

# DIESEL TECHNOLOGY

Inspect, maintain, and repair the electrical systems, heavy duty breaks, lighting, and engine systems of diesel vehicles. Students participate in an on site internship at the Pickens diesel shop, and off site internships in industry.

**starting & charging of heavy duty diesel engines | medium & heavy duty brakes  
lighting & instrumentation | body & electrical systems | repair & maintenance**

## Suggested Abilities

- 8th grade English reading, writing, speaking, and listening
- Understand basic algebra
- Lift 30 pounds
- Sustained activity for 8-10 hours at a time

## Prerequisites

- *High School Students: Meet with counselor for eligibility requirements*

## Class Hours

- Morning: 7:50am - 10:40am, Mon. - Fri.
- Afternoon: 12:05pm - 2:55pm, Mon. - Fri.

## SEMESTER 1

### DPM 1000 Intro to Diesel Mechanics

#### 2 credits

Identify and describe diesel-powered vehicles, research maintenance and parts manuals, and select appropriate mechanical fasteners, fuels, and fluids for diesel industry applications.

### DPM 1003 Diesel Engines I

#### 4 credits

Diesel engine theory and operation, focusing on diagnosing and repairing cylinder heads, valve trains, fuel systems, cooling systems, exhaust regen systems, and enables students to test and repair these components.

### DPM 2006 Heavy Duty Brakes I

#### 3 credits

Braking systems in medium & heavy-duty trucks and equipment, including hydraulic brakes, testing components and diagnosis/service of mechanical and electrical components.

### DPM 2007 Heavy Duty Brakes II

#### 3 credits

Service and maintenance of heavy-duty truck air brake systems and pneumatic components, including operational checks, performance testing, and compliance with FMVSS No. 121.

## SEMESTER 2

### **DPM 1026 Heavy Duty Starting & Charging**

#### **3 credits**

Operation, testing, maintenance, diagnosis, load and voltage-drop testing, and repair of heavy-duty vehicle batteries, starters, and charging systems.

### **DPM 2022 H/D Lighting & Instrumentation**

#### **3 credits**

Diagnosis and repair of lighting systems on medium/heavy-duty trucks and equipment, focusing on inspecting and testing electrical circuits, switches, and data-bus interfaces with onboard computers.

### **DPM 2023 H/D Body Electrical Systems**

#### **3 credits**

Theory, operation, diagnosis, and repair of the heavy duty vehicle body and safety electrical systems and accessories.

### **DPM 2080 Internship**

#### **6 credits**

Supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location or school shop, with the direct guidance of the instructor.

### **Diesel Technology Certificate**

1 year

27 Credit Hours



**Information Revised DEC '25.** Information subject to change. Course listings have been paraphrased on this flyer, for full course info please see Pickens Catalog. This certificate is eligible for Financial Aid. If you have further questions, please call (303)344-4910.