

**LANSING COMMUNITY COLLEGE**

**Computer, Engineering/Manufacturing Industrial Technologies**

**Curriculum Code: 1476**  
**(Effective Fall 2018 –**  
**Summer 2023)**

**Solar Energy Technician C.A. Pathway**

This certificate is intended to prepare students to work as an entry-level solar energy technician. Solar energy technicians are involved in various aspects of the installation and maintenance of all types and sizes of solar energy systems. Technicians need a working knowledge of all solar energy concepts and design principles.

**For More Information**

Contact the Energy Management Program at the West Campus Building, Room M103, telephone number (517) 483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
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**Program of Study Requirements**

*Students who have already completed ELTE 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for DCTM 102. Any of these courses may also be used to fulfill the prerequisite for HVAC 103 and HVAC 110.*

AEET 216	Solar Energy Technologies	Reading Level 3 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
DCTM 100	Intro to the Built Environment	Reading Level 4 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
DCTM 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 3
HVAC 110	Applied Electricity I	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
<b>Credits</b>			<b>14 / 18</b>

Semester II	Course Title	Prerequisites	Credit/Billing Hours
<b>Program of Study Requirements</b>			
ELTE 141	National Electric Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
HVAC 103	HVAC/R Piping	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2	3 / 4
HVAC 111	Applied Electricity II	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 120	Heating I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
<b>Credits</b>			<b>13 / 16</b>
Semester III	Course Title	Prerequisites	Credit/Billing Hours
<b>Program of Study Requirements</b>			
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
HVAC 130	Air Conditioning I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 221	Introduction to Hydronics	Minimum 2.0 in HVAC 120 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
<b>Credits</b>			<b>9 / 11</b>
<b>Total Credits</b>			<b>36 / 45</b>