

CHAPTER 1

Introduction to the Automotive Industry

REVIEW QUESTIONS

Short Answer Key

- | | |
|--|-------|
| 1. Entry-level | 7. C |
| 2. 8 | 8. C |
| 3. emissions, safety, fuel economy, passenger comfort | 9. D |
| 4. service advisor or service writer | 10. C |
| 5. lifelong learning | |
| 6. B | |

Expanded Answer Key

1. Most technicians start as a(n) **entry-level** technician before acquiring the skills necessary to become a line technician.
2. For a technician to achieve ASE Master Automotive Technician certification, he or she must pass **8** (number) tests.
3. Two of the biggest reasons for changes in the automotive industry have been **emissions**, **safety**, **fuel economy**, and **passenger comfort**.
4. The **service advisor or service writer** often greets the customer, writes the repair order, and communicates with the technician and the customer.
5. The acceptance of **lifelong learning** means that as a technician, you will need to continue your education and training over the years to stay current with changes in technology.

6. Which of the following statements about ASE certification are correct?
- A. A technician must pass the Advanced Level tests to achieve Master Technician certification.
 - B. ASE certifies automotive, heavy-duty truck, and collision technicians.**
 - C. You must attend a NATEF-certified school to become ASE certified.
 - D. ASE certification is the same as being certified by the vehicle manufacturer.
7. Which of the following would not be considered a responsibility of an entry-level technician?
- A. Check brake pad wear
 - C. Replace a cylinder head gasket**
 - B. Inspect and maintain fluids
 - D. Perform a tire rotation
8. Technician A says that fuel economy and safety requirements have led to the extensive use of electronics in modern vehicles. Technician B says that customer expectations of comfort and reliability have caused the vehicle manufacturers to rely on electronics and computerization. Who is correct?
- A. Technician A
 - C. Both A and B**
 - B. Technician B
 - D. Neither A nor B
9. Which of the following automotive systems relies on electronic sensing and control?
- A. Brake system
 - C. Engine and transmission
 - B. Restraint system
 - D. All of the above**
10. All of the following are ASE certifications except
- A. Undercar specialist
 - C. Wheel and tire specialist**
 - B. Paint and refinish specialist
 - D. Automotive parts specialist

CHAPTER 2

Safety

REVIEW QUESTIONS

Short Answer Key

- | | |
|----------------------------------|-------|
| 1. orange | 6. D |
| 2. Personal protective equipment | 7. D |
| 3. Carbon monoxide | 8. B |
| 4. Material safety data sheets | 9. B |
| 5. negative, positive | 10. B |

Expanded Answer Key

1. High-voltage wiring is indicated by **orange** colored conduit and connectors.
2. **Personal protective equipment** are the items you wear to prevent injury while working in the automotive shop.
3. **Carbon monoxide** is a colorless and odorless gas formed during combustion that can cause illness and death.
4. **Material safety data sheets** provide information about how a chemical should be stored, handled, and disposed of.
5. When disconnecting a battery, disconnect the **negative** terminal first and then the **positive** terminal.
6. Two technicians are discussing how chemicals can enter the body: Technician A says that ingestion is the most common way chemicals enter a body. Technician B says wearing mechanics gloves prevents skin absorption of chemicals. Who is correct?
 - A. Technician A
 - B. Technician B
 - C. Both A and B
 - D. **Neither A nor B**

7. Technician A says that safety glasses shown in Figure 2-48 will protect against all types of hazards. Technician B says that work boots must meet the Z.87 safety standard. Who is correct?
- A. Technician A
B. Technician B
C. Both A and B
D. Neither A nor B



8. All of the following statements are correct except:
- A. Always use jack stands to support the vehicle with lifting with a floor jack.
B. Engine hoist capacity increases as the extension boom length is increased.
C. Common aerosol chemicals are often flammable.
D. Long hair can be caught in moving machinery.
9. Technician A says that corrosive wastes are hazardous due to their poisonous or toxic properties. Technician B says toxic wastes, such as used coolant, must be collected for recycling. Who is correct?
- A. Technician A
B. **Technician B**
C. Both A and B
D. Neither A nor B
10. Technician A says that EPA enforces the employee Right to Know laws regarding chemical safety. Technician B says that OSHA is responsible for workplace safety regulations. Who is correct?
- A. Technician A
B. **Technician B**
C. Both A and B
D. Neither A nor B