

De Anza College  
AUTOMOTIVE TECHNOLOGY 65W  
Advanced Clean Air Car Course, 2.5 Units  
Level 2  
Green Sheet

Fall, 2014

**Section #** 21263 06:00pm-07:05pm M, W.  
**Instructor:** Michael McCart  
**Office Phone #** 408-864-8376 (during office hours)  
**E-mail** mccartmichael@deanza.edu (best way to communicate)  
**Website:** <http://www.deanza.edu/faculty/mccartmichael/>  
**Class meetings:** September 24– December 12  
**Classroom:** G8  
**Office hours** Instructor's office hours will be 5-6 PM, M, T, W, Th. in E14A or G8.  
**Automotive website** <http://www.deanza.edu/autotech/>

**Requisites:** Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Service Excellence (ASE) Certification A6, A8 & L1.

**Hours:** Two and one-half hours lecture (30 hours total per quarter).

**Student Learning Outcome:** Student will be able to answer correctly, selected questions on the final exam concerning repairs to lower Oxides of Nitrogen (Nox) failures and procedures to perform an acceleration simulation mode (ASM) smog inspection using a dynamometer.

**Important Dates:**

Review the De Anza College web cite

**Final Exam**

**Wednesday December 10, 6:00-10:30pm**

**Disruptive Behavior**

- A. De Anza College will enforce all policies and procedures set forth in the *Standards of Student Conduct* (see catalog). Any student disrupting a class may be asked to leave that class. After administrative review, the instructor may drop the student from the class.
- B. **Repeated cell phone interruptions will not be tolerated. Turn cell phones off during class and keep them in your backpacks.**
- C. There will be no eating, drinks, or chewing tobacco or gum in this classroom.
- D. Smoking in designated areas only.

**Attendance**

**Students will be dropped** after two or more absences.

**IMPORTANT NOTICE**

**NONE OF THE EXAMINATIONS OR THE LABORATORY EVALUATIONS MAY BE MADE UP UNLESS PRIOR AUTHORIZATION IS ARRANGED WITH THE INSTRUCTOR. OTHER LATEWORK WILL BE LOWERED ONE WHOLE GRADE**

Automotive technician training program for California's Inspection and Maintenance Program (I&M Program). This course and Level 1 training meets the Bureau of Automotive Repair (BAR) requirement for obtaining an (EI) Smog inspector License.

### **Student requirement**

Bring yourself to class with your desire to participate.

### **Required equipment**

- A. Computer, with World Wide Web access
- B. Scientific calculator (not your cell phone)
- C. **Safety glasses for classroom lab demonstrations and at all times when in the shops**
- D. Notebook and pencil

### **Advanced clean air**

1. Describe and demonstrate personal, shop, equipment, and vehicle safety practices.
2. Describe the laws, regulations, and procedures associated with consumer authorization of inspections and the overall administration of the Smog Check Program.
3. Describe the standards of practice expected of Smog Check Inspectors.
4. Demonstrate ability to calibrate an emission inspection system.
5. Demonstrate their knowledge, skills and abilities in performing Smog Check emission tests on various vehicle designs.
6. Demonstrate their knowledge, skills and abilities in performing Smog Check visual inspections on various vehicle designs.
7. Describe and demonstrate they have the knowledge, skills and abilities to perform smog check functional tests on various vehicle designs.

### **BAR online Modules**

- Module 1 California Smog Check Program
- Module 2 How to do a California Smog Check Inspection
- Module 3 Using the ECS Application Guide
- Module 9 Referee Network
- Module 6 Aftermarket Parts
- Module 7 Inspection Procedures for Engine Changes
- Module 4 Smog Check Inspection Procedures for OBD II

### **BAR laws**

- Write it Right - A Guide For ARDs
- Laws and Regulations Manual - 2014 Edition

### **BAR Smog check training courses (printed certificate required)**

- Diesel Smog Check Inspection Training
- Fuel Evaporative System Inspection Training
- Smog Check Inspection Video
- Smog Check Inspector Update Version 1.3c
- Visible Smoke Test Training

### **Worksheets**

- Worksheet X1           Laws
- Worksheet V           ASM Testing
- Worksheet IX           OIS testing

**Quizzes are on Wednesday**

Week 4

Week 8

**Tests**

Week 6 Midterm

Week 12 Final

**Grading**

7 Online Modules	7 at 15	105
5 Online training with certificates	5 at 20	100
Worksheets	3 at 20	60
Quizzes 2	2 at 50 points	100
Midterm		110
Performance		10
Final		115
	Total	600

Grade definitions are as follows:

Evaluative Symbols, Percentages and Grade Points

Points	Letter grade	Percentage	Grade points
576-600	A+ Excellent	96-100%	4.0
540-575	A Excellent	90-95.9%	4.0
520-539	A- Excellent	86.6-89.9%	3.7
500-519	B+ Good	83.3-86.5%	3.3
480-499	B Good	80-83.2%	3.0
460-479	B- Good	76.6-79.9%	2.7
440-459	C+ Satisfactory	73.3-76.5%	2.3
420-439	C Satisfactory	70-73.2%	2.0
390-419	D+ Passing, less than satisfactory	65-69.9%	1.3
360-389	D Passing, less than satisfactory	60-64.9%	1.0
340-359	D- Passing, less than satisfactory	56.6-59.9	0.7
Below 339	F Failing	Below 56.6	0.0

\*This schedule is subject to change without notice\* It is intended to be a general guide during the quarter. The schedule and procedures for this course are subject to change at the discretion of the instructor.