

Transportation Technology I

Transportation Technology I is a 12 week course for all students to begin their understanding of the automobile whether as a future owner or a technician.

Standard 1: Understand the “Soft Skills” that industry expects.

Benchmarks

1. Demonstrate reliability by attending class on a regular basis.
2. Demonstrate work ethic through the planning and completion of assignments and labs.
3. Demonstrate teamwork by planning and working with other students to complete lab activities.

Standard 2: Understand and apply safe practices in an automotive facility.

Benchmarks

1. Attend instruction in the safe practices in an automotive facility
2. Successfully complete a written test for all of the machines and processes found in an automotive facility

Standard 3: Understand how to purchase a new or used automobile

Benchmarks

1. Demonstrate the use of web sites that can assist in determining the value of a new or used car.
2. Become familiar with the observations and tests of a used car for potential purchase.

Standard 4: Understand the basics of how the automobile works

Benchmarks

1. Demonstrate knowledge of the 4 stroke cycle process and basic parts of an engine.
2. Become familiar with the basic systems of the automobile including brakes, suspension, lubrication, fuel, cooling, exhaust, and tires.
3. Through lab activities further the understanding of common service work on the basic systems

Standard 4: Understand normal maintenance of an automobile

Benchmarks

1. Demonstrate knowledge of the periodic maintenance, daily, weekly, quarterly, and yearly, needed on today’s automobiles.
2. Through lab activities understand what is included in normal maintenance and upkeep.
3. Be able to find information regarding factory suggested maintenance on a computer service system

Standard 5: Understand the most common repair procedures performed

Benchmarks

1. Demonstrate knowledge of the common repair problems associated with the above named systems of the automobile.
2. Through lab activities and computer estimating software understand the time and probable cost of common repair procedures