

# ELECTRIC LINEWORKER (ELCL)

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## Courses

### ELCL 125 Job Training and Safety 4 Credits

Job training and safety skills, including CDL, basic use and care of personal protective equipment and climbing equipment, daily job briefings, daily inspection of motorized equipment, and knot tying.

**Terms Typically Offered:** Fall.

**Fees:** Yes.

### ELCL 131 Electrical Distribution Theory I 4 Credits

Electrical theory, powerline equations, pole setting techniques, procedures for sagging and splicing of conductors, energized and de-energized line work, and installation of protective grounds.

**Terms Typically Offered:** Fall.

### ELCL 131L Electric Distribution Lab 4 Credits

Examination of the National Electric Safety Code, equipment operation, material records, knot tying, installation of protective grounds, pole climbing, replace insulators, replacing crossarms, conductor ties, and overhead line construction.

**Fees:** Yes.

### ELCL 132 Electrical Distribution Theory II 4 Credits

Installation and operation of protective equipment, transformer hookups, voltage regulation, hotstick maintenance, troubleshooting, and outage restoration.

**Prerequisites:** ELCL 131.

**Corequisites:** ELCL 132L.

**Terms Typically Offered:** Spring.

### ELCL 132L Electrical Distribution Theory II Laboratory 4 Credits

Installation and operation of protective equipment, transformer hookups, voltage regulation, hotstick maintenance, troubleshooting, and gloving from the pole and underground distribution.

**Prerequisites:** ELCL 131.

**Corequisites:** ELCL 132.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### ELCL 137 Advanced Electrical Distribution 2 Credits

Meter safety, connector installation, street lighting, rubber cover up, and public relations. Two hours lecture, eight hours laboratory per week.

**Corequisites:** ELCL 137L.

### ELCL 137L Advanced Electrical Distribution Laboratory 4 Credits

Examination of meter safety, connector installation, street lighting, rubber cover up, and public relations.

**Prerequisites:** ELCL 125.

**Corequisites:** ELCL 137.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### ELCL 140 Underground Procedures 4 Credits

Examination of safety practices, terminology, fault finding, cable locating, switching procedure, installation of terminal devices, splicing, and transformer application.

**Corequisites:** ELCL 132L.

**Terms Typically Offered:** Spring.

### ELCL 145 Hotline Procedures 1 Credit

Two weeks of training aided by outside specialists covering current hotline maintenance and underground installation methods.

**Corequisites:** ELCL 145L.

**Terms Typically Offered:** Spring.

### ELCL 145L Hotline Procedures Laboratory 2 Credits

Two weeks of training aided by outside specialists covering current hotline maintenance and underground installation methods.

**Corequisites:** ELCL 145.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### ELCL 195 Independent Study 1 or 2 Credits

Course may be taken multiple times up to maximum of 6 credit hours.

### ELCL 196 Topics 1 or 2 Credits

Course may be taken multiple times up to maximum of 15 credit hours.

### ELCL 199 Internship 6 Credits

Opportunity for an individual to be employed for training by a utility company while maintaining his/her status as a Colorado Mesa University student. Provides excellent on-the-job training benefits. Students usually selected for this course by formal interview.

**Prerequisites:** Permission of instructor. Eighteen hours per week, two semesters after completion of regular program.

Course may be taken multiple times up to maximum of 6 credit hours.