

ACADEMY OF TRUCK & DIESEL TECHNOLOGY

Course Sequence

- Introduction to Truck & Diesel Technology
- Intermediate Truck & Diesel Technology
- Advanced Truck & Diesel Technology

COURSE DESCRIPTIONS

INTRODUCTION TO TRUCK AND DIESEL TECHNOLOGY (10 GRADE)

In the first semester the student learns component function and operation of a medium duty inline six cylinder diesel engine through engine disassembly, critical part measurement and inspection, reassembly, and culminating with the starting and running of the engine. The second semester covers truck preventative maintenance tasks as well as exposure to all other technical areas of the vehicle.

INTERMEDIATE TRUCK AND DIESEL TECHNOLOGY (11TH GRADE)

First semester, students learn component function and operation of a medium duty V-8 diesel engine. They completely disassemble, measure critical parts, reassemble, start and run the engine. They learn of the engine electronic control system and the function of each sensor that controls engine performance. They learn how to perform engine diagnostics. In the second semester, they are challenged with more involved lab activities regarding vehicle steering, suspension, and brakes. Summer Internship - qualified students are given an opportunity for real world job experience working in an internship assignment in the local community.

ADVANCED TRUCK AND DIESEL TECHNOLOGY (12 GRADE) During the first semester, the student completes more challenging tasks in areas of transmission and differential overhaul, drive shaft and clutch replacement, engine performance computer based diagnostics, HVAC maintenance, etc. Second Semester, qualified students supplement academic and technical education with an industry "world of work" experience working as a co-op at a participating company which can lead to opportunities for permanent employment.

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