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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTA 106</td>
<td>Basic Electrical Calculations</td>
<td>2 / 2</td>
</tr>
<tr>
<td>ELTE 104</td>
<td>Employee Worksite Basics</td>
<td>1 / 1</td>
</tr>
<tr>
<td>ELTE 108</td>
<td>Practical Electricity I</td>
<td>2 / 3</td>
</tr>
<tr>
<td>ELTE 109</td>
<td>Practical Electricity II</td>
<td>2 / 3</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Course Code</th>
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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.*