ANSWER:* b

*POINTS:* 1

13. On an oxyacetylene torch, Technician A says that the green hose is for oxygen. Technician B says that the red hose is for fuel. Who is correct?

- a. Technician A      b. Technician B
- c. Both                d. Neither

*ANSWER:* c

*POINTS:* 1

Name \_\_\_\_\_ Clas \_\_\_\_\_ Date \_\_\_\_\_  
: \_\_\_\_\_ s: \_\_\_\_\_ : \_\_\_\_\_

## Chapter 01: Safety

14. When looking for pinhole leaks on a hydraulic system, Technician A says that you can use a bare or gloved hand. Technician B says that you should use a cardboard strip. Who is correct?

- a. Technician A
- b. Technician B
- c. Neither
- d. Both

*ANSWER:* b

*POINTS:* 1

15. Technician A says that before using a jack to raise a load, the technician should make sure that the weight rating of the jack exceeds the supposed weight of the load. Technician B says that most jacks used in service-repair shops are hydraulic. Who is correct?

- a. Technician A
- b. Technician B
- c. Both
- d. Neither

*ANSWER:* c

*POINTS:* 1

### Completion

16. Eye protection methods include safety glasses, splash goggles, and \_\_\_\_\_.

*ANSWER:* face  
shields

*POINTS:* 1

17. \_\_\_\_\_ is a condition where the fuel ignites within the nozzle of the torch, producing a popping or squealing noise.

*ANSWER:* Backfir  
e

*POINTS:* 1

18. Never use \_\_\_\_\_ in place of compressed air.

*ANSWER:* oxyge  
n

*POINTS:* 1

19. To adjust an oxyacetylene flame, the torch \_\_\_\_\_ valve is first turned on and the gas ignited.

Name \_\_\_\_\_ Clas \_\_\_\_\_ Date \_\_\_\_\_  
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## Chapter 01: Safety

*ANSWER:* acetylen  
e

*POINTS:* 1

20. \_\_\_\_\_ should never be used in garages in which gasoline, propane, and natural gas-fueled vehicles are present.

*ANSWER:* Incandescent bulbs

*POINTS:* 1