

Program: Power Plant Technology

Degrees: Certificate and Associate in Applied Science

Program Learning Outcomes:

1. Explain an operator’s responsibilities and demonstrate safe, professional and ethical characteristics necessary in the industry.
2. Describe the design and operation of, as well as diagnose and troubleshoot various equipment and systems used in process/power facilities including instrumentation and auxiliary systems.
3. Employ mathematics, chemistry and thermodynamics in a systematic, safe and comprehensive manner to meet standards and achieve quality and efficiency.
4. Utilize industry standards when reading and interpreting piping and instrumentation drawings.
5. Demonstrate excellent communication skills to ensure safe and optimal operation in a diverse environment.
6. Demonstrate the skills and knowledge necessary in the operation of complex equipment and systems such as boilers, environmental equipment, electrical generators, turbines and electrical protection devices.

Assessment Cycle:

	AY 2018-2019	AY 2019-2020	AY 2020-2021	AY 2021-2022	AY 2022-2023
Outcome #1	ENRT 105 Fall and Spring	R	ENRT 105 Fall and Spring	R	ENRT 105 Fall and Spring
Outcome #2	ENRT 220 Fall and Spring	R	ENRT 220 Fall and Spring	R	ENRT 220 Fall and Spring
Outcome #3	ENRT 218 Fall and Spring	R	ENRT 218 Fall and Spring	R	ENRT 218 Fall and Spring
Outcome #4	R	ENRT 112 Fall and Spring	R	ENRT 112 Fall and Spring	R
Outcome #5	R	ENRT 215 Fall and Spring	R	ENRT 215 Fall and Spring	R
Outcome #6	R	PWRP 224 Fall and Spring	R	PWRP 224 Fall and Spring	R
IELO	R	PWRP 224 Fall and Spring	R	PWRP 224 Fall and Spring	R

A = Assessment evidence collected

R = Reflect on data, action plan devised, prep year

Program Curriculum Map

	PROGRAM LEARNING OUTCOMES						IELO
	#1	#2	#3	#4	#5	#6	Critical Thinking
ENRT 101	X						
ENRT 105	X, A				X		
ENRT 107	X	X					
ENRT 110	X	X		X			
ENRT 112				X, A			
ENRT 103			X				
ENRT 104			X				
ENRT 116		X		X			
ENRT 118			X, A				
ENRT 120		X	X				
ENRT 205					X	X	
ENRT 215		X			X, A		
PWRP 203			X				
PWRP 207						X	
PWRP 210						X	
PWRP 224						X, A	X, A
ENRT 220	X	X, A				X	
General Education Courses					X		

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

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