

Skilled Trades

ASE-xEV-Level-2

**Automotive Service Excellence: xEV Technician Electrical
Safety Certification (Level 2)**

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Latest Version: 6.0

Question: 1

To de-energize the system, what instructions must be followed?

- A. Original Equipment Manufacturer (OEM)
- B. ASE
- C. OSHA
- D. Dealership

Answer: A

Explanation:

ASE provides generic guidelines for de-energizing the system. All of the Original Equipment Manufacturer (OEM) guidelines should be followed as these can differ based on the make and model of the vehicle.

The dealership guidelines should adhere to both OSHA and the OEM.

Question: 2

What does the warning light with a turtle mean?

- A. Reduce speed
- B. Slow mode
- C. Proceed with caution
- D. Limited power

Answer: D

Explanation:

A turtle dashboard warning light means that the EV has limited power. The warning light may be either red or amber-colored.

It could indicate a fault that prevents the vehicle from being responsive. This warning may signal a serious fault, so it needs to be looked at immediately.

Question: 3

What should be done if the work requires exposure or disconnection of high voltage?

- A. Ask the LEVEL ONE technician to do the work
- B. Use both hands to touch cables
- C. Take reading between all high-voltage cable ends and ground

D. Technician puts on conductive equipment

Answer: C

Explanation:

If the service work requires disconnecting high-voltage cables or exposure, additional testing must be performed. The technician must take a reading to confirm there's no voltage between the high-voltage cable ends, and the high-voltage cable ends and the ground. It's recommended to perform this work with the help of another technician present.

Technicians should never use both hands to touch high-voltage cables. They should never have conductive accessories or equipment on them while working around high-voltage systems.

Question: 4

What does a higher voltage rating on a meter mean?

- A. Zero transient-withstand rating
- B. Lower transient-withstand rating
- C. Higher voltage rating has nothing to do with transient-withstand rating
- D. Higher transient-withstand rating

Answer: D

Explanation:

The higher the voltage rating is on a meter, the higher the transient-withstand rating is. The input circuitry of the meter is meant to withstand better voltage transients without harming the individual using it.

Technicians want a meter that is meant to withstand the average voltage levels, spikes, and transients that would lead to an arc flash or shock.

Question: 5

When can insulating sleeves be used?

- A. With every job
- B. If parts will be touched with gloves alone
- C. Never
- D. At the technician's discretion

Answer: B

Explanation:

Insulating sleeves may be used if the work practices can't prevent touching energizing parts using gloves alone. These insulating sleeves must meet ASTM D1051 regulations for use.

The insulating sleeves should be inspected before and after each day's use and not worn if any contamination or damage is discovered.

Question: 6

Which of the following is the technician permitted to wear while working on EVs?

- A. Jewelry
- B. Arc Rated (AR) clothing
- C. Metal belt
- D. Jeans with change in the pocket

Answer: B

Explanation:

Arc Rated (AR) clothing is permitted by the NFPA regulations. The minimum arc rating depends on what type of voltage is being worked on.

Conductive materials should never be worn while working on EVs. Any conductive material should also be removed from the pockets before starting to work.

Question: 7

What is the purpose of CPR?

- A. Maintain blood flow
- B. Reduce electrical shock damage
- C. Promote breathing
- D. Encourage consciousness

Answer: A

Explanation:

CPR (Cardiopulmonary Resuscitation) is needed to keep the blood flow active after cardiac arrest. It may only provide partial blood flow, but that's enough to promote successful resuscitation by medical staff when they arrive.

CPR doesn't promote breathing or encourage consciousness. It also won't stop the damage that's been done if a person has been shocked.

Question: 8

Along with the CAT rating on the front of a multimeter, what other symbol should a technician look for?

- A. Made in the USA
- B. Double insulated
- C. Windproof

D. Waterproof

Answer: B

Explanation:

All digital multimeters should contain a double insulated symbol on the back of the tool. This symbol indicates that it has the highest level of protection.

Technicians also need a CAT III 600 V, CAT III 1000 V, or CAT IV 600 V rated multimeter. This designation should be listed on the front of the meter.

Question: 9

Which of the following procedures should be used in an uncontrolled environment?

- A. Powerout
- B. Lockout
- C. Tagout
- D. Rockout

Answer: B

Explanation:

Lockout is required if the environment is uncontrolled. All removed fuses, relays, and the Manual Service Disconnect (MSD) must be placed in a secure location to keep others from reinstalling the equipment and energizing the system.

Tagout is a procedure only meant for controlled environments. To use tagout, an established group policy must be in effect.

Question: 10

Who is permitted to lockout or tagout components?

- A. All technicians
- B. Customer
- C. Supervisor
- D. Technician working on the vehicle

Answer: D

Explanation:

Only the technician performing the maintenance or repair is qualified to lockout or tagout the components. These components must be secured and attributed to this technician.

It's not permitted to have another technician handle these components, as there's the threat of them being re-energized when they shouldn't be.

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