

COLLEGE OF ALAMEDA
DIESEL ENGINES I – LAB SECTION
DMECH 21A - Code 42546 – Units: 6
C0-requisite: DMECH 14

Instructor: Scott Albright
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Office Hours: Mon-Thurs 12:30 -1:30pm

Class Meeting Times:

- **Monday & Wednesday** **8:00am – 12:30pm**
- **Tuesday & Thursday** **10:00am – 12:30pm**

Diesel & Truck Mechanic Programs at College of Alameda are designed to:

- Prepare students to enter the job market as beginning heavy-duty diesel mechanics and heavy-duty truck mechanics or apprentices in these fields, and
- Allow students and mechanics to continue their education in this field of study.

How you will be graded:

- Performance Final 30%
- Notebook 20%
- Lab Sheets 20%
- Attendance 10%
- Class Participation 10%
- Tool Box 10%
- **Total** **100%**

GPA's:

- A = 90% and up
- B = 80% - 89%
- C = 70% - 79%
- D = 60% - 69%
- F = 59% and down

Grades:

- No curve grading – Industry standard established by ASE.
- You **can** pass the class with a “D”; however, you **CANNOT** obtain a degree, certificate or Apprenticeship with a cumulative score below 70%.

Attendance:

- Be here. You can't benefit from instruction when you are not here. Attendance will affect your grade.
- Be on time. Begin good habits now. Employers don't like people being late and neither do I. Promptness will affect your grade.

Books Required:

- "Medium/Heavy Duty Truck Engines, Fuel & Computerized Management Systems"
2nd edition, by: Sean Bennett ISBN 1-4018-1499-9

Additional Materials:

- School supplied shop manuals; lab handouts; supplemental informational handouts

Student Supplied Materials:

- 3 Hole notebook with 8.5" x 11" writing paper & subject dividers
- #2 pencils
- Basic hand tool set – see required tool list
- Appropriate work cloths, footwear and safety gear
- Instructor recommends personal or laptop computer for self-study

Special Class Projects:

- Special projects as assigned

Tests:

- Hands-on **Performance Final**
- No written tests

Class Participation:

- Any positive contribution to class is welcome. Class disruption and arguing will not be tolerated. Any challenges and/or issues affecting instruction or positive classroom continuity will be discussed & documented privately with the instructor. Class participation will affect your grade. Carefully review student responsibilities as published by the college.

Parking:

- Adhere to all college parking rules and regulations. **PARKING IS NOT ALLOWED** in the Diesel yard or the driveway. **College Police services issue tickets, regardless of parking areas utilized.**

College of Alameda
DIESEL ENGINES I – LAB SECTION
Assignment/Lecture Overview

- 1) Introduction to the Facility**
- 2) Personal & Safety Awareness**
- 3) Forklifts**
- 4) Overhead Crane & Lifting Equipment**
- 5) Miscellaneous Shop Equipment**
- 6) Safe Hand-tool Usage**
- 6) Truck Engine Component Locations**
- 7) Truck Engine Service Overview**
- 8) Engine Service Manuals/Books & Computers/Online**
- 9) Team & Engine Assignments**
- 10) Engine Teardown**
- 11) Engine Cleaning**
- 12) Engine Inspection/Measurement**