

Program: Energy Services and Renewable Technician

Degree: Certificate or Associate in Applied Science

Program Learning Outcomes:

1. Demonstrate skillful and safe work practices when working at heights and/or with electrical, hydraulic, mechanical and control systems.
2. Explain operating principles governing electrical, hydraulic, mechanical and control systems.
3. Troubleshoot and correct faults in electrical, hydraulic, mechanical and control systems.
4. Employ professional oral and written communication skills to ensure safe and optimal operation of facility and equipment.
5. Follow industry standards in the application of mathematics and print reading in a systematic, safe and comprehensive manner, to assist in the troubleshooting and prevention of operational issues with a variety of equipment and systems.

Assessment Cycle:

	AY 2018-2019	AY 2019-2020	AY 2020-2021	AY 2021-2022
Outcome #1	A ESRE 228	R	A ESRE 228	R
Outcome #2	A ESRE 228	R	A ESRE 228	R
Outcome #3	A ESRE 228	R	A ESRE 228	R
Outcome #4	R	A ESRE 218	R	A ESRE 218
Outcome #5	R	A ESRE 218	R	A ESRE 218
IELO	R	A Stand-Alone PV design Grid-tied PV design Problem Solving	R	A Stand-Alone PV design Grid-tied PV design Problem Solving

A = Assessment evidence collected

R = Reflect on data, prep year

Program Curriculum Map

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	Semester Offered	PROGRAM LEARNING OUTCOMES					IELO
		#1	#2	#3	#4	#5	Problem Solving
ESRE 210	Fall	X			X	X	
ESRE 216	Fall	X	X	X	X	X	
ESRE 213	Fall	X	X	X	X	X	
ESRE 218	Fall	X		X	X, A	X, A	X, A
ESRE 224	Spring	X	X	X	X	X	
ESRE 221	Spring	X	X	X	X	X	
ESRE 224	Spring	X	X	X	X	X	
ESRE 228	Spring	X, A	X, A	X, A	X	X	

X = Material introduced, reinforced, and/or opportunity to practice

A = Assessment evidence collected (e.g., lab activity, exam, paper, assignment, etc.)