# Steering & Suspension I Course No. 40224 Credit: 0.5

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

Pathways and CIP Codes:Mobile Equipment Maintenance (47.9999) - Technology Strand II

Course Description: A comprehensive, **technical level** course designed to provide students with the basic theories, equipment, and skills needed to inspect and service steering and suspension systems.

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: Steering System Service and Repair

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Demonstrate and apply safe working practices with tools and machines. |  |
| 1.2 | Identify and follow safety procedures as outlined in OSHA guidelines. |  |
| 1.3 | Clean and inspect electric, hydraulic, and manual steering gear boxes. |  |
| 1.4 | Inspect, repair, and replace steering linkage components. |  |
| 1.5 | Diagnose steering and tire wear problems; determine necessary action. |  |

## Benchmark 2: Diagnose and Repair Front and Rear Suspension Systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Diagnose conventional and electronic front suspension systems; determine necessary action. |  |
| 2.2 | Inspect control arm and spring assemblies on conventional systems. |  |
| 2.3 | Inspect shock absorbers and stabilizer bars. |  |
| 2.4 | Diagnose McPherson strut assemblies and determine necessary action. |  |

## Benchmark 3: Tire and Wheel Alignment Service

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Perform a pre-alignment inspection |  |
| 3.2 | Inspect wheel hubs, spindles, and bearings. |  |
| 3.3 | Rotate and balance tires, install and torque wheel assemblies, and adjust tire pressure. |  |
| 3.4 | Inspect, diagnose, and calibrate tire pressure monitoring system |  |

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

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

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