



**2015-2016 PETITION/PROGRAM SHEET**  
**Award: Technical Certificate**  
**Program of Study: Electric Line worker**

**About This Certificate . . .**

This program covers all areas of training required to work with electric lines, including: basic skills in studies of electricity, math, fundamentals of line work, transformer connections, and underground installation. In addition to training at the field location, all students are encouraged to obtain a Red Cross First Aid and a CPR card as a requirement for employment. With this certificate, students will be prepared for entry-level positions as electric line mechanics, electric line workers, or power line workers.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/wccc/programs.html>.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a Ground man or an Apprentice Lineman for the electrical industry. (Communication Fluency)
2. Apply mathematical concepts to perform electrical formula calculations used for finding voltages, amperes, resistance, and power. (Quantitative Fluency)
3. Evaluate the situation, and determine which Standard Operating Procedure (SOP) to apply material to perform the job in a safe and timely manner. (Applied Learning)
4. Describe the scope and application of principle features of an electric line worker, including core practices required by electrical industry. (Critical Thinking)
5. Demonstrate familiarity with Standard Operating Procedures regarding climbing structures, replacing associated equipment, pole setting procedures, and soil recognition for underground applications. Perform all required safety procedures. (Specialized Knowledge)
6. Evaluate company policies, and perform in a manner that is consistent to Federal and State laws. (Specialized Knowledge)
7. Perform as a member of a crew in an ethical manner consistent with public, and company policy. (Applied Learning)

**NAME:** \_\_\_\_\_ **STUDENT ID #:** \_\_\_\_\_

**LOCAL ADDRESS AND PHONE NUMBER:** \_\_\_\_\_

\_\_\_\_\_ ( ) \_\_\_\_\_

I, (Signature) \_\_\_\_\_, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

\_\_\_\_\_  
Signature of Advisor

\_\_\_\_\_  
Date

20\_\_

\_\_\_\_\_  
Signature of the Department Head

\_\_\_\_\_  
Date

20\_\_

\_\_\_\_\_  
Signature of Registrar

\_\_\_\_\_  
Date

20\_\_

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

**DEGREE REQUIREMENTS:**

- 2.00 cumulative GPA or higher in all CMU coursework.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student’s responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student’s faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See the “Undergraduate Graduation Requirements” in the catalog for additional graduation information.

**TECHNICAL CERTIFICATE: ELECTRIC LINEWORKER**

(38 semester hours)

Course No	Title	Sem.hrs	Grade	Term/Trns
MATH 107	Career Mathematics	3	_____	_____
ELCL 120	Fundamentals of Electricity	4	_____	_____
ELCL 125	Job Training and Safety	2	_____	_____
ELCL 131	Electrical Distribution Theory I	4	_____	_____
ELCL 131L	Electrical Distribution Theory I Lab	4	_____	_____
ELCL 132	Electrical Distribution Theory II4	_____	_____	_____

Course No	Title	Sem.hrs	Grade	Term/Trns
ELCL 132L	Electrical Distribution Theory II Lab	2	_____	_____
ELCL 137	Advanced Electrical Distribution	2	_____	_____
ELCL 137L	Advanced Electrical Distribution Lab	4	_____	_____
ELCL 140	Underground Procedure	4	_____	_____
ELCL 140L	Underground Procedure Lab	2	_____	_____
ELCL 145	Hotline Procedures	1	_____	_____
ELCL 145L	Hotline Procedures Lab	2	_____	_____

**SUGGESTED COURSE SEQUENCING FOR THE TECHNICAL CERTIFICATE WITH A SPECIALIZATION IN ELECTRIC LINEWORKER**

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student’s responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

<b><u>First Semester</u></b>			<b><u>Hours</u></b>	<b><u>Second Semester</u></b>			<b><u>Hours</u></b>
MATH 107	Career Mathematics	3		ELCL 132	Electrical Distribution Theory II	4	
ELCL 120	Fundamentals of Electricity	4		ELCL 132L	Electrical Distribution Theory II Lab	2	
ELCL 125	Job Training and Safety	2		ELCL 137	Advanced Electrical Distribution	2	
ELCL 131	Electrical Distribution Theory I	4		ELCL 137L	Advanced Electrical Distribution Lab	4	
ELCL 131L	Electric Distribution Laboratory	4		ELCL 140	Underground Procedures	4	
*	Standard First Aid/CPR	==		ELCL 140L	Underground Procedures Lab	2	
		17		ELCL 145	Hotline Procedures	1	
				ELCL 145L	Hotline Procedures Lab	2	
							21

**\*Special Requirements and Recommendations:**

a. Students will be encouraged to have current First Aid and CPR certification before they successfully complete the requirements of this program. This may be achieved by any of the following: (1) holding current cards; (2) obtaining American Red Cross “Standard” or “Advanced” rating and American Heart Association or equivalent certification, or (3) successfully completing KINE 265 offered by Colorado Mesa University.

c. Additional expenses – Students will be required to purchase or have approximately \$1000.00 in tools and personal equipment. This does not include required textbooks or an adequate pair of work boots. These costs may vary with student needs and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

## **POLICIES:**

1. Please see the catalog for a complete list of graduation requirements.
2. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.** You must turn in your “Intent to Graduate” form to the Registrar’s Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar’s Office. (Students cannot handle the forms once the advisor signs.)
4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
5. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).
6. NOTE: Students should consult the Financial Aid Office for eligibility requirements for undergraduate and graduate certificates.