



## Electrical Utility/Lineworker C.A.

Curriculum Code: 1468

Effective: Fall 2020 – Summer 2025

### Description

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 Electric Lines Apprenticeship Program with Consumers Energy or another utility/contractor. 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 or at LCC's West Campus. Interested students should contact the Utility and Energy Systems program at Lansing Community College for information.

### Additional Information

ELTE 272, ELTE 274 and ELTE 276 are scheduled in a ten-week block typically offered during Summer Semester. Enrollment is restricted to students who have received department approval and who have completed all other courses on the curriculum with a minimum 2.5 grade except for both sections of PFFT 182 & PFFT 183 and ELTE 182 which must be passed with a minimum 3.0 grade. Students must receive a 2.5 in ELTE 272, ELTE 274 and ELTE 276 in order to successfully complete the program.

PFFT 181 is only required if the student fails the LPAT fitness test.

Students who plan to pursue the Electrical Technology, Associate in Applied Science Degree (0134) or the Electrical/Lineworker, Associate in Applied Science Degree (1783) should substitute ELTE 121 for ELTA 106 and ELTA 120; and ELTE 123 for ELTA 155. ELTE 121 will also fulfill the General Education Applied Mathematics requirement for the degree.

### Contact Information

Contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTA 106	Basic Electrical Calculations	2 / 2
ELTA 120	AC Fundamentals - Electrician	2 / 3
ELTA 155	Transformer Fundamentals	2 / 3
ELTE 102	Industrial/Construction Safety	2 / 3
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 108	Practical Electricity I	2 / 3

Course Code	Course Title	Credit / Billing Hours
ELTE 109	Practical Electricity II	2 / 3
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 173	Energy Industry Fundamentals I	2 / 2
ELTE 174	Energy Industry Fundamentals II	2 / 2
ELTE 181	Pole Climbing I	.5 / 1
ELTE 182	Pole Climbing II	.5 / 1
ELTE 272	Electric Basic Line Climbing	4 / 6
ELTE 274	Ground/Utility Worker	6 / 9
ELTE 276	Energized Secondary Worker	5 / 8
PFFT 183	Lineworker Fitness C	2 / 4

**Program of Study Required Courses, Limited Choice – Rigging – Select one**

Course Code	Course Title	Credit / Billing Hours
ELTE 156	Lineworker/Utility Rigging	3 / 4
METS 140	Rigging	3 / 4.5

**Program of Study Required Courses, Limited Choice – Fitness/Climbing - Select a minimum of .25 credits in Semesters II and III**

Course Code	Course Title	Credit / Billing Hours
ELTE 185	Pole Climbing Practice I	.25 / .5
ELTE 186	Pole Climbing Practice II	.25 / .5
ELTE 187	Pole Climbing Practice III	.25 / .5
ELTE 188	Pole Climbing Practice IV	.25 / .5
ELTE 270	Lineworker Orientation	1 / 1.5
PFFT 181	Lineworker Fitness A	1 / 2
PFFT 182	Lineworker Fitness B	1 / 2

**Total Credit Hours**

41.5-43 credits / 59-62.5 billing hours

**Recommended Course Sequence**

Semester I (Summer)	Semester II (Fall)
ELTE 181 Limited Choice, Fitness/Climbing if needed	ELTA 106 (Second 8 weeks) ELTE 102 ELTE 104 (First 8 weeks) ELTE 108 (First 8 weeks) ELTE 109 (Second 8 weeks) ELTE 182 Limited Choice – Rigging Limited Choice – Fitness/Climbing

Semester III (Spring)	Semester IV (Summer)
ELTA 120 (First 8 weeks)	ELTE 272
ELTA 155 (Second 8 weeks)	ELTE 274
ELTE 154	ELTE 276
ELTE 173 (First 8 weeks)	
ELTE 174 (Second 8 weeks)	
PFFT 183	
Limited Choice – Fitness/Climbing	