Climbing Skills (LNWK 1311)

Credit: 3 semester credit hours (1 hour lecture, 6 hours lab)

Prerequisite/Co-requisite: None

Course Description

Theory and application of pole climbing. Includes safety, climbing techniques, tool inspection, poles inspection, personal protective equipment, and fall protection.

Required Textbook and Materials

1. Electrical Essentials For Powerline Workers, Wayne Van Soelen
2. OSHA handouts
3. Handout literature

Course Objectives

Recognize hazards on and around pole; practice required safety; and inspect and use personal protective equipment and climbing equipment. Inspect and test wood poles; demonstrate proper climbing technique; and perform effective climbing skills without the aid of fall arrest.

A. The student will practice required safety.

B. The student will learn to inspect and use personal protective equipment and climbing equipment.

C. The student will perform effective climbing skills without the aid of fall arrest.

D. The student will properly inspect and test wood poles.

E. The student will recognize hazards on and around the poles.

F. The student will demonstrate proper climbing technique.

G. The student will climb 40 foot poles without aid of fall arrest equipment.

Course Outline

I. Issue Climbing Gear
- A. Hooks
- B. Belt
- C. Pole strap

II. Safety
- A. OSHA standards
- B. Personal Protective Equipment

III. Equipment
- A. Proper storage
- B. Maintenance

IV. Inspecting Poles
- A. Visual
- B. Physical test

V. Climbing practice
- A. Proper climbing technique
- B. Reaching and positioning

VI. Climbing Qualification
- A. Climb 40’ pole using fall arrest
- B. Free climb 40’ poles

VII. Crossarm Installations
- A. Rig crossarm
- B. Properly install crossarm on

20’ pole
C. Install line equipment
D. Install double crossarms

A. Emergency procedure
B. Rigging
C. Perform rescue

VIII. Pole Top Rescue

Grade Scale

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

Course Evaluation

Final grades will be calculated according to the following criteria:

Activity	***Percentage***
Written Climbing Exam	10%
Climbing Practical	25%
Single Crossarm Practical	10%
Double Crossarm Practical	15%
Pole Top Rescue Exam	10%
Pole Top Rescue Practical	15%
Daily grades	15%
Total	***100%***

Grade points will be awarded in accordance with the college catalog.

A. Assignments are due on the due date assigned. Late assignments are not accepted.
B. Tests must be taken on the announced date.

Course Requirements

1. Inspect and maintain climbing gear
2. Follow all safety rules and safety procedures
3. Inspect and test poles
4. Meet necessary qualifications for climbing 40’ poles
5. Demonstrate proficiency in climbing and positioning on wood poles
6. Demonstrate proficiency in installing crossarms.
7. Demonstrate proficiency in pole rescue procedures

Attendance Policy

1. Class attendance is important to obtain the educational objectives of this course. Prospective employers may also review your attendance records. Regular

attendance and being on time for classes will have a positive effect on your academics and employment opportunities.

2. Two absences will result 1 letter grade drop, three absences drop 2 letter grades.
3. **Four absences result in an F for the semester**.

Course Policies

1. No food or 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 point maximum grade.
5. LIT is a tobacco free campus- no tobacco products allowed
6. 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***.
7. 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.
8. **Turn off all Cell Phones during class, Labs and when on the field.** Unauthorized cell phone use will result in a 0 for the daily grade.
9. Do not bring children to class.
10. No Cheating of any kind will 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. If you wish to drop a course, the student is 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.
12. 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.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an

accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the online resource:
http://www.lit.edu/depts/stuserv/special/defaults.aspx

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 or obtained in print upon request at the Student Services Office.

Course Schedule

Week	Topic	Reference
1	Course introduction and policies • Lecture • Lab: Tool inspection, use, storage	Handouts
2	Pole climbing • Lecture • Lab: Climbing technique, pole inspection	Handouts
3/4/5	Pole climbing • Lecture • Lab: Climbing practice	Handouts
6	Pole climbing • Lecture • Lab: climbing practice	Handouts
7/8/9	Pole climbing • Lecture • Lab: Climbing technique, 40' pole	Handouts
10/11/12	Pole climbing • Lecture • Lab: Climbing, positioning, crossarm install	Handouts
13/14	Pole climbing • Lecture • Lab: Climbing, positioning, installing hardware	Handouts
15/16	Pole Rescue • Lecture • Lab: Rescue procedure	Handouts

Contact Information:

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