

# Assessment: Course Four Column



## Courses (CTE) - Diesel Technology

### DT 102:Basic Vehicle Electronics

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Ohm's Law</b> - Understand ohm's Law; the relationship between voltage, current, and resistance in a circuit  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2019-2020</p>	<p><b>Exam</b> - (1) 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.</p> <p><b>Criterion:</b> 80 % efficient</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes                      95 percent of students understand these concepts. (10/10/2017)</p>	<p><b>Action:</b> Continue to teach but also develop more hands on exercise to strengthen their skills applying to a live circuit. (10/10/2017)</p>
<p><b>Determine the condition of circuits and components</b> - Know how to make voltage, voltage drop, current and resistance measurements to determine the condition of circuits and components  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2019-2020  <b>Start Date:</b> 08/03/2015</p>	<p><b>Exam</b> - ) 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.</p> <p><b>Criterion:</b> 80 % efficient:</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes                      Most know how to do the measurement with the exception of voltage drops. (10/10/2017)</p>	<p><b>Action:</b> Make more lab exercises with actual components for measuring voltage drops. Actual components from real equipment seem to be harder for them to grasp (10/10/2017)</p>
<p><b>Test electrical components</b> - Know and demonstrate how to load test electrical components using voltage drops  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2019-2020</p>	<p><b>Exam</b> - 1) Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students demonstrate competence by presenting oral</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes                      The students do fairly well with starters but other type of electrical devices they struggle more. (10/10/2017)</p>	<p><b>Action:</b> Develop other load exercise that does not deal with the starter directly. Such as a vent door motor or window motor. Increase the use of service manuals that go along with the</p>

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Start Date:</b> 08/03/2015</p>	<p>demonstrations in groups and individually.</p> <p><b>Criterion:</b> 80 % efficient</p>		<p>components. (10/10/2017)</p>
<p><b>Test batteries</b> - Know and demonstrate how to load test batteries</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2019-2020</p> <p><b>Start Date:</b> 08/03/2015</p>	<p><b>Exam</b> - 1) 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.</p> <p><b>Criterion:</b> 80 % efficient</p>	<p><b>Reporting Period:</b> 2016-2017</p> <p><b>Criterion Met:</b> Yes</p> <p>Most students understand this concept by the end of class. They struggle with problems out of the normal operation of the battery. (10/10/2017)</p>	<p><b>Action:</b> More real situations that is hard to simulate in the lab. Look for ways to make them more real to life. Incorporate the service manual in determining the level of charge etc. (10/10/2017)</p>
<p><b>Solder repair wiring</b> - Know and demonstrate how to solder repair wiring</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2019-2020</p> <p><b>Start Date:</b> 08/03/2015</p>	<p><b>Exam</b> - (1) 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.</p> <p><b>Criterion:</b> 80 % efficient</p>	<p><b>Reporting Period:</b> 2016-2017</p> <p><b>Criterion Met:</b> Yes</p> <p>The students do really well with this concept. (10/10/2017)</p>	<p><b>Action:</b> Keep teaching it as it has been already. Also include the use of sealants that protect the repair afterwards. (10/10/2017)</p>
<p><b>Ability to read electrical schematics</b> - Know and demonstrate the ability to read electrical schematics</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2021-2022</p> <p><b>Start Date:</b> 10/10/2017</p>	<p><b>Exam</b> - 1) 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.</p> <p><b>Criterion:</b> 80% efficient</p>	<p><b>Reporting Period:</b> 2016-2017</p> <p><b>Criterion Met:</b> Yes</p> <p>Students do well in finding the circuit but struggle on the small details of what the diagram contains as far as information.</p> <p>(10/10/2017)</p>	<p><b>Action:</b> Keep teaching the concepts and expose them to other manufactures diagrams for more practice (10/10/2017)</p>