

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Electrical Utility/Lineworker  
Certificate of Achievement

Curriculum Code: 1468 (Effective Fall 2011 – Summer 2012)

Lineworkers install and service power lines and power line connections between electrical power plants and the customers using the electricity. These lines may be above ground on utility poles or underground. This curriculum prepares students to enter the Lineworker's Apprenticeship Program with Consumers Energy. Department approval is required to enroll in ELTE 270, ELTE 272, ELTE 274 and ELTE 276 which are held onsite at the Consumers Energy Training Facility in Marshall, Michigan. Interested students should contact the Utility and Energy Systems program at Lansing Community College for information.

### PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

### INFORMATION

**To be considered officially enrolled in this certificate of achievement, students must have an application on file and been given department approval.** Contact the Utility and Energy Systems Program, West Campus Building, Room M127, telephone number (517) 483-1570 (Website: [www.lcc.edu/utility/electrical/](http://www.lcc.edu/utility/electrical/)) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

### REQUIREMENTS

CODE	TITLE	TOTAL: 33 CREDITS CREDIT HOURS
ELTA 120	AC Fundamentals – Electrician (See Note 1)	2
ELTA 155	Transformer Fundamentals (See Note 1)	1
ELTE 102	Industrial/Construction Safety (See Note 2)	2
ELTE 110	Practical Electricity (See Note 2)	3
ELTE 131	Machine Controls I	4
ELTE 270	Lineman Orientation (See Notes 3 and 4)	1
ELTE 272	Electric Basic Line Climbing (See Notes 3 and 5)	4
ELTE 274	Ground/Utility Worker (See Notes 3 and 5)	5
ELTE 276	Energized Secondary Worker (See Notes 3 and 5)	5
METS 140	Rigging (See Note 2)	3
MGMT 290	TIME Series Topics (See Note 6)	1
PFFT 109	Introduction to Fitness	1
PFFT 113	Core Strength & Flexibility Trng	1
<b>MINIMUM TOTAL</b>		<b>33</b>

### NOTES:

- For those interested in pursuing other curricula in the Electrical Technology program, the following substitutions will also fulfill the requirements for the indicated courses on the Electrical/Utility/Lineworker curriculum: ELTE 121 can be taken in place of ELTA 120; and ELTE 123 in place of ELTA 155.

2. Students who have already completed HVAC 102 or METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for ELTE 102. Any of these four courses may also be used to fulfill the prerequisite for ELTE 110 and METS 140.
3. ELTE 270, ELTE 272, ELTE 274 and ELTE 276 will only be offered at the Consumers Energy Training Facility in Marshall, Michigan. Students will need to make their own transportation arrangements.
4. ELTE 270 is a one week course that will meet each year in August before Fall Semester starts. Enrollment is restricted to students who have received department approval. This course is graded on a Pass/Fail basis and students must receive a passing grade in order to continue with the program.
5. ELTE 272, ELTE 274 and ELTE 276 are scheduled in a nine week block at the end of Spring Semester each year during May, June and July. Enrollment is restricted to students who have received department approval and who have completed all other courses on the curriculum with a minimum 2.0 grade. Students must receive a 3.0 in ELTE 272, ELTE 274 and ELTE 276 in order to successfully complete the program.
6. The specific Time Series Topic that is required for this curriculum is "Time Management".

### **SUGGESTED COURSE SEQUENCE**

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

<b>Summer</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
ELTE 270	ELTE 102	ELTA 120	ELTE 272
PFFT 113	ELTE 110	ELTA 155	ELTE 274
MGMT 290	METS 140	ELTE 131	ELTE 276
		PFFT 109	