2022 ANNUAL ACADEMIC ASSESSMENT REPORT FORM
(Due October 15 to the dean)

PROGRAM SECTION (Due to the dean on October 15)

Submission date: 10/15/2022

Submitted by: William Howell, Assistant Professor, wrhowelljr@alaska.edu

Program(s) covered in this report: Petroleum Technology UC
If you selected "Other" above, please identify. *(100 characters or less)*

College: Community and Technical College

Campuses where the program(s) is delivered: ☐Anchorage ☐KOD ☒KPC ☐MSC ☐PWSC

Specialized accrediting agency (if applicable): N/A
   If explanation is necessary, such as only some of the certificates and degrees are covered by the specialized accreditation, briefly describe:

INSTITUTIONAL STUDENT LEARNING CORE COMPETENCIES

In 2020, UAA launched a consensus-based, deliberative process to identify the key skillsets that help students achieve academic and post-graduation success. After a year-long process that included students, faculty, staff, administrators, alumni, and employers, the UAA community identified four core competencies at the heart of a quality UAA education. Students develop mastery of these competencies through curricular (e.g., courses), co-curricular (e.g., internships, conferences), and extra-curricular (e.g., student clubs) learning experiences.

After the stakeholder-based process in AY20, UAA is phasing in the integration of the core competencies into ongoing processes, including program student learning outcomes assessment. Personal, Professional, and Community Responsibility (PPCR) was integrated into the AY21 Annual Academic Assessment Report. The AY22 Annual Academic Assessment Report now also integrates Effective Communication.

Question #1 below is designed to engage program faculty in thinking about how they can or already do promote student learning in these two core competencies.

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1.   **A.** *Personal, Professional, and Community Responsibility: The knowledge and skills necessary to promote personal flourishing, professional excellence, and community engagement.*

- **If last year you provided your program's current or planned example of an intentionally designed course, assignment, or activity that develops and showcases the student learning in this core competency, please discuss that implementation and any observations you have regarding how well it is working. *(500 characters or less)***
  In last year's report, PRT A260 Oil & Gas Exploration and Production II was identified as a class which covered why quality work is necessary. This was assessed as Outcome #1 (below). 100% of students earned a B or better. Based on this result, it appears to be working very well.

- **If last year you *did not* identify a current or planned example of an intentionally designed course, assignment, or activity that provides students the opportunity to develop and showcase this core competency, please identify one now. *(500 characters or less)***
  NA

B. *Effective Communication: The knowledge and skills necessary to engage in effective communication in diverse contexts and formats.*

- **What would you hope a student would say if asked where in your program or support service they had the opportunity to develop proficiency in this core competency? *(500 characters or less)***
  The student would answer that the development of formal and effective communication skills are critical to their future success in the petroleum industry. The ability to communicate effectively through both verbal and written media, especially in stressful, casualty situations, is vital to sustained safe operations. Imprecise or unclear communications risk serious harm.

- **Provide your program's current or planned example(s) of an intentionally designed course, assignment, or activity that showcases the student learning in this core competency. *(500 characters or less)***
  The PRT A231L Process Technology III: Operations Lab requires students to demonstrate both proper verbal and written communications in a simulated process environment. Students are required to write Standard Operating Procedures for aspects of plant operations. They are required to demonstrate proper verbal radio communications while operating a plant simulator.

PROGRAM STUDENT LEARNING OUTCOMES

2. **Please list the Program Student Learning Outcomes your program assessed in AY22. For each outcome, indicate one of the following: Exceeded faculty expectations, Met faculty expectations, or Did not meet faculty expectations.**

    Example: Communicate effectively in a variety of contexts and formats – Exceeded faculty expectations.

    Outcome #1 (Describe the petroleum production operator's duties): Assessed two classes, 39 student exams. 79% C or better. Met faculty expectations.

    Outcome #2 (Describe the operation of various types of oil & gas well production methods): Assessed two classes, 24 student exams. 83% C or better. Met faculty expectations.

