College of Alameda

DIESEL ENGINES I – LECTURE SECTION DMECH 14 – CODE 42540 – Units: 4

Instructor: Scott Albright
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Office Hours: 12:30 – 1:30 M – Th

Class Meeting Times: Tuesday & Thursday 8:00am – 10:00am

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:

Tests	30%	A = 90% and up
Homework	30%	B = 80% - 89%
Notebook	20%	C = 70% - 79%
Attendance	10%	D = 60% - 69%
Class Participation	<u>10%</u>	F = 59% - 01%
-	- 100 %	

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. Negative attendance will affect your grade.
- Be on time. Begin good habits now. Employers will not tolerate people being late and neither do I.
 Tardiness will affect your "class participation" grade.

Homework:

• At the end of each chapter are "review questions." Complete these questions each week for your homework assignments. They vary in number for each chapter. Use complete answers.

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 printed & on CD for personal computer use

Student Supplied Materials:

- Writing paper, 3 holed, lined, 8.5" x 11"
- #2 pencils
- Scantron test sheets
- 3 Hole notebook
- Instructor recommends a laptop computer

Tests:

- Weekly quizzes (Scantron fill-in multiple-choice or hands-on)
- Mid-term exam (Scantron fill-in multiple-choice or presentation)
- Final exam (Scantron fill-in multiple-choice)

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
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 – LECTURE SECTION **Assignment/Lecture Overview**

1)	Introduction to the Trade & History of the Diesel Engine Chapters 1 & 5
2)	Personal & Safety Awareness Chapter 3
3)	Hand & Shop Tools; Precision Tools; Measuring Tools Chapter 2
4)	Units of Measurement; Fasteners Chapter 2
5)	Engine Basics; Power Defined Chapters 4 & 6
6)	Engine Housing Components Chapter 9
7)	Engine Feedback Assembly Chapter 8
8)	Engine Powertrain Components I Chapter 7
9)	Engine Powertrain Components II Chapter 7
10)	Engine Breathing Chapter 12
11)	Engine Lube Systems Chapter 10
12)	Engine Cooling Systems Chapter 11
13)	Engine Removal, Disassembly, Cleaning, Inspection & Reassembly Chapter 14
14)	In-frame Engine Overhaul Instructor hand-outs

15) **Engine Run-in & Performance Testing** Chapter 15