# Small Engines & Powertrains II Course No. 40214 Credit: 0.5

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

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

Course Description: A comprehensive, **application level** course designed to provide students with advanced knowledge and skills common to all small engine operations and repair. (Prerequisite: Small Engines and Powertrains I.)

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: Click or tap here to enter text.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Perform preventive maintenance on tools and equipment. |  |
| 1.2 | Follow safety procedures as outlined in OSHA guidelines. |  |
| 1.3 | Perform electrical system service, diagnostics, and testing. |  |
| 1.4 | Perform fuel system service and diagnosis. |  |
| 1.5 | Perform ignition system service and diagnosis. |  |
| 1.6 | Describe and explain the principles of multiple cylinder engines. |  |
| 1.7 | Perform starting and charging system service and diagnosis. |  |
| 1.8 | Demonstrate advanced troubleshooting techniques. |  |
| 1.9 | Research and discuss the advantages and disadvantages of alternative power systems. |  |
| 1.10 | Prepare a repair order and estimate required time and materials to accomplish service procedure. |  |
| 1.11 | Discuss/Explain the principles of hydraulics. |  |
| 1.12 | Perform troubleshooting techniques. |  |

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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