2016-2017 Assessment Cycle (College of Engineering) ENGR_Petroleum Engineering BS

Mission

Welcome to the "Mission" tab. First, review the University's Mission, Values, and Vision statements provided below. Then, in the section labeled "Department / Program Mission", type in the current mission for your department, program, or unit. Click "Save" when you are finished.

University Mission

The University of Louisiana at Lafayette offers an exceptional education informed by diverse worldviews grounded in tradition, heritage, and culture. We develop leaders and innovators who advance knowledge, cultivate aesthetic sensibility, and improve the human condition.

University Values

We strive to create a community of leaders and innovators in an environment that fosters a desire to advance and disseminate knowledge. We support the mission of the university by actualizing our core values of equity, integrity, intellectual curiosity, creativity, tradition, transparency, respect, collaboration, pluralism, and sustainability.

University Vision

We strive to be included in the top 25% of our peer institutions by 2020, improving our national and international status and recognition.

Program Mission

Program Mission
If applicable, provide the program's mission in the space provided. If none exists, write "None Available in 2016-2017".
The Department of Petroleum Engineering educates a diverse population of students to become petroleum engineers to perform applied research that benefits petroleum exploration and production, and to provide service to the industry and public. The mechanism for achieving this mission is through a strong foundation to prepare students for international careers, continued education, public service and lifelong learning. The program emphasizes applied and multi-disciplinary teamwork in instruction and in research.

Goals (University/Program tied to Curriculum)

Standards/Outcomes

Identifier	Description

ABET-EAC.1.3	CRITERION: Program Outcomes and Assessment Although institutions may use different terminology, for purposes of Criterion 3, program outcomes are intended to be statements that describe what students are expected to know or be able to do by the time of graduation from the program.
ABET-EAC.1.3.1	> an ability to apply knowledge of mathematics, science, and engineering
ABET-EAC.1.3.10	> a knowledge of contemporary issues
ABET-EAC.1.3.11	> an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
ABET-EAC.1.3.12	Each program must have an assessment process with documented results. Evidence must be given that the results are applied to the further development and improvement of the program. The assessment process must demonstrate that the outcomes of the program, including those listed above, are being measured.
ABET-EAC.1.3.2	> an ability to design and conduct experiments, as well as to analyze and interpret data
ABET-EAC.1.3.3	> an ability to design a system, component, or process to meet desired needs
ABET-EAC.1.3.4	> an ability to function on multi-disciplinary teams
ABET-EAC.1.3.5	> an ability to identify, formulate, and solve engineering problems
ABET-EAC.1.3.6	> an understanding of professional and ethical responsibility
ABET-EAC.1.3.7	> an ability to communicate effectively
ABET-EAC.1.3.8	> the broad education necessary to understand the impact of engineering solutions in a global and societal context
ABET-EAC.1.3.9	> a recognition of the need for, and an ability to engage in life-long learning

Curriculum Map

Assessment Findings for the Assessment Measure level for PETE Assessment

Legend	A - Assessed

<table>
<tr><td>Course/Event</td><td>Course Embedded Assessment</td></tr>
<tr><td>Standard/Outcome</td><td>ABET-EAC.1.3.1 > an ability to apply knowledge of mathematics, science, and engineering</td></tr>
<tr><td>Assessment Measures</td><td>
<table>
<tr><th>Assessment Measure</th><th>Criterion</th><th>Summary</th><th>Attachments of the Assessments</th><th>Improvement Narratives</th></tr>
<tr><td></td><td>Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet?
Met</td><td>Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes’ objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes’ objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes’ objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes’ objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes’ objectives met. PETE 486(002) - Students assessed=42 _ Class average=84.8 _ Outcomes’ objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes’ objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes’ objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes’ objectives met.</td><td></td><td></td></tr>
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Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382/384, PETE 481/483, PETE 486/488, PETE 491/493, and PETE 494/496 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=132 _ Class average=78.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives met.		- Assessment Process: Continuous monitoring: We run 5 labs/course/week. Each lab consists of less than 30. Students work in groups of 4.

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 486, PETE 489, and PETE 491 PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) -		- Assessment Process: Continuous monitoring: We run 5 labs/course/week. Each lab consists of less than 30. Students work in groups of 4.

			Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives met.		

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems
Assessment Measures	

Assessment Measure	**Criterion**	**Summary**	**Attachments of the Assessments**	**Improvement Narratives**
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class		- Assessment Process: Continuous monitoring:

			average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives met.		

