

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 13B

NAME _____

1. What is used to convert AC from the electrical outlet to DC to charge the high-voltage battery? 1. _____
A) The electric vehicle supply equipment (EVSE)
B) The on-board charger in the vehicle
C) The inverter in the vehicle
D) The converter in the vehicle

2. The circuit breaker on the EV charging circuit should be _____ of the maximum load. 2. _____
A) 80%
B) 60%
C) 125%
D) 100%

3. Technician A says that common clothes dryer NEMA 10-30 plug can be used to charge an EV. Technician B says that a 10-30 outlet should be re-wired to be a 14-30 outlet. Which technician is correct? 3. _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

4. Both the NEMA ____ and ____ are four-wire grounding devices that are used in residential use and either may also be used for home charging of electric vehicles. 4. _____
A) 10-30; 10-40
B) 14-30; 14-50
C) 6-50; 10-50
D) Any of the above

5. When charging an EV, the charging cord should be _____. 5. _____
A) coiled and the excess hung on the wall
B) coiled under the vehicle
C) uncoiled and left hanging between the wall and the vehicle
D) uncoiled and placed out of the way

6. All EVSE should have a _____ safety test mark. 6. _____
A) UL
B) ETL
C) NEC
D) Either a or b

7. Which of these is NOT a function of the electric vehicle supply equipment (EVSE)? 7. _____
A) Vehicle communications
B) Reduce risk of shock
C) Interior lighting
D) Verify proper connection

8. The vehicle charging station should be installed by _____. 8. _____
- A) licensed contractor
 - B) dealer technician
 - C) homeowner
 - D) Either a or b
9. If charging an EV with solar panels, _____ panels will be needed. 9. _____
- A) less than 3
 - B) 7 to 9
 - C) 15
 - D) None of these are correct.
10. A "fishy smell" while charging indicates _____. 10. _____
- A) overloaded circuits
 - B) loose wires
 - C) frayed cords
 - D) Any of the above

Answer Key

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4. B
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