

Chapter 01: Safety

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

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

- a. True
- b. False

ANSWER: False

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

- a. True
- b. False

ANSWER: False

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

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

- a. True
- b. False

ANSWER: True

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

7. ASTM Class 75 approved footwear must meet an internal clearance height of 0.5 inches when impacted with a force of _____.

- a. 150 lb-ft (204 joules)
- b. 300 lb-ft (408 joules)
- c. 75 lb-ft (102 joules)
- d. 600 lb-ft (816 joules)

ANSWER: c

8. ROPS are engineered reinforcements installed onto or into a vehicle to prevent crushing or collapse of a vehicle cab when it is involved in a _____.

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- a. rollover event
- b. merging accident
- c. side- impact collision
- d. multiple vehicle collision

ANSWER:

a

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

ANSWER:

d

10. Technician A says that a flashback on an oxyacetylene torch is much more severe condition than backfire. Technician B says that causes of flashback are low pressure settings. Who is correct?

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

ANSWER:

a

11. Oxyacetylene precautions are being discussed. 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 a flame to check for leaks. Who is correct?

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

ANSWER:

d

12. Acetylene regulators are being discussed. 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

13. Oxyacetylene torches are being discussed, 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

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- d. Neither

ANSWER:

c

14. Pinhole leaks on a hydraulic system are being discussed. Technician A says that you can use a bare or gloved hand when looking for a leak. Technician B says that a pinhole leak may be microscopic in size. Who is correct?

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

ANSWER:

b

15. Jacks are being discussed. 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

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

ANSWER: face shields

17. The condition where the fuel ignites within the nozzle of the torch, producing a popping or squealing noise, is called _____.

ANSWER: Backfire

18. Never use oxygen in place of _____.

ANSWER: compressed air

19. To adjust an oxyacetylene flame, the torch acetylene valve is first turned on and the gas _____.

ANSWER: ignited

20. The type of bulb that should never be used in garages in which gasoline, propane, and natural gas-fueled vehicles are present is called _____.

ANSWER: incandescent