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Assessment Measures	

Assessment Measure	**Criterion**	**Summary**	**Attachments of the Assessments**	**Improvement Narratives**
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE		- Assessment Process: Continuous monitoring:

			494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives met.		

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives		- Assessment Process: Continuous monitoring: We run 5 labs/course/week. Each lab consists of less than 30. Students work in groups of 4.

			met.		

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Student involvement in seminars, field trips, technical sessions (SPE, AADE, API, SPWLA), student paper contests, Petrobowl, and traveling overseas. Student enrollment in SPE student chapter is at 310.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives

	Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	In 2017, 6 students have received an IADC WellCAP certificate (average test score=83.9), 5 others received an IADC WellSharp certificate (average test score=71.3). More students are pursuing graduate degrees in different disciplines, 3 graduates have returned to pursue in MS in Petroleum engineering.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues
Assessment Measures	

Assessment Measure	**Criterion**	**Summary**	**Attachments of the Assessments**	**Improvement Narratives**
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) -		- Assessment Process: Continuous monitoring: Students are aware of ethical, social, health, safety and environmental issues. State-of-the-art equipment is purchased to mimic equipment found in the oilfield: New drilling simulators are sought. Department has a the following suite of software: • INTERSECT - 30 licenses_Reservoir simulator - Internal Chevron and Total simulator. • PIPESIM - 35 licenses_Pipeline steady-state multiphase flow • OLGA - 35 licenses_Pipeline dynamic multiphase flow • OFM - 35 licenses_Reservoir monitoring and analysis (e.g. decline curve analysis) • MEPO - 35 licenses_Uncertainty analysis software •

			Students assessed=42 _ Class average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives met.		Mangrove - 10 licenses_Hydraulic fracturing

Legend	A - Assessed
Course/Event	Course Embedded Assessment
Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Assessment Measures	

Assessment Measure	**Criterion**	**Summary**	**Attachments of the Assessments**	**Improvement Narratives**
Direct - Portfolio	Has the criterion at least 90% of students are evaluated with an average score of greater than 70% using the Course Competency Matrix been met yet? Met	Assessed courses are: PETE 382, PETE 481, PETE 486, PETE 489, PETE 491, and PETE 494 PETE 382(001) - Students assessed=36 _ Class average=83.3 _ Outcomes' objectives met. PETE 382(002) - Students assessed=47 _ Class average=83.9 _ Outcomes' objectives met. PETE 481(001) - Students assessed=77 _ Class average=78.2 _ Outcomes' objectives met. PETE 481(002) - Students assessed=43 _ Class average=77.4 _ Outcomes' objectives met. PETE 486(001) - Students assessed=90 _ Class average=82.6 _ Outcomes' objectives met. PETE 486(002) - Students assessed=42 _ Class		- Assessment Process: Continuous monitoring:

			average=84.8 _ Outcomes' objectives met. PETE 489(001) - Students assessed=115 _ Class average=81.4 _ Outcomes' objectives met. PETE 491(001) - Students assessed=140 _ Class average=81.6 _ Outcomes' objectives met. PETE 494(001) - Students assessed=121 _ Class average=83.7 _ Outcomes' objectives met.		

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.1 > an ability to apply knowledge of mathematics, science, and engineering
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet?	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data
Assessment	

Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is		- Assessment Process: Continuous

		receive a score of 70% or better been met yet? Met	78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Assessment Measures	

Assessment Measure	**Criterion**	**Summary**	**Attachments of the Assessments**	**Improvement Narratives**
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning
Assessment Measures	

Assessment	**Criterion**	**Summary**	**Attachments of**	**Improvement**

	Measure			**the Assessments**	**Narratives**
	Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification
Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues
Assessment Measures	

Assessment Measure	**Criterion**	**Summary**	**Attachments of the Assessments**	**Improvement Narratives**
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Wild Well Control Certification

Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will receive a score of 70% or better been met yet? Met	In May 2017, 27 students enrolled in the IADC Drilling Operations Introductory (level 2) training, 25 students passed and 2 failed. The average is 78.8 In December 2017, 25 students enrolled in the IADC Drilling Operations Introductory (level 2) training. 23 passed and 2 failed. The average is 82.3		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Marine Survival Training Certification
Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Marine Survival Training Certification
Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Marine Survival Training Certification
Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed

Course/Event	Marine Survival Training Certification
Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Marine Survival Training Certification
Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring: Process will be carried out during Spring 2018.

