



STEEL CENTER
FOR CAREER AND TECHNICAL EDUCATION

SYLLABUS

Diesel Technology: CIP 47.0613

Mr. Robert Immel

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Program Description: Diesel Technology is a program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Instructional Goals:

- Receive training in order to obtain a PA State Inspection Certification in auto/light truck, heavy truck/trailer and emissions.
- Prepare for a future in the diesel powered industry including medium or heavy duty trucks, tractor or construction equipment.
- Develop the skills necessary to obtain knowledge to perform on and off vehicle repairs needed in the diesel repair industry.

Primary Resources:

Bennett, Sean, Andrew Norman, and Andrew Norman. *Heavy-duty Truck Systems*. Clifton Park, NY: Thomson Delmar Learning, 2006. Print.

Kershaw, John F., and Sean Bennett. *Shop Manual for Medium/Heavy Duty Truck Diesel Engines*. Albany: Delmar Thomson Learning, 2001. Print.

"Medium and Heavy Truck Technical Training | CDX Diesel." *Medium and Heavy Truck Technical Training | CDX Diesel*. Web. 04 Feb. 2016.
<<http://www.cdxauto.com/CDXDieselFeatures>>.

Note: Students will not be assigned "take-home" copies of the course textbook. Under no circumstances are students to remove books from the classroom without permission from the teacher.

Secondary Resources:

"Safety Matters. Don't Leave It to Chance." *S/P2 Safety & Pollution Prevention Training*.
Web. 04 Feb. 2016. <<https://sp2.org/site/>>.

Computer-based application and content-related articles/materials selected upon teacher discretion.

Daily Required Materials/Items:

- All students are to show up on time, ready to learn.
- All students are required to have a pen/pencil and Steel Center notebook.
- All students will be dressed in long work type pants and shirts or coveralls. Dark blue or black in color. No jeans. No loose clothing in the shop. No sagging pants while in the shop or in the classroom. Hats are only to be worn in the shop.

Assessment and Evaluation:

All forms of assessment will be graded using Steel Center's grading system:

93 – 100%	A
85 – 92%	B
77 – 84%	C
70 – 76%	D
< 70%	E/F
Incomplete	I

Measures of Achievement:

Work Ethics (Daily) Grade – this grade accounts for 34% of the student's total nine-week grade. It is based on safety, student behavior, preparation/participation, productivity or time on task, professional appearance and extra effort. The grade range is 0 – 10.

Skills (Task) Grade – this grade accounts for 33% of the student's total nine-week grade. It is comprised of the evaluation and recording of lab activities that students are assigned each marking period. The grade range is 0 – 10.

Knowledge (Test/Assignment) Grade – this grade accounts for 33% of the student's total nine-week grade. This grade will include, but not limited to, homework assignments, written assessments/assignments, presentations, quizzes, tests, mid-term and final exams and research activities.

Assignments/Timeline:

- Quizzes and tests are assigned throughout the year and throughout units to measure understanding. Units include: Orientation and Safety, Tools and Fasteners/Hardware, Suspension and Steering Systems, Preventive Maintenance, Brake Systems, Diesel and Gas Engines, Cooling Systems, and Fuel Systems, Electrical/Electronic Systems and Drive Line.
- Homework may be assigned when necessary.

Other Grading Factors:

- Be respectful, only one person talks at a time
- Be attentive and move safely in the classroom/lab
- Be ready for work by dressing appropriately
- Lock your valuables in your locker
- Electronic devices may only be used with permission from the teacher to take pictures of projects or participate in learning activities
- Respect others personal space

Classroom/Shop Rules:

1. Be **P**rompt
2. Be **P**repared
3. Be **P**olite
4. Be **P**roductive
5. **P**lus, follow school rules

Consequences (in no particular order):

1. Verbal warning and/or points deducted from daily grade
2. Parental contact and point deduction
3. Office referral and point deduction
4. Parent/teacher conference

STEEL CENTER for CTE

DIESEL TECHNOLOGY

MR. IMMEL



SYLLABUS AND PROGRAM RULES

ACKNOWLEDGEMENT SHEET

FOR STUDENT:

With my signature, I acknowledge that I am fully aware of the rules, procedures, and expectations for my CTE program of study. I understand that my signature indicates awareness and not necessarily approval.

Student name: _____

Student signature: _____

Date: _____

FOR PARENT/GUARDIAN:

With my signature, I acknowledge that I am fully aware of the rules, procedures, and expectations for my son's or daughter's CTE program of study. I understand that my signature indicates awareness and not necessarily approval.

Parent/Guardian signature: _____

Parent/Guardian signature: _____

Date: _____

Note: This document shall be filed and maintained by program instructors. Unsigned or unreturned signature sheets are noted and filed accordingly.