



Electrical Utility/Lineworker C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1468

Effective: Fall 2022 – Summer 2027

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 108 and ELTE 109 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses 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 these courses.

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 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.

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
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 108	Practical Electricity I	2 / 3
ELTE 109	Practical Electricity II	2 / 3

Course Code	Course Title	Credit / Billing Hours
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
TECH 102	General Industry Safety	2 / 3

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

Minimum Total Credit Hours

34.5 credits / 49 billing hours

Recommended Course Sequence

Semester I (Summer)
ELTE 181
Limited Choice, Fitness/Climbing if needed

Semester II (Fall)
ELTA 106 (Second 8 weeks)
ELTE 104 (First 8 weeks)
ELTE 108 (First 8 weeks) – Milestone course
ELTE 109 (Second 8 weeks) – Milestone course
ELTE 182
Limited Choice – Fitness/Climbing
TECH 102

Semester III (Spring)
ELTE 154
ELTE 173 (First 8 weeks)
ELTE 174 (Second 8 weeks)
PFFT 183
Limited Choice – Fitness/Climbing

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.