Legend	A - Assessed
Course/Event	Marine Survival Training Certification

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues

Assessment Measures

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Marine Survival Training Certification
Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Assessment Measures

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Standardized Test	Has the criterion 80% of the students taking the certification exam will pass the exam and become certified been met yet?	Process will be carried out during Spring 2018.		- Assessment Process: Continuous monitoring:

Summary of Improvement Narratives

Improvement Narrative List

Assessment Findings for the Assessment Measure level

Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	We run 5 labs/course/week. Each lab consists of less than 30. Students work in groups of 4.

Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	We run 5 labs/course/week. Each lab consists of less than 30. Students work in groups of 4.

Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio

Assessment Findings	Met
Improvement Narrative	<table><tr><th>Improvement Type</th><th>Summary</th></tr><tr><td>Assessment Process: Continuous monitoring</td><td></td></tr></table>

Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	<table><tr><th>Improvement Type</th><th>Summary</th></tr><tr><td>Assessment Process: Continuous monitoring</td><td>We run 5 labs/course/week. Each lab consists of less than 30. Students work in groups of 4.</td></tr></table>

Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	<table><tr><th>Improvement Type</th><th>Summary</th></tr></table>

	Assessment Process: Continuous monitoring |

Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	**Improvement Type** | **Summary** Assessment Process: Continuous monitoring |

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	**Improvement Type** | **Summary** Assessment Process: Continuous monitoring | Students are aware of ethical, social, health, safety and environmental issues. State-of-the-art equipment is purchased to mimic equipment found in the oilfield: New drilling simulators are sought. Department has a the following suite of software: • INTERSECT - 30 licenses_Reservoir simulator - Internal Chevron and Total

	simulator. • PIPESIM - 35 licenses_Pipeline steady-state multiphase flow • OLGA - 35 licenses_Pipeline dynamic multiphase flow • OFM - 35 licenses_Reservoir monitoring and analysis (e.g. decline curve analysis) • MEPO - 35 licenses_Uncertainty analysis software • Mangrove - 10 licenses_Hydraulic fracturing

Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Portfolio
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	<table><tr><th>Improvement Type</th><th>Summary</th></tr><tr><td>Assessment Process: Continuous monitoring</td><td></td></tr></table>

Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	<table><tr><th>Improvement Type</th><th>Summary</th></tr><tr><td>Assessment Process: Continuous monitoring</td><td></td></tr></table>

Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems

Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met

Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary

	Assessment Process: Continuous monitoring |

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	**Improvement Type** | **Summary** Assessment Process: Continuous monitoring |

Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Legend	A
Course/Event	Wild Well Control Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	Met
Improvement Narrative	**Improvement Type** | **Summary** Assessment Process: Continuous monitoring |

Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams
Legend	A
Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Legend	A
Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively
Legend	A
Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Legend	A
Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning
Legend	A

Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	Process will be carried out during Spring 2018.

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues
Legend	A
Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test
Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Legend	A
Course/Event	Marine Survival Training Certification
Assessment Measure	Direct - Standardized Test

Assessment Findings	
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Reflection

Reflection

1) How were assessment results shared in the unit?
Please select all that apply; if "other", please use the text box to elaborate.
Distributed via email
Presented formally at staff/department/committee meeting (selected)
Discussed informally
Other (explain in text box below)

2) How frequently were assessment results shared in the unit?

Frequently (>4 times per cycle)
Periodically (2-4 times per cycle) (selected)
Once per cycle
Results were not shared this cycle

3) With whom were assessment results shared?
Please select all that apply.

Department Head
Dean / Asst. or Assoc. Dean
Departmental assessment committee
Other faculty / staff (selected)
Other (please explain in text box below)

Assessment results were shared with faculty and staff during department meetings at the beginning of each semester.

4) What were the measurable or perceivable effects on your current (2016-2017) findings based on prior action plans (created in 2015-2016)?

11 students went trough the certification process with IADC and have all passed thanks to improvements to Drilling Fluids Lecture (PETE 382), Drilling Fluids Lab (PETE 384), Drilling Engineering Lecture (PETE 491) and Drilling Engineering Lab (PETE 493).

5) What has the unit learned from the current assessment cycle?

During this assessment cycle, unit learned that there is need to improve further the content of Drilling Engineering Lecture (PETE 491) and Laboratory (PETE 493) material with more field applications.