

Program: Petroleum Production Technology

Degree: Certificate or Associate in Applied Science

Program Learning Outcomes:

1. Evaluate problems by differentiating process variables and propose solutions through oral, written and graphical communications.
2. Explain the framework of the petroleum industry and identify various pieces of equipment utilized in exploration, drilling, production, processing and transportation.
3. Employ basic practices in the areas of safety, mathematics, hydrocarbon chemistry, electrical fundamentals and instrumentation to support the operating parameters in the petroleum production industry.
4. Utilize industry standards when interpreting piping and instrumentation diagrams to evaluate issues, opportunities and developing lockout/tagout procedures.
5. Demonstrate safe, professional and ethical practices in the role of a technician in the petroleum production environment.

Assessment Cycle:

| | AY 2018-2019 | AY 2019-2020 | AY 2020-2021 | AY 2021-2022 |
|-------------------|---------------------------------------|-----------------------|---------------------------------------|-----------------------|
| Outcome #1 | R | A ENRT 215 Fall | R | A ENRT 215 Fall |
| Outcome #2 | A PROD 220 Fall, Final Exam | R | A PROD 220 Fall, Final Exam | R |
| Outcome #3 | A ENRT 220 Spring, Final Grad | R | A ENRT 220 Spring, Final Grade | R |
| Outcome #4 | | A ENRT 112 Fall | R | A ENRT 112 Fall |
| Outcome #5 | A PROD 250 Spring, Ethics Paper | R | A PROD 250 Spring, Ethics Paper | R |
| IELO | A PROD 250 Spring, Ethics Paper | R | A PROD 250 Spring, Ethics Paper | R |

A = Assessment evidence collected

R = Reflect on data, prep year

Program Curriculum Map

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| | Semester Offered | PROGRAM OUTCOMES | | | | | IELO |
|----------|------------------|------------------|------|------|------|------|-------------------|
| | | #1 | #2 | #3 | #4 | #5 | Ethical Reasoning |
| ENRT 101 | FALL | | X | X | | X | |
| ENRT 105 | FALL | | | X | | X | |
| ENRT 107 | FALL | X | | X | | X | |
| ENRT 112 | FALL | | | X | X, A | | |
| PROD 110 | SPRING | X | X, A | | X | | |
| ENRT 103 | SPRING | | | X | X | | |
| ENRT 104 | SPRING | | | X | | | |
| ENRT 116 | SPRING | X | | | X | | |
| PROD 220 | FALL | | X | | | | |
| PROD 230 | FALL | | X | | | | |
| PROD 240 | FALL | | X | | | | |
| ERNT 215 | FALL | | X | X | | | |
| PROP 235 | SPRING | | | X | | X | |
| PROD 250 | SPRING | | X | | | X, A | X, A |
| PROD 239 | SPRING | X, A | X | | | | |
| ENRT 220 | SPRING | | | X, A | | X | |

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

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