



Electrical Utility/Lineworker C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1468

Effective: Fall 2024 – Summer 2029

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.

Milestone

Completion of ELTE 110 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

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 PFFT 182, PFFT 183 and ELTE 182 which must be passed with a minimum 3.0 grade. Students must receive a 3.0 in ELTE 272, ELTE 274 and ELTE 276 in order to successfully complete the program.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., 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
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 173	Energy Industry Fundamentals I	2 / 2

Course Code	Course Title	Credit/ Billing Hours
ELTE 174	Energy Industry Fundamentals II	2 / 2
ELTE 181	Pole Climbing I	.5 / 1
ELTE 182	Pole Climbing II	.5 / 1
ELTE 185	Pole Climbing Practice I	.25 / .5
ELTE 186	Pole Climbing Practice II	.25 / .5
ELTE 270	Lineworker Fundamentals	1 / 1.5
ELTE 272	Electric Basic Line Climbing	4 / 6
ELTE 274	Ground/Utility Worker	6 / 9
ELTE 276	Energized Secondary Worker	5 / 8
PFFT 182	Lineworker Fitness B	1 / 2
PFFT 183	Lineworker Fitness C	2 / 4
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

36.5 credits / 52.5 billing hours

Recommended Course Sequence

Semester I (Summer)
ELTE 181

Semester II (Fall)
ELTA 106 (Second 8 weeks)
ELTE 104 (First 8 weeks)
ELTE 110 – Milestone course
ELTE 173
ELTE 182
ELTE 185
PFFT 182
TECH 102

Semester III (Spring)
ELTE 154
ELTE 174 (Second 8 weeks)
ELTE 186
ELTE 270
PFFT 183

Semester IV (Summer)
ELTE 272
ELTE 274
ELTE 276

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.