Climbing Skills (LWK 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
Course Syllabus

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

VIII. Pole Top Rescue

A. Emergency procedure
B. Rigging
C. Perform rescue

Grade Scale

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100</td>
<td>A</td>
</tr>
<tr>
<td>80 – 89</td>
<td>B</td>
</tr>
<tr>
<td>70 – 79</td>
<td>C</td>
</tr>
<tr>
<td>60 – 69</td>
<td>D</td>
</tr>
<tr>
<td>0 – 59</td>
<td>F</td>
</tr>
</tbody>
</table>

Course Evaluation

Final grades will be calculated according to the following criteria:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Climbing Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Climbing Practical</td>
<td>25%</td>
</tr>
<tr>
<td>Single Crossarm Practical</td>
<td>10%</td>
</tr>
<tr>
<td>Double Crossarm Practical</td>
<td>15%</td>
</tr>
<tr>
<td>Pole Top Rescue Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Pole Top Rescue Practical</td>
<td>15%</td>
</tr>
<tr>
<td>Daily grades</td>
<td>15%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

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
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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](http://www.lit.edu) or obtained in print upon request at the Student Services Office.

### Course Schedule

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

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Cell: (409) 656-1644
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Office Hours: 7:30-8:00 AM, 12:00-1:00PM