Assessment: Course Four Column

Courses (CTE) - Diesel Technology

DT 102:Basic Vehicle Electronics

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Ohm's Law - Understand ohm's Law; the relationship between voltage, current, and resistance in a circuit **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** 70% Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** Memorize and apply the six laws	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Fair Results Analysis: Students grasped the laws (09/09/2019)	**Action:** Give scenario type test (09/09/2019)
Voltage, voltage drop, current and resistance measurements - Demonstrate how to use a multimeter to make voltage, current and resistance measurements (1,2,3) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** 70% Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 70%	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Good Results Analysis: 90% achievement (09/09/2019)	**Action:** Same as being taught (09/09/2019)
Identify electronic components and describe current flow in electrical circuits - Identify electronic components and describe current flow in electrical circuits. (1),(2),(3) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral demonstrations in groups and	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Good Results Analysis: Many students grasped the voltage drop while others struggle a bit (09/09/2019)	**Action:** Develop more activities where voltage loss is being measured (09/09/2019)

Course Outcomes	Assessment Measures	Results	Actions
	individually. **Criterion:** 70%		
Locate sources of information related to electrical systems - Demonstrate the ability to locate sources of information related to electrical systems. (1,2,3) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 70%	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Fair Results Analysis: Some struggle with service information (09/09/2019)	**Action:** Develop lab activities with Cummins Insight and Cat SIS along with Mitchell on demand (09/09/2019)
Test batteries safely - Demonstrate how to test batteries safely (1,2,3) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 70%	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Fair Results Analysis: When students lack in ohms law understanding it affects the testing of batteries (09/09/2019)	**Action:** More videos of battery theory with ohms law basis (09/09/2019)
Build and test series, parallel, and series-parallel circuits - Demonstrate how to build and test series, parallel, and series-parallel circuits. (1,2,3) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 70%	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Fair Results Analysis: students work in pairs and don’t always engage in the lab work (09/09/2019)	**Action:** Buy more trainers so each student will have a trainer to do the labs on, hopefully engaging all students (09/09/2019)