

Trouble Shooting Distribution Systems(LNWK 2324)

CREDIT

3 Semester Credit Hours (3 hour lecture, 0 hours lab)

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

ELPT 2323

COURSE DESCRIPTION

Study of power outages and voltage complaints on distribution systems. Includes lockout-tagout procedures, safety grounds, backfeed, induced voltage, causes of outages, and analyzing voltage complaints.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

Describe causes of power outages; illustrate lockout-tagout procedures; and describe step and touch potentials. Describe backfeed and induced voltages; and calculate service size from customer load. Explain causes of power outages and voltage problems; explain grounding procedures; and all relevant safety rules and procedures.

INSTRUCTOR CONTACT INFORMATION

Instructor: Clayton Spoon

Email: cwspoon@lit.edu

Office Phone: 409-386-0225

Office Location: 1355 MLK Silsbee, TX 77656

Office Hours: Monday – Friday, 7:30 – 8:00 AM, 12:00 – 1:00 PM

REQUIRED TEXTBOOK AND MATERIALS

Lineman's and Cable man's Handbook (Thirteenth Edition) by Thomas M. Shoemaker, James E. Mack

ATTENDANCE POLICY

- Class attendance is important to obtain the educational objectives of this course. Regular attendance and being on time for classes will have a positive effect on your academics and employment opportunities.
- **Two absences** will result 1 letter grade drop, **three absences** drop 2 letter grades.

Approved: CS/1-23-23



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- Four absences result in an F for the semester.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

COURSE CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Week 1	Power Outages	Week 4	
Week 2	Power Outages	Week 5	
	Power Outages HMWK		Week 5
Week 6	Grounding	Week 9	
	Grounding HMWK	Week 9	
Week 10	Switching	Week 12	
	Switching HMWK		Week 12
Week 13	Conducts	Week 13	
Week 14	Customer Complaints	Week 16	
	Customer Complaints HMWK		Week 16

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

<i>Activity</i>	<i>Percentage</i>
Grounding Exam	15%
Trouble Shooting Exam	25%
Grounding Application	20%
Repairing brakes	20%
Daily Grades	20%
Total	100%

Grade Points will be awarded in accordance with the college catalog. Assignments are due on the due date assigned. Late assignments are not accepted.

GRADE SCALE

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

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard

or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

1. No food, drinks in class.
2. Daily lab grades cannot be made up.
3. No make ups for Lab tests.
4. Any written test retake has an 80 points as the maximum grade.
5. LIT is a tobacco free campus- no tobacco products allowed
6. Students must follow safety rules and procedures at all times. Failure to follow safety rules will require disciplinary action not limited to expulsion from LIT.
7. Students must have and wear all required clothing including climbing boots at all times, and have PPE and tools for participation in class and Lab.
8. Turn off all Cell Phones during class, lab and when on the field. Ear buds and smart watches are to be put away during class, lab and when on the field. Unauthorized cell phone, ear bud, and/or smart watch use will result in a 0 for the daily grade.
9. Do not bring children to class.
10. Cheating of any kind will not be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result from expulsion from LIT.
11. Internet Usage
 - a. Classroom computers have access to the internet.
 - b. Student usage of the internet will be monitored.
 - c. Proper usage of the internet will be allowed. Used for classroom research or as directed.
 - d. Any unauthorized use of the internet will not be tolerated.
 - e. Improper usage of the internet, such as profanity, pornography, gambling, etc... will result in disciplinary action not limited to expulsion from LIT.
12. Horseplay and fighting will not be tolerated. Participating in horseplay and/or fighting will require disciplinary action not limited to expulsion from LIT.