

DE ANZA COLLEGE AUTOMOTIVE TECHNOLOGY AT60G

Auto 60G

ADVANCED SCAN TOOL DIAGNOSIS

Winter 2016 4.5 UNITS



General Information:

Instructor: John Walton
Office Number: (408) 864-8508
Email: waltonjohn@fhda.edu
Web site: <http://faculty.deanza.fhda.edu/waltonjohn>
Dates: Monday and Wednesday
Hours: 6:00 P.M. to 10:10 P.M.
Office hours: 5:00 P.M. to 6:00 P.M. Monday-Thursday
Office location: #E14d in E1 Automotive technology building

Advisories:

English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.

Automotive Technology Website at: autotech.deanza.fhda.edu

Course Description

- Advanced drivability diagnosis using a scan tool.
- Using the onboard diagnostic capabilities of vehicles built since 1980.
- Advanced scan data analysis.
- Using PC capabilities to store and analyze diagnostic information.
- Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8 and L1.

Student Learning Outcome: Student will:

- Identify the purpose of an automotive scan tool
- Recognize the various functions of a scan tool
- Calculate a diagnostic approach based on scan data
- Differentiate the status of DTCs (diagnostic trouble codes)
- Evaluate a given set of data for the purpose of diagnostics
- Categorize data values based on specific symptoms

Text and References:

60G ADVANCED SCAN TOOL DIAGNOSIS
Printed Course Syllabus (available from campus bookstore)
All Data, Toyota TIS system.

Required Equipment:

Safety glasses (must be worn at all times during any lab activity)

Grading System:

Graded weekly quizzes, worksheets, participation, & comprehensive final
Highest class score = 100%

Missing Assignments:

The student will complete any missing assignments within 7 days.

Late assignments are subject to 1 grade penalty
2 points will be deducted from **ALL** late assignments.

Final Exam Date:

Final Exam is scheduled for the last night of class from 6PM to 8PM. Cell phone, computer, or tablet use prohibited during exam.
100 question scantron and #2 pencil required

Attendance:

Students will be dropped for exceeding 2 absences.

Adds:

You must add before the current college deadline, late adds are not allowed.

Drops:

If you stop attending the class you will receive an F unless you drop before the current college drop date.

Adding or dropping a class is your responsibility.

A+	97 - 100%
A	94 - 96%
A-	92 - 93%
B+	87 - 91%
B	83 - 86%
B-	80 - 82%
C+	75 - 79%
C	67 - 74%
D+	60 - 66%
D	55 - 59%
D-	50 - 55%
F	0 - 49%

Attendance Policy

Your attendance is an essential part of this course. By enrolling in this class, you are committing to attend promptly. Make-up exams and worksheets will only be available for one week following an absence. If you are going to miss a class or know that you will be late, you must notify me as soon as possible. It is your responsibility to get yourself caught up.

Disruptive Behavior

A. DeAnaza College will enforce all policies and procedures set forth in the *Standards of Student Conduct* (see web site, schedule or catalog). Any student disrupting a class may be asked to leave that class. Disruption includes cell phone usage, text messaging and talking to other students during lecture. After administrative review, student may not be allowed to return to class. <http://www.deanza.edu/specialed/dish/appendix/conducts.html>

B. No cell phone interruptions – turn cell phones off or to vibrate mode during class.

C. No eating, drinking sodas, or chewing tobacco in this classroom.

Disability Support Programs & Services (DSP&S)

If you need any classroom accommodations or services due to a disability, please see me after class. A verification of your disability must be on file with the college. For information on learning disabilities, call or visit the Educational Diagnostic Center, Learning Center West 110, 408-864-8839. For information on others disabilities, call or visit Disability Support Services, Seminar 2A, 408-864-8753.

Register on line or get grades on line at: www.deanza.edu/

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Safety Policy

Safety glasses AND shoes are to be worn at all times during any lab work or demonstration.

- **Financial Aid:** Lisa Mandy: Director (408) 864- 8403 mandylisa@fhda.edu
- **Certificates and degrees:** <http://www.deanza.edu/counseling/pdf/degrees/auto-technician.pdf>
- **Scholarship Information available in financial aid or at**
<http://www.deanza.edu/financialaid/scholarship.html>

Course CRN	00207
Credit Hours	4.5
Last Day for Adds	February 17, 2016
Last Day for Refund	February 16, 2016
Last Day for Drops w/o W	February 17, 2016
Last Day for Drops	March 10, 2016

Suggested Auto Tech Schedule

1st Year Engine Performance			
	Fall Quarter	UNITS	Days
12 weeks	Auto 60 Automotive Electrical Systems	9	M/W
	Winter Quarter		
1st 6 weeks	Auto 60A Electrical Schematic Diagnosis	4.5	M/W
2nd 6 weeks	Auto 60B Automotive Electronics	4.5	M/W
12 weeks	Auto 53A Automotive Mechanisms	3	T/TH
	Spring Quarter		
12 weeks	Auto 60C Automotive Ignition, Fuel, and Emission Systems	9	M/W
First year auto tech courses are available Monday and Wednesday Evenings from 6PM to 10:15PM			
2nd Year Advanced Engine Performance			
	Fall Quarter	UNITS	Days
1st 6 weeks	Auto 60 D Ignition Analysis and Oscilloscope Diagnosis	4.5	T/TH
2nd 6 weeks	Auto 60E Automotive Fuel Injection	4.5	T/TH
	Winter Quarter		
1st 6 weeks	Auto 60F No Start Diagnosis	4.5	T/TH
2nd 6 weeks	Auto 60C Advanced Automotive Scan Tool Diagnosis	4.5	T/TH
	Spring Quarter		
1st 6 weeks	Auto 60H Advanced Drivability and Onboard Diagnosis	4.5	T/TH
2nd 6 weeks	Auto 60J Advanced Lab Scope and Waveform Diagnosis	4.5	T/TH
Second year auto tech courses are available Tuesday and Thursday Evenings from 6PM to 10:15PM			

Degrees and
Certificates

Auto 53A, 60, 60A, & 60B
Certificate of Achievement
**Basic Engine
Performance Technology**
(21 Units, GE not required)

Auto 60C, 60D, & 60E
Certificate of Achievement
**Intermediate Engine
Performance Technology**
(18 units, GE not required)

Auto 60F, 60G, 60H, & 60J
Certificate of Achievement
**Advanced Engine
Performance Technology**
(18 Units GE not required)

Complete all of the 57 units above to receive:
**Certificate of Achievement Advanced
Performance Technology ***
* Math and English Eligibility Requirements

Add: GE (31-42 units) and receive:
A.S. Degree
**Advanced Engine
Performance Technology**

Certificate of Achievement Advanced:
Advanced Engine Performance Technology

Associate of Science Degree:
Advanced Engine Performance Technology