Renewable Energy
(CRT.RENEW) Certificate

Manufacturing

You might also like:

Workforce Ready
- Advanced Automation & Control Technology – page 21
- CNC Operator – page 41
- CNC Programmer – page 42
- Computer-Aided Design – page 48
- Computer-Aided Drafting – page 49
- Computer Integrated Manufacturing Technology – page 45
- Electronic Control Technology – page 64
- Electronic Systems Specialist – page 66
- Industrial Maintenance – page 79
- Instrumentation & Control Technology – page 80
- Mechanical-Electrical Technology – page 100
- Programmable Logic Controllers – page 118
- Renewable Energy – page 121
- Renewable Energy Management – page 123
- Sustainable Energy – page 125
- Welding Technology – page 129

This program prepares students for entry level positions into the field of renewable energy technicians and technical maintenance. Emphasis is placed on "green" technologies including electricity, physics, chemistry, wind, photovoltaics, solar thermal, bioenergy, energy efficiency, and smart grid technology. There is a critical skill shortage of trained workers knowledgeable with issues relating specifically to renewable energy and who can troubleshoot renewable energy systems.

Program requirements may change over time. Specific degree/graduation requirements are determined by the students' degree audit.

FIRST YEAR

First Semester			Hours
☐	TEC 057	Introduction to Renewable Energy	3
☐	TEC 040	Blue Print Reading for Industry I	2.5
☐	MET 040	DC Circuits *	2.5
☐	MET 042	AC Circuits *	2.5
☐	TEC 048	Applied Shop Computations	3
☐	TEC 043	Industrial Safety	1
☐	WND 040	Introduction to Wind Technology	3
		SEMESTER TOTALS	**17.5**

Second Semester			
☐	MET 043	Motors and Generators *	2.5
☐	IND 052	Electrical Installation Procedures *	2.5
☐	IND 054	Trouble Shooting and Preventative Maint *	3
☐	IND 044	Fluid Power	3
☐	EET 068	Photovoltaic Systems *	3
☐	WND 041	Wind Technology Maintenance I *	3
☐	WND 042	Tower Rescue and Competent Climber	0.5
		SEMESTER TOTALS	**17.5**
		TOTAL PROGRAM HOURS	**35**

* There are prerequisites, course requisites or minimum placement test scores for this course

For more information regarding related occupations, graduation rates and program costs, go to www.lakelandcollege.edu, link to Academic Programs and select Gainful Employment Information.

Call Counseling Services: 217-234-5232
Email: counsel@lakeland.cc.il.us

Faculty Contact: Joe Tillman
Email: jtillman@lakeland.cc.il.us
Phone: 217-234-5073

NOTES: