

LANSING COMMUNITY COLLEGE

**Computer, Engineering/Manufacturing Industrial Technologies**

**Curriculum Code:  
1777 (Effective Fall  
2017 – Summer  
2022)**

**Energy Industry Fundamentals C.C. Pathway**

**Program of Study Requirements**

Students who have already completed DCTM 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.5 or higher may substitute one of these courses for ELTE 102. Any of these courses may also be used to fulfill the prerequisite for ELTE 108, ELTE 109, and METS 140.

<b>Semester I Fall</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/ Billing Hours</b>
ELTE 102 <i>Full Semester</i>	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
METS 140 <i>Full Semester</i>	Rigging	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4.5
ELTE 104 <i>1st 8 weeks</i>	Employee Worksite Basics	Reading Level 3 and Writing Level 2 and Math Level 3	1 / 1
ELTE 108 <i>1st 8 weeks</i>	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTA 106 <i>2nd 8 weeks</i>	Basic Electrical Calculations	Reading Level 3 and Writing Level 2 and Math Level 4	2 / 2
ELTE 109 <i>2nd 8 weeks</i>	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
<b>Credits</b>			<b>12 / 16.5</b>

Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
<b>Electives - <i>Select 1</i></b>			
ELTE 131 <i>Full Semester</i>	Machine Controls I	Minimum 2.0 in (ELTE 110 or ELTE 108 or ELTE 118) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5
ELTE 154 <i>Full Semester</i>	Utility Prints and Diagrams	Minimum 2.0 in (ELTA 120 or ELTE 121 or concurrently) and Reading Level 3 and Writing Level 2 and (minimum 2.0 in ELTA 106 or Math Level 5)	3 / 3
<b>Program of Study Requirements</b>			
ELTA 120 <i>1st 8 weeks</i>	AC Fundamentals - Electrician	Minimum 2.0 in ((ELTE 110 or ELTE 108 or ELTE 118 or concurrently) and (minimum 2.5 in (ELTA 106 or MATH 114 or Math Level 5)) and Reading Level 3 and Writing Level 2	2 / 3
ELTE 173 <i>1st 8 weeks</i>	Energy Industry Fundamentals I	Reading Level 4 and Writing Level 4 and Math Level 4	2 / 2
ELTA 155 <i>2nd 8 weeks</i>	Transformer Fundamentals	Minimum 2.0 in (ELTE 121 or (ELTA 120 or concurrently)) and Reading Level 4 and Writing Level 2	2 / 3
ELTE 174 <i>2nd 8 weeks</i>	Energy Industry Fundamental II	Minimum 2.0 in (ELTE 173 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	2 / 2
<b>Credits</b>			<b>11-12 / 13-15</b>
<b>Total Credits</b>			<b>23-24 / 29.5-31.5</b>