

INDUSTRIAL OCCUPATIONS

Tune-Up Mechanic/Electronic Engine Controls/ASE Alternative.....29-05-68

These are advanced courses for certification/recertification of a smog license. We highly recommend completion of a basic or advanced clean air car course and have one year experience in auto electrical, fuel, and ignition systems.

These courses meet the requirements of the State of California Bureau of Auto Repair (B.A.R.) for Automotive Service Excellence (ASE). B.A.R. certified ALTERNATIVE CLASSES in A6-Auto Electrical, A8-Auto Engine Performance and L1-Advanced Engine Performance are offered. Dates are as follows:

A6 Sept. 7-Oct. 7, 2004 **A8** Oct. 12-Nov. 18, 2004 **L1** Nov.23-Jan. 25, 2005

These alternative classes may be taken for A.S.E. alternative RE-NEWAL. Additional costs for textbook and state mandated tests.

Prerequisites: Although there are no prerequisites to enter any of the above classes, these are not entry level courses. Students are recommended to have experience and/or education in basic engine performance and electrical/electronic systems.

Length of Course: 20 weeks (for all three classes). Classes may be taken individually. **Textbook required for each class.**

4720/21/22TTh 6:15 p.m.-9:30 p.m. 20 wks Asher 66 \$35 per class

Automobile Mechanic/Diagnostic (Oscilloscope Testing).....29-06-58

This course upgrades skills in automotive diagnosis using oscilloscopes. It includes instruction in the fundamentals of electrical troubleshooting for computerized engine controls, an introduction to oscilloscopes, use of an oscilloscope for troubleshooting controlled circuits of air/fuel, ignition and emissions, instruction of how to test computerized circuits and devices, and instruction in the function and testing of fuel injection systems.

Prerequisites: Successful completion of a basic tune-up course or employment in the auto service field.

Length of Course: 20 weeks. (Class is held every other Wednesday).

4723 W 6:15 p.m.- 9:30 p.m. 20 wks Wilhelm 66 \$60

Front-End Mechanic/Suspension, Steering, and Brakes (Upgrade).....29-06-85

This course upgrades skills in suspension, steering, and brakes. Contains sections on hydraulic system, drum brake systems, disc brake systems, brake assist systems, front suspensions, alignment and antilock brake system diagnosis. Preparation for State Brake License and National Automotive Service Excellence (ASE) testing. This course meets NATEF standards and list of high priority tasks.

Prerequisites: A basic knowledge of auto mechanics.

Length of Course: One semester

4724 MW 6:15 p.m.- 9:30 p.m. 20 wks Cawelti 63 \$60



Upholstery

Upholsterer/Furniture and Auto(Pre-Employment).....29-55-71

Prepares students for entry-level employment as aircraft, auto, and boat upholsterers. Course includes instruction in use of sewing machines, upholstering seat covers, layout headliners, carpeting, side panels, dashes, plus design and fabrication for advanced students.

Length of Course: Two semesters.

4725 M-F 8:00 a.m.-3:00 p.m. 20 wks Jackson 67 \$70

Upholsterer/Fundamentals.....29-56-70

Prepares students to use tools, equipment, materials, construction methods and techniques of upholstery and to learn basic power sewing.

Length of Course: 20 weeks.

4726 TTh 6:15 p.m.- 9:30 p.m. 20 wks Jackson 67 \$60

4727 Sat 8:00 a.m.-12:15 p.m. 20 wks Jackson 67 \$60

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Building Contractor Operations

Contractor/License Preparation/Law and Trade Review.....29-62-62

This course provides instruction in California State Contractor's License Laws and Trade Review. Law modules cover safety, payroll accounting practices, bookkeeping methods, business management, employee relations, and estimating.

Prerequisites: For State Contractor License: Four years of documented trade experience within the last 10 years in the area for which the student wishes to be licensed (a college degree fulfills some of the required experience). Contractors, builders, lawyers, and home owners are also welcomed for the knowledge.

Length of Course: 20 weeks.

4728 MW 6:15 p.m.-9:30 p.m. 20 wks Huberman 23 \$60

4729 TTh 6:15 p.m.-9:30 p.m. 20 wks Huberman 23 \$60

Construction Inspector/Introduction.....29-62-58

This course is designed to give students a basic working knowledge of construction and the ability to interpret and use the Uniform Building Code as a reference. It prepares students for certification as Building Inspectors. The Uniform Building Code will be emphasized.

Prerequisites: Experience in building trades or completion of Construction Worker/Construction and Remodel (29-57-71) and Construction Worker/Fundamentals (29-57-72) is desirable.

Length of Course: 20 weeks.

4730 Sat 8:00 a.m.-12:15 p.m. 20 wks Huberman 23 \$60



Commercial Pool Maintenance

(Classes begin Sept. 7 and Nov. 8, 2004).

Swimming Pool Servicer (Basic).....29-30-62

This course prepares beginners in basic pool service fundamentals. Students who are enrolled in the program will participate not only in the theory of swimming pool service fundamentals, but will also be involved in a hands-on program. This program will consist of instruction in pool chemistry, the functions and servicing of the filtering system, in addition to the proper use and care of pool cleaning tools.

The hands on portion of this program will be held at the swimming pool area of Pierce College.

Length of Course: 10 weeks.

4731/32 TTh 6:15 p.m.-9:30 p.m. 10 wks Tucker 34 \$40

Swimming Pool Servicer (Advanced).....29-30-60

This course prepares trainees in the servicing of swimming pools in L.A. County. Provides instruction in code requirements dealing with health and sanitation, pool chemistry, filtration systems, troubleshooting, and minor repairs of plumbing and heating systems. Recommended for students employed in the industry.

Prerequisites: Completion of Basic Swimming Pool Servicer.

Length of Course: 10 weeks.

4733/34 MW 6:15 p.m.-9:30 p.m. 10 wks Tucker 34 \$40



Drafting

Design Technician/CAD ≠29-22-69 Earn 9 units of Pierce College credit

DRAFTING (Certified Drafting Technician): This course develops essential CAD 2D/3D drafting skills in seven modules. First semester students will develop a portfolio. Students will work with AutoCAD 2004, ArchiCAD 8.1 or SolidWorks 2004. Semester 1 covers basic and intermediate CAD skills. The lab operates in a networked environment with printed and online materials.

ARCHITECTURAL: In the first semester, students will learn conventional drafting techniques and standards to develop architectural drawings for structures and buildings. Modules 1-5 include 2D CAD basics, computer basics and employment preparation for architectural and related fields. Upon completion, students will receive an "Architectural/DT CAD Fundamentals" certificate. (TTh lecture, MWF lab time)

MECHANICAL: In the first semester, students will learn conventional drafting techniques and standards to develop mechanical drawings for parts and assemblies. Modules 1-5 include 2D CAD basics, computer basics and employment preparation for mechanical and related fields.

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