

Power Technology
University of Alaska Southeast
2023-2024 Annual Program Assessment Report
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Program Overview

The Power Technology Program at UAS provides students with the skills they need to find and retain good paying jobs in a variety of different fields. The Power Technology programs are dedicated to providing safe, quality learning opportunities in a supportive environment where power technology students can learn new skills or advance existing skill levels. The Power Technology department provides the knowledge, the tools and experiences that enable students to develop professionally and experience personal growth and enrichment.

Program Learning Outcomes for AAS Power Technology Degrees

