

LNWK 1370
Rigging for Electrical Lineworker
Western Texas College

I. Basic Course Information

- A. Course Description: Introduction to rigging and hoisting in the line industry. Includes selecting proper rigging equipment, rope knots, splices, slings and hitches.
- B. Prerequisites: None

II. Student Learning Outcomes

- A. Describe “rigging” as it pertains to linework and explain the three elements of safe rigging practices
- B. Describe the classifications of fiber rope used in overhead rigging and how to determine the safe working load if a specific type of fiber rope
- C. Demonstrate how to coil a rope and secure it for storage
- D. Demonstrate the proper way to tie a slip, square, half-hitch, and bowline knot
- E. Describe the purpose of a handline and demonstrate the installation and use of a handline
- F. Describe a typical block and tackle arrangement and how it is used
- G. Demonstrate the use of a typical block and tackle rigging arrangement to lift a transformer into place on a wooden pole
- H. Determine the weight of a utility pole using pole weight chart tables
- I. Identify minimum approach distances when doing work around energized lines and equipment
- J. Prepare a job plan for replacing a transformer on a wooden pole
- K. Demonstrate proper rigging techniques

III. Online Testing Requirements

- A. The midterm and final exam must be proctored by an approved testing organization. (Ask your instructor for more details.)
- B. Students are not allowed to use their book or notes of any kind while taking their proctored tests and exams.

IV. Major Course Requirements: The grade for this course will be determined as follows:

- A. Exams: 25%
- B. Quizzes/Daily Assignments: 25%
- C. Participation: 25%
- D. Attendance: 25%
- E. Grading scale:

- A= (90-100%)
- B= (80-89%)
- C= (70-79%)
- D= (60-69%)

V. Information on Books and Other Course Materials

- A. The Program utilizes T & D Power Skills' Lineworker Apprentice Training Program.
- B. Lineman gear and all training materials are provided to students.

VI. Other Policies, Procedures and important dates: Please refer to the WTC Course Catalog for the following:

- A. Campus Calendar
- B. Final exam schedule
- C. How to drop a class
- D. Withdrawal information
- E. Student Conduct/Academic Integrity
- F. Class Attendance
- G. Students with disabilities

VII. Course Sequence & Content

Week	Topic
Week 1	Introduction to course. Discuss class syllabus, learning objectives, and classroom expectations.
Week 2	Introduction to Rigging Quiz 1
Week 3	Fiber Rope Quiz 2
Week 4	Knots and Knot Tying Quiz 3
Week 5	Handlines Quiz 4
Week 6	Block and Tackle Quiz 5
Week 7	Rigging on the Job Quiz 6
Week 8	Exam 1
Week 9	Rigging Safety Quiz 7

Week 10	Structural Safety Quiz 8
Week11	Transformer Rigging Quiz 9
Week 12	Rigging a Running Corner Quiz 10
Week 13	Cross Arm Change-Out Quiz 11
Week 14	Transferring Secondary Lines Quiz 12
Week 15	Course Review
Week 16	Final Exam

Disclaimer: Sequence & Content is subject to change at the instructor's discretion.