# Assessment: Course Four Column

## Courses (CTE) - Diesel Technology

## DT 215:Electronic Diesel Engines

| *Course Outcomes* | *Assessment Measures* | *Results* | *Actions* |
|---|---|---|---|
| **Computer components and operation -** Know Computer components and operation.<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2023-2024 | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding (10/24/2018) | |
| **Sensor operation -** Know sensor operation.<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2016-2017<br>**Start Date:** 06/19/2014 | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final. | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: Power point worked well. Adding more hands on in the Lab (10/24/2018) | **Action:** Expanded lab tasks working with service information and on motor sensors (10/24/2018) |
| **Electronic component operation as related to fuel systems. -** Know electronic component operation as related to fuel systems.<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2016-2017<br>**Start Date:** 06/19/2014 | **Exam -** Written Examination Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69% | |

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|---|---|---|---|
| | individually and pass a written final | Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding. (10/24/2018) | |
| **Electronic component operation as related to fuel systems and locate faulty electronic components using schematics -** Know electronic component operation as related to fuel systems and Demonstrate the ability to locate faulty electronic components using schematics<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2023-2024 | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding (10/24/2018) | |
| **Electronic injector operation -** Know electronic injector operation.<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2016-2017<br>**Start Date:** 06/19/2014 | **Exam -** Written Examination Students will be asked to show competence by kinesthetic demonstration<br><br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final: | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding (10/24/2018) | |
| **C.A.N networks and demonstrate the ability to locate faulty components -** Know function and diagnostics of C.A.N networks and demonstrate the ability to locate faulty components.<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2023-2024 | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding (10/24/2018) | |
| **L.I.N networks demonstrate the ability to locate faulty components -** Know function and diagnostics of L.I.N networks demonstrate the ability to locate faulty components | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79% | |

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|---|---|---|---|
| **Course Outcome Status:** Active<br>**Next Assessment:** 2023-2024 | **Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final | 6%passed with 60-69%<br><br>Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding (11/06/2018) | |
| **Run overheads on electronic engines -** Demonstrate the ability to run overheads on electronic engines<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2021-2022<br>**Start Date:** 10/10/2017 | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: As this is mostly a Lab demonstration followed by a Lab task student need more lab time to complete (11/06/2018) | |
| **Forced induction systems -** Have a working knowledge of diesel engine forced induction systems<br>**Course Outcome Status:** Active<br>**Next Assessment:** 2021-2022<br>**Start Date:** 12/04/2017 | **Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration<br>**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final. | **Reporting Period:** 2017-2018<br>**Criterion Met:** Yes<br>35% passed with 90% of better<br>47% passed with 80% -89%<br>12%passed with 70-79%<br>6%passed with 60-69%<br><br>Results Analysis: Last revision to Lab and power point worked well and showed student improvement to concept/ theory understanding (11/06/2018) | **Action:** Third year running this course since it was updated. Made adjustment to help new student better understand the principals of fuel controls and make it easier to understand along with expanded lab tasks. As stated last assessment the course in its original lay out would work very well at a 300 level class this class has been adjusted to fit into the lower level placement (11/06/2018) |