DE ANZA COLLEGE AUTOMOTIVE TECHNOLOGY 60D GREENSHEET

AUTO D060D95 CRN 224

IGNITION ANALYSIS & OSCILLOSCOPE DIAGNOSIS

 General Information:
 Instructor: John Walton

 Office Number: (408) 864-8508

 Email: waltonjohn@fhda.edu

 Web site: http://faculty.deanza.fhda.edu/waltonjohn

 Dates: Tuesday and Thursday

 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

Course Description:

- Ignition system principles of operation and diagnosis
- Use of electronic test equipment in ignition system diagnosis
- Preparation for Automotive Service Excellence (ASE) certification examinations in Areas A6, A8, and L1

Advisories:

Automotive Technology 50A, 50B, 60, 60A, 60B and 60C 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 Website at:<u>autotech.deanza.fhda.edu</u> Course Description:

- Understand major functions of an automotive ignition system
- Ignition system principles of operation and diagnosis.
- Use of electronic test equipment in ignition system diagnosis.
- Develop a practical and comprehensive approach to oscilloscope testing and waveform interpretation
- Troubleshooting ignition related symptoms, systems & components.
- Identify and explain the functions of these components within the ignition system.
- Understand the difference between the primary & secondary system, conventional (DI), distributorless/waste (EI), & coil on plug (COP) ignition.
- Preparation for ASE examinations in areas A6, A8, & L1. ASE web site: <u>http://www.ase.com/</u>

Student Learning Outcomes, Student will;

• Identify the purpose of an automotive ignition system.

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Text and References:	60D IGNITION/OSCILLOSCOPE DIAGNOSIS	B-	80 - 82%									
Text and References.	Printed Course Syllabus (available from campus bookstore)	C+	75 – 79%									
	All Data, Shop Key.	С	67 – 74%									
		D+	60 - 66%									
Required Equipment:	Safety glasses	D	55 – 59%									
Text and References: Required Equipment: <i>Grading System:</i> Final Exam Missing Assignments: Attendance: Adds: Drops:		D-	50 – 55%									
Grading System:	Graded weekly quizzes, worksheets, participation, &	F	0 - 49%									
5 7	comprehensive final, Safe work practices											
	Highest class score = 100%.											
Final Exam	Scheduled for the last class meeting											
Missing Assignments:	The student will complete any missing assignments within 7 days.											
	Late assignments are subject to 1 grade penalty											
Attendance:	Students will be <u>dropped</u> 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.											
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4.5 Units Fall 2015

 A+
 97 - 100%

 A
 94 - 96%

 A 92 - 93%

 B+
 87 - 91%

 B
 83 - 86%

 B 80 - 82%

 C+
 75 - 79%

Attendance Policy

Your attendance is an essential part of this course. <u>By enrolling in this class, you are committing to attend promptly.</u> 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.

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

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. http://www.deanza.edu/specialed/dss/

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.

Safety Policy

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

Course CRN	00224
Credit Hours	4.5
Last Day for Adds	September 23, 2015
Census Date	September 24, 2015
Last Day for Refund	September 22, 2015
Last Day for Drops w/o W	September 23, 2015
Last Day for Drops	October 20, 2015

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

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

Degrees and Certificates Auto 534, 60, 604, & 60B Certificate of Achievement Basic Engine Performance Technology (21 Units, GE not required)					(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 Advanced Engine Performance Technology * * Math and English Eligibility Requirements				Add: GE (31-42 units) and receive: A.S. Degree Advanced Engine Performance Technology				
_		Days	MVW		W/W	M/W	т/тн		WWW				Deys	T/TH	HT/TH		т/тн	T/TH		т/тн	т/тн			/			/	
		UNITS	6		4.5	4.5	3		6	PM			UNITS	4.5	4.5		4.5	4.5		4.5	4.5	PM			7	L		7
Suggested Auto Tech Schedule	1st Year Engine Performance	Fall Quarter	Auto 60 Automotive Electrical Systems	Winter Quarter	d Auto 60A Electrical Schematic Diagnosis	eks Auto 608 Automotive Electronics	Auto 53A Automotive Mechanisms	Spring Quarter	Auto 60C Automotive Ignition, Fuel, and Emission Systems	First year auto tech courses are available Monday and Wednesday Evenings from 6PM to 10:15PM		2nd Year Advanced Engine Performance	Fall Quarter	c Auto 60 D Ignition Analysis and Oscilloscope Diagnosis	els Auto 60E Automotive Fuel Injection	Winter Quarter	d Auto 60F No Start Diagnosis	eks Auto 60G Advanced Automotive Scan Tool Diagnosis	Spring Quarter	a Auto 60H Advanced Drivability and Onboard Diagnosis	eks Auto 601 Advanced Lab Scope and Waveform Disgnosis	Second year auto tech courses are available Tuesday and Thursday Evenings from 6PM to 10:15PM		Certificate of Achievement Advanced: Advanced Engine Performance Technology			Associate of Science Degree: Advanced Engine Performance Technology	
			12 weeks		1st 6 weeks	2nd 6 weeks	12 weeks		12 weeks	First year				1st 6 weeks	2nd 6 weeks		1st 6 weeks	2nd 6 weeks		1st 6 weeks	2nd 6 weeks	Second ye						