# **Unit 3 DRIVE TRAINS**

Content Area: Applied Technology

Course(s): Time Period:

Length:

Marking Period 1 10 -15 class periods

Status: **Published** 

#### **Summary of Unit**

Students will expand on their knowledge of the automotive drive train. The learning experience will focus on the areas of front-wheel drive, rear-wheel drive, clutch, and differential operation. The students will be engaged in the disassembly and reassembly of major drive train components on live automobiles. They will learn how each assembly operates, how to diagnose common system complaints and the proper method of repair of each component or part. Removal and installation of major components, web-based research, task sheets, and textbook, will be part of the unit along with writing prompts, written tests, and group discussions.

July 2022

### **ESESSENTIAL QUESTIONS/ ENDURING UNDERSTANDINGS**

#### **Essential Questions**

- A clutch is a major part of the drive train what does it do, how does it operate, and what are some symptoms of a clutch that is not operating properly?
- The transmission is responsible for the transmission of engine power to the axles, how does it do this and what are some problems that can occur?
- Transaxles and conventional transmissions have major differences what are they?

#### **Enduring Understandings**

- Students will understand the proper methods of diagnosing and repairing automotive drive train concerns and problems.
- They will understand the importance of using systematic diagnosis techniques in order to solve a problem and make a repair suggestion.

#### **LEARNING PLAN**

- Teacher-led discussions on different drive train components and their repair procedures.
- Hands-on Job Sheets on drive train components, location, operation, and repair.

• Use of the Drive train chapter in Modern Automotive Technology.
• Written tests and writing prompts on the automotive drive train.
• Group discussions and essential questions on drive trains throughout the lesson.
ASSESSMENT
Summative
Written tests
Hands-on Job Sheets
Written Essay
Formative
Verbal questioning during Hands-on Job Sheets
Visual Observations
Alternative
Student presentation on unit
Benchmark
Midterm/Final Exam
MATERIALC
MATERIALS Text Book; Modern Automotive Technology
Job Sheets
Visual aids
Videos

Snop venicles
All Data Automotive Internet Program
Google
Electrical, Pneumatic, and Hydraulic tools

Various hand tools

## **Accomodations**

 $\underline{https://docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpDLS4Ego1W1eaIrGYTo/docs.google.com/spreadsheets/d/1CvoX6NXdGUPtTPcEqPOsnWbqpD$