Assessment: Course Four Column



Courses (CTE) - Diesel Technology

DT 106:Heavy Duty Trans/Power Tr

Course Outcomes	Assessment Measures	Results	Actions
Safety precautions power train systems and components - Know and demonstrate safety precautions when working on power train systems and components. (1),(2),(3) Course Outcome Status: Active Next Assessment: 2019-2020	Exam - Written exams and practices. Criterion: Pass exams. Perform safety practices in the shop.	Reporting Period: 2016-2017 Criterion Met: Yes 0% passed with 90% of better 25% passed with 80% -89% 75% passed with 70-79% (12/07/2017)	Action: Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/07/2017)
Gears, gear ratios, and speed - Know and demonstrate how to identify gears, gear ratios, and speed. (1),(2),(3) Course Outcome Status: Active Next Assessment: 2019-2020 Start Date: 08/03/2015	Exam - Written Examination. Students will be asked to show competence by kinesthetic demonstration Criterion: Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final	Reporting Period: 2016-2017 Criterion Met: Yes 0% passed with 90% of better 25% passed with 80% -89% 75%passed with 70-79% (12/07/2017)	Action: Add or adjusted curriculum to focus on the newly added Allison 1000/2000 automatic transmissions (12/07/2017)
Differential- preloads, backlash, Runout, ring and pinion adjustments, tooth contact patterns Know and demonstrate how to set up a differential. Preloads, backlash, Runout, ring and pinion adjustments, tooth contact patterns. (1),(2),(3) Course Outcome Status: Active Next Assessment: 2019-2020 Start Date: 08/03/2015	Exam - Written Examination. Students will be asked to show competence by kinesthetic demonstration Criterion: Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final	Reporting Period: 2016-2017 Criterion Met: Yes 0% passed with 90% of better 25% passed with 80% -89% 75%passed with 70-79% (12/07/2017)	

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

25% passed with 80% -89%

75%passed with 70-79% (12/07/2017)

demonstration

Criterion: Students demonstrate

Next Assessment: 2021-2022

automatic transmissions

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

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

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

transmissions (12/08/2017)