PREREQUISITE REVIEW

Introduction

This course begins with a review of the content covered in the prerequisite web-based courses. The review is designed to help you recall the key points and basic concepts of these courses. Comprehension of these key points and concepts is essential to being successful in this course.

Directions: Select the best answer for the questions listed on the following pages.

1. Which of the following is an example of kinetic energy?
   A. A vehicle in motion
   B. A motionless internal combustion engine
   C. A vehicle's braking system
   D. A starter motor's magnetic field

2. A braking system stops a vehicle by changing the vehicle's _____ into _____.
   A. Kinetic energy, Potential energy
   B. Kinetic energy, Heat energy
   C. Potential energy, Heat energy
   D. Heat energy, Kinetic energy

3. The rate at which a vehicle can convert kinetic energy into heat energy is the:
   A. power to accelerate.
   B. acceleration time.
   C. coefficient of friction.
   D. power to stop.

4. A vehicle's braking system converts kinetic energy into heat energy through:
   A. Friction.
   B. Inertia.
   C. Potential energy.
   D. All of the above.

5. During vehicle braking, weight transfer requires that:
   A. The rear brakes handle 60-70% of the braking.
   B. The front brakes handle 30-40% of the braking.
   C. The front brakes handle 60-70% of the braking.
   D. The front and rear brakes each handle 50% of the braking.