Assessment: Course Four Column

Courses (CTE) - Diesel Technology

DT 106 Whitehead:Heavy Duty Transmissions and Power Trains

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
safety precautions power train systems - Know and demonstrate the safety precautions to be applied when working on power train systems and components. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50% passed with 70-79% 0% passed with 60-69% 0% passed with below 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory (09/03/2019)	
Calculate gear ratios and speed - Know and demonstrate how to calculate gear ratios and speed. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50% passed with 70-79% 0% passed with 60-69% 0% passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	**Action:** Adjust to fit Ely schedule and course lay out (09/03/2019)
Differential; preloads, backlash, run-out, and ring and pinion	**Exam -** Written Examination Students will be asked to show	**Reporting Period:** 2018-2019 **Criterion Met:** Yes	**Action:** Adjust to fit Ely schedule and course lay out. Incorporate

Course Outcomes	Assessment Measures	Results	Actions
adjustments, proper tooth contact patterns - Know and demonstrate how to set up a differential; preloads, backlash, run-out, and ring and pinion adjustments, proper tooth contact patterns. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	competence by kinesthetic demonstration **Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final	14% passed with 90% of better 26% passed with 80% -89% 50%passed with 70-79% 0%passed with 60-69% 0%passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory (09/04/2019)	newly purchased tooling and differentials (standardized). (09/04/2019)
Power flow through a tandem axle power - Know and demonstrate the power flow through a tandem axle power divider differential assembly. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50%passed with 70-79% 0%passed with 60-69% 0%passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory (09/03/2019)	**Action:** Adjust to fit Ely schedule and course lay out (09/03/2019)
Single and double disc clutch - Know and demonstrate how to adjust both a single and double disc clutch **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50% passed with 70-79% 0% passed with 60-69% 0% passed with bellow 59% (no show) Results Analysis: Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	**Action:** Adjust to fit Ely schedule and course lay out. (09/03/2019)
Torque convertors - Know and demonstrate the function of a torque convertor. **Course Outcome Status:** Active	**Exam -** Written Examination Students will be asked to show competence by kinesthetic demonstration	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89%	

Course Outcomes	Assessment Measures	Results	Actions
Next Assessment: 2023-2024	**Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and individually and pass a written final	50%passed with 70-79% 0%passed with 60-69% 0%passed with bellow 59% (no show) Results Analysis: 1. Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	
Planetary gear sets - Know and demonstrate power flows through planetary gear sets. **Course Outcome Status:** Active **Next Assessment:** 2023-2024 **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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50%passed with 70-79% 0%passed with 60-69% 0%passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	
Driveline angles - Know and demonstrate how to make and calculate driveline angles **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50%passed with 70-79% 0%passed with 60-69% 0%passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	**Action:** Adjust to fit Ely schedule and course lay out (09/03/2019)
Power flow and how to disassemble inspect, reassemble an Allison automatic transmissions - Know and demonstrate the power flow and how to disassemble inspect, reassemble an Allison automatic transmissions **Course Outcome Status:** Active	**Exam -** Written Examination. Students will be asked to show competence by kinesthetic demonstration **Criterion:** Students demonstrate competence by presenting oral demonstrations in groups and	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50% passed with 70-79% 0% passed with 60-69%	

Course Outcomes	Assessment Measures	Results	Actions
Next Assessment: 2023-2024	individually and pass a written final	0% passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	
Power flow and how to disassemble inspect, reassemble SM465 standard transmissions - Know and demonstrate the power flow and how to disassemble inspect, reassemble SM465 standard transmissions **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**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:** 2018-2019 **Criterion Met:** Yes 14% passed with 90% of better 26% passed with 80% -89% 50%passed with 70-79% 0%passed with 60-69% 0%passed with bellow 59% (no show) Results Analysis: Revision power point and new standardized lab work, worked very well to improving student understanding of tasks and concept/ theory. (09/03/2019)	**Action:** This course is shaping up very nicely with all the standardized equipment making demonstrations and lab work much easier for the students to follow. Biggest hurdle is dealing with the lack of lab space in the Ely lab. Next year possess more challenges with the 3 hr classes and two classes using the same small area . (09/03/2019)