

Laney College
Vocational Training Department

Course Name: Residential House Wiring

Course Number: Electricity 217

Class Meeting Days/Times: Monday and Wednesday, 7:30 p.m. to 9:50 p.m.

Room: B-120 & B-130

Phone: 510-464-3283 office

E-mail: stweldon@peralta.edu

Office Hours: Wednesday's 11:00am - 3:30 pm

Recommended Preparation: Basic Electricity, Algebra

Course Description: Theory and lab on Residential house wiring. Learn hands-on Romex (new house wiring & remodeling), box and fitting installation, wire splicing, and meter/service installation. Learn basic switching and receptacle circuits using 120-volt power in the lab. Branch circuits, power distribution, and electrical metering and main service. Learn about old Knob & Tube. Learn how design, estimate, and price basic residential work. Learn to change-out existing and install new main electrical services. Begin learning the National Electrical Code and how it is applied to everyday residential electrical installations. Provide information on State of California Licensing, Trainee Program, and preparation for apprenticeship testing and interviews. **Reading-homework with end-of-chapter questions turned in nightly!!! Every night is important!!!**

Student Outcomes:

1. Describe the basic concepts of electricity and residential circuits.
2. Demonstrate hands-on skills for installing typical residential wiring.
3. Demonstrate safe use of electrical tools and instruments for proper troubleshooting procedures.

Textbook: Rockis, Rockis, and Proctor. Residential Wiring, 2006.

Homewood, Illinois: **American technical Publishers, Inc.**

ISBN 0-8269-1654-6

You must have the book by the second Wednesday night class!!

Required Supplies: 8 ½" x 11" spiral-bound notebook and writing implement.

Required Tools: Straight blade screwdriver, "lineman's pliers", wire stripper for #14, 12, &10 AWG, 16-oz. Claw hammer, razor knife, & inexpensive tester.

Grading Policy: Quizzes (10%)

Class participation (10%)

Hands-on performance assessments (30%)

Final exam (30%)

End of semester turned-in notebook (20%) }= **Course Grade**

Attendance Policy: Students absent four class days **will have their overall course grade reduced one grade level.** Class begins promptly on the hour and instruction will be given only once. **The student must sign-in, (print) last name first, first name last and, roll call will be taken @ 7:35pm.**

Withdrawal: It is the responsibility of the student to withdraw (drop) from a class to receive a course-only not on book or tools) refund. A student who quits attending after the designated period will receive a letter letter grade (an "F") on their permanent record.

Attend every class session. Buy the tools. Read the book assignments before coming to class. Answer and hand in the required end of chapter questions. Be prepared to discuss the information and actively participate. Class starts on August 24, Class ends December 16. We want you to get a better job in the electrical industry and make more money!!!