# Basic Automotive Care & Information Course No. 40050 Credit: 0.5

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| **Student name:** |  | **Graduation Date:** |  |

Pathways and CIP Codes: **Vehicle Maintenance & Repair (47.0600)**

Course Description: **Introductory level** course that provides students with the opportunity to learn practical car maintenance skills. Students will attain basic skills and knowledge needed to own and maintain a vehicle. The students will learn what to consider when buying a car, shopping for car insurance, acquiring a title, etc. (May be offered as a supplemental course in this pathway. This course will count toward 3 minimum high school credits required for pathway approval if taught at the high school level. It will not count as the ONLY Introductory course for this pathway.)

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Automotive Basics

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Identifying and safely use automotive tools and equipment. |  |
| 1.2 | How to locate information about the vehicle using owners/parts manuals or reliable internet sources |  |
| 1.3 | Perform a visual inspection for leaks and worn parts |  |

## Benchmark 2: Fluids, Belts and filters

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Check and clean battery terminals, jump start a vehicle, change fuses, headlights, and taillights. |  |
| 2.2 | Perform an oil and filter change |  |
| 2.3 | Inspect belts, hoses and filters |  |

## Benchmark 3: Tires & Steering Alignment

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Inspect tire wear and condition. |  |
| 3.2 | Find correct tire inflation information. |  |
| 3.3 | Check tire air pressure and properly fill to the correct level. |  |
| 3.4 | Identify and recognize procedures related to tire pressure monitoring systems. |  |
| 3.5 | Change a tire using factory vehicle equipment |  |
| 3.6 | Understand the importance of properly rotating the tires. |  |
| 3.7 | Identify concerns that relate to tire balance. |  |
| 3.8 | Visually check for alignment problems. |  |

## Benchmark 4: Electricl Systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Check and clean battery terminals |  |
| 4.2 | Demonstrate how to properly jump start a vehicle |  |
| 4.3 | Check headlights and taillights on a vehicle for proper operation |  |
| 4.4 | Learn how to inspect and or replace spark plugs and wires |  |

## Benchmark 5: Brake Systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Identify and inspect brake systems components. |  |
| 5.2 | Understand how to properly replace brake pads. |  |

## Benchmark 6: Engine, powertrain and chassis

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 6.1 | Identify parts and components. |  |
| 6.2 | Identify noises that are coming from the vehicle |  |
| 6.3 | Identify idle quality, or engine misfire concerns. |  |

## Benchmark 7: Vehicle Upkeep – Interior and Exterior

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 7.1 | Understand how to maintain a service record and what the intervals are for changing fluids, belts, filters, etc. and where this information can be found. |  |
| 7.2 | Maintain the interior and exterior of their vehicle to keep it in the best condition. |  |
| 7.3 | Understand how and when to replace windshield wipers |  |
| 7.4 | Understanding the importance of washing / waxing of a vehicle |  |

## Benchmark 8: vehicle purchasing process

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 8.1 | Research vehicle prices and compare to market value |  |
| 8.2 | Research insurance, title and taxes that can affect the price of the vehicle |  |
| 8.3 | Perform an inspection to know the condition and appearance of the vehicle before buying or selling |  |
| 8.4 | Understanding the registration process of the vehicle and how the title is handled. |  |

## Benchmark 9: Careers in automotive industry

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 9.1 | Research and explore career and educational opportunities in transportation. |  |
| 9.2 | Be able to identify the various fields in automotive industry: Vehicle Repair, Autobody Repair, Refinishing, Diesel Repair |  |
| 9.3 | Explain basic knowledge of alternative fuels and transportation sources and it is impact in society |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

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[pathwayshelpdesk@ksde.org](mailto:pathwayshelpdesk@ksde.org)



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