# Electronic & Electrical Systems II Course No. 40202 Credit: 1.0

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

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

Course Description: A comprehensive, **application level** course designed to provide students with the basic skills needed to inspect, service, and repair electrical circuits and devices. (Prerequisite: Electronic & Electrical Systems 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 | Identify location of Hybrid vehicle high voltage circuit disconnect location and safety procedures. |  |
| 1.2 | Diagnose lighting system problems; inspect, replace, and aim headlights and bulbs. |  |
| 1.3 | Repair or replace sockets, wires, and switches. |  |
| 1.4 | Diagnose and repair gauge, warning, and horn circuits. |  |
| 1.5 | Diagnose and repair wiper, windshield washer, and motor-driven accessory circuits. |  |
| 1.6 | Diagnose and repair heated glass and electric locks. |  |
| 1.7 | Diagnose and repair cruise control systems. |  |
| 1.8 | Diagnose and repair supplemental restraint systems. |  |
| 1.9 | Diagnose and repair radio systems. |  |
| 1.10 | Diagnose and repair keyless entry and anti-theft systems. |  |
| 1.11 | Diagnose body electrical systems with a scan tool. |  |
| 1.12 | Use test equipment to record and diagnose waveforms from electrical sensors and actuators. |  |
| 1.13 | Use a scan tool to check computer network communication systems. |  |

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

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



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

The Kansas State Department of Education does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to any group officially affiliated with the Boy Scouts of America and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.