

**SOUTH PLAINS COLLEGE
COURSE SYLLABUS**

**Lubbock Technology Center
Spring 2024**

COURSE TITLE: **ELTN 1343** **ELECTRICAL TROUBLESHOOTING**

INSTRUCTOR: Diana Malone

OFFICE LOCATION LBC 125K

PHONE/E-MAIL: dmalone@southplainscollege.edu 806-716-2424

OFFICE HOURS: As posted

Course Description: This course offers students instruction in the maintenance, operation, troubleshooting, and repair of circuits of various residential, commercial, and industrial electrical systems.

Course Learning Outcomes: The goals/objectives of this course are:
The student will use multimeters to perform tests on electrical equipment;
Discuss various types of circuits and electrical systems;
Demonstrate the proper way to test transformers and motors;
Identify a short circuit, open circuit, and a closed circuit; and
Troubleshoot electric motors and control circuits.

Course Competencies: Upon successful completion of this course, each student will have demonstrated through comprehensive examinations, with a score of 70% or better, a competent understanding of:

Motor and transformer testing
Short circuit identification
Circuit types

Academic Integrity: The attempt of any student to present as his or her own work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. If you have a question as to whether you may work with other students on any assignment, ASK YOUR INSTRUCTOR.

Assignment Policy: All required work must be turned in on time in order that the student may benefit from the corrections and study for future examinations. Assigned outside work is DUE ON THE CLASS PERIOD ASSIGNED. The instructor has sole discretion as to whether late work is acceptable.

Attendance Policy: **Students are expected to attend all classes in order to be successful in a course.** The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus. **Students with four (4) or more absences MUST contact their instructor.**

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor.

Students with illness related or other absences must communicate with the instructor for those absences to be excused.

and the student will owe any balance resulting from the adjustment.

SPECIFIC COURSE/INSTRUCTOR REQUIREMENTS: Textbook and Other Materials:

Second Edition Electricians Guide to AC Motor Controls

Publisher: Coxco: 1-800-257-0941

www.coxco.net

Author: Richard A. Cox

American Technical Publishers Technician Tool Set
ISBN: 978-0-8269-9991-7

Grading Policy/Procedure: Grades will be determined by averaging scores from two categories.

- *Major Exams
- **Daily Attendance

*Make-up tests may be administered at the discretion of the instructor; students are expected to be present and prepared for all announced examinations.

**Attendance is taken daily and accrues three points per class attendance. A total of 100 points is possible.

Special Requirements: Safety Policy. Students should adhere to safety standards established in the SPC Student Handbook. Electrical energy can be potentially lethal. **Students will adhere to the safety policies set forth by the instructor to avoid any electrical contact.** Further, chemical hazards and appropriate MSDS safety practices will be covered by the instructor during the first class session if potential for exposure exists.

Statements: Statements can be found at this site which include:

Disabilities statement

Non-discrimination statement

CARE (Campus Assessment, Response, and Evaluation) statement

Intellectual exchange statement

Concealed carry statement

<https://www.southplainscollege.edu/syllabusstatements/>