

# Assessment: Course Four Column



## Courses (CTE) - Diesel Technology

### DT 106: Heavy Duty Trans/Power Tr

Course Outcomes	Assessment Measures	Results	Actions
<p><b>Safety precautions power train systems and components</b> - Know and demonstrate safety precautions when working on power train systems and components. (1),(2),(3)</p> <p><b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2019-2020</p>	<p><b>Exam</b> - Written exams and practices. <b>Criterion:</b> Pass exams. Perform safety practices in the shop.</p>	<p><b>Reporting Period:</b> 2016-2017 <b>Criterion Met:</b> Yes 0% passed with 90% of better 25% passed with 80% -89% 75%passed with 70-79% (12/07/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/07/2017)</p>
<p><b>Gears, gear ratios, and speed</b> - Know and demonstrate how to identify gears, gear ratios, and speed. (1),(2),(3)</p> <p><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. Students will be asked to show competence by kinesthetic demonstration <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017 <b>Criterion Met:</b> Yes 0% passed with 90% of better 25% passed with 80% -89% 75%passed with 70-79% (12/07/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/07/2017)</p>
<p><b>Differential- preloads, backlash, Run-out, ring and pinion adjustments, tooth contact patterns.</b> - Know and demonstrate how to set up a differential. Preloads, backlash, Run-out, ring and pinion adjustments, tooth contact patterns. (1),(2),(3)</p> <p><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. Students will be asked to show competence by kinesthetic demonstration <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017 <b>Criterion Met:</b> Yes 0% passed with 90% of better 25% passed with 80% -89% 75%passed with 70-79% (12/07/2017)</p>	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Tooth contact patterns</b> - Know and demonstrate proper tooth contact patterns. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final:</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/07/2017)</p>	
<p><b>Power flow through a tandem axle power divider differential assembly</b> - Know and demonstrate the power flow through a tandem axle power divider differential assembly. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final.</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/07/2017)</p>	
<p><b>Know and demonstrate power flow through a standard transmission</b> - Know and demonstrate power flow through a standard transmission. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final.</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/07/2017)</p>	
<p><b>Adjust both a single and double disc clutch</b> - Know and demonstrate how to adjust both a single and double disc clutch. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/07/2017)</p>	
<p><b>Function of a torque convertor</b> - Know and demonstrate the function of a torque convertor. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/07/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions</p>

Course Outcomes	Assessment Measures	Results	Actions
	competence by presenting oral demonstrations in groups and individually and pass a written final		(12/07/2017)
<p><b>Function of different types of torque convertors</b> - Know and demonstrate the function of different types of torque convertors. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)</p>
<p><b>Power-shift transmission control valves</b> - Know and demonstrate the function of power-shift transmission control valves. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	
<p><b>Torque convert inlet and outlet pressure tests and analyze the results</b> - Know and demonstrate how to make torque convert inlet and outlet pressure tests and analyze the results. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	
<p><b>Make and analyze power-shift clutch pressures</b> - Know and demonstrate how to make and analyze power-shift clutch pressures. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final.</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	

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<p><b>Planetary gear sets</b> - Know and demonstrate power flows through planetary gear sets.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)</p>
<p><b>How to make and calculate driveline angles</b> - Know and demonstrate how to make and calculate driveline angles. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final.</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	
<p><b>Components of a power-shift transmission and torque convertor system</b> - Identify of the components of a power-shift transmission and torque convertor system. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final.</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)</p>
<p><b>Failure Analysis procedure to find the Root Cause of the Failure. (1),(2),(3)</b> - Know and demonstrate how to follow the proper Failure Analysis procedure to find the Root Cause of the Failure. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)</p>
<p><b>Recognize different types of Fractures</b> - Know and demonstrate how to recognize different types of Fractures. (1),(2),(3)  <b>Course Outcome Status:</b> Active</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% of better  25% passed with 80% -89%  75%passed with 70-79% (12/08/2017)</p>	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Next Assessment:</b> 2021-2022</p>	<p>competence by presenting oral demonstrations in groups and individually and pass a written final.</p>		
<p><b>Different types of Wear</b> - Know and demonstrate how to recognize different types of Wear. (1),(2),(3)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final.</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% or better  25% passed with 80% -89%  75% passed with 70-79% (12/08/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)</p>
<p><b>Components of a Allison 1000/2000</b> - Identify of the components of a Allison 1000/2000  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2021-2022</p>	<p><b>Exam</b> - Written Examination. Students will be asked to show competence by kinesthetic demonstration  <b>Criterion:</b> Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final</p>	<p><b>Reporting Period:</b> 2016-2017  <b>Criterion Met:</b> Yes  0% passed with 90% or better  25% passed with 80% -89%  75% passed with 70-79% (12/08/2017)</p>	<p><b>Action:</b> Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)  <b>Follow-Up:</b> Adjust curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/08/2017)</p>