3. **Describe your assessment process in AY22 for these Program Student Learning Outcomes, including the collection of data, analysis of data, and faculty (and other, e.g., advisory board) conversations around the findings.** *(750 characters or less)*
    Program Assessment is accomplished using a three-year rotation. Designated Program Student Learning Outcomes data is submitted by faculty to the KPC Faculty Services Office Manager. The data is correlated with program student outcomes. Aggregated data is reviewed by faculty at the annual faculty assessment meeting and by smaller departmental groups. Faculty provide comments for the narrative report.

4. **What are the findings and what do they tell the faculty about student learning in your program?** *(750 characters or less)*
    With the relaxation of COVID19 protocols, the student learning experience is returning to more traditional forms. Current student performance as measured by the AY22 assessment is in line with traditional student success metrics. Based on these results, the program is assessed to be meeting these PSLOs.

5. **Based on the findings, did the faculty make any recommendations for changes to improve student achievement of the Program Student Learning Outcomes? Please describe the recommended action, what improvement in student learning the program hopes to see with this change, the proposed timeline, and how the program will know if the change has worked. If no recommendations for changes were made, please explain that decision.** *(750 Characters or less)*
    As discussed in the AY21 report, lessons learned from the COVID19 response were considered for permanent changes to the program. We have permanently implemented additional lab intensive days and a coordinated schedule for PRT A144, PRT A230, and PRT A231 lab intensives. This should enhance student success in achieving the PSLOs associated with those labs.

PROGRAM IMPROVEMENTS AND ASSESSING IMPACT ON STUDENT LEARNING

6. **In the past academic year, how did your program use the results of previous assessment cycles to make changes intended to improve student achievement of the Program Student Learning Outcomes? Please check all that apply.**
    ☐ Course curriculum changes
    ☐ Course prerequisite changes
    ☐ Changes in teaching methods
    ☐ Changes in advising
    ☐ Degree requirement changes
    ☐ Degree course sequencing
    ☐ Course enrollment changes (e.g., course capacity, grading structure [pass/fail, A-F])
    ☒ Changes in program policies/procedures
    ☐ Changes to Program Student Learning Outcomes (PSLOs)
    ☐ College-wide initiatives (e.g., High-Impact Practices)
    ☐ Faculty, staff, student development
    ☐ Other
    ☐ No changes were implemented in AY22.

    If you checked "Other" above, please describe. *(100 characters or less)*

7. **Do you have any information about how well these or other past improvements are working? Are they achieving their intended goals? Please include any data or assessment results that help you demonstrate this. *(750 characters or less)***
    Data is not yet available, but will be collected IAW the Assessment Plan.

8. **PROGRAMS ARE NOT REQUIRED TO RESPOND TO QUESTION #8 FOR THEIR REPORT DUE ON OCTOBER 15, 2022. IT IS HERE JUST FOR THEIR REFERENCE.**

9. **Do you have any examples of post-graduate success you want to highlight? For example, major scholarships, the percent of students who pass licensure examinations, the percent of students accepted to graduate programs, the percent in post-graduation employment in the field or a related field. *(750 characters or less)***
    Nothing at this time.

DEAN SECTION (Due to the program on January 15)

1. **Based on the program's responses above, what guidance and support do you have for the program moving forward?** *(750 characters or less)*
   This program is only offered at KPC. Based on the above assessments, I believe that the program should continue to work closely with their Director to continue their outreach to industry.

2. **What is the program doing particularly well in terms of its processes for the assessment and improvement of student learning, for example, the achievement of the Program Student Learning Outcomes, the closing of equity gaps, or addressing the core competencies?** *(750 characters or less)*
   It is clear from the assessment that the Process Technology programs is well in line with the oil and gas industry. The program and their faculty work directly with industry to coordinate course content and employment of graduates. This program also should be commended for their efforts in modernizing the delivery methods post-COVID, such as intensives, to make sure students have everything they need to be successful in courses and their career.

Dean's signature: **Date:** 2/3/2023