

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Electrical Technology</u>
COURSE RUBRIC AND NUMBER	<u>ELPT 1321</u>
COURSE TITLE	<u>Introduction to Electrical Safety and Tools</u>
COURSE CREDIT HOURS	<u>3 3 :</u> Credits Lec Lab

I. Catalog Description

Provides a comprehensive overview of safety rules and regulations. Includes the selection, inspection, use, and maintenance of common tools for electricians. Emphasizes OSHA and NEC code compliance. **(3:1). Lab fee.**

II. Course Objectives

A. Upon satisfactory completion of this course, the student will be able to

1. Comply with Occupational Safety and Health Administration Standards (OSHA).
2. Obtain OSHA 30 Construction certification.
3. Utilize Personal Protective Equipment (PPE) appropriately.
4. Introduction to the National Fire Protection Association (NFPA) 70E.
5. Comply with safety precautions (e.g. call before you dig).
6. Recognize safety hazards, practice eye and hearing safety.
7. Utilize safe procedures when using step and extension ladders on the job site.
8. Safely operate and maintain the hand and power tools common to electrical work.
9. Introduction to electrical metering equipment (e.g. multimeter, polarity tester).
10. Navigate the National Electrical Code (NEC), definitions and trade terminology.
11. Introduction to Ohm's Law.
12. Apply grounding principles.
13. Identify Service conductors, Feeders and Branch circuits.
14. Distinguish conductors with color coding.
15. Treat others with respect and display effective customer service.
16. Follow organizational rules and regulations, practice safety awareness.
17. Demonstrate the self-confidence to ask questions, identify work limitations.
18. Practice personal time management, document on the job training hours and duties.
19. Maintain a safe and clean jobsite.
20. Introduction to CPR and First Aid procedures.
21. Locate Safety Data Sheet (SDS).
22. Practice safety awareness with heavy machinery and equipment.

III. THECB Learning Outcomes (WECM)

1. Explain electrical hazards and how to avoid them in the workplace.
2. Discuss safety issues concerning lockout/tagout procedures.

3. Demonstrate safe work habits using common hand and power tools for electricians.

IV. Evaluation

The knowledge and skills stated in the objectives must be demonstrated by the students in the form of tests and assignments in order to complete the course. Letter grades will be determined as follows:

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Students should be able to compute their grade average anytime during the course. Missed assignments and make-up tests will be given at the discretion of the instructor.

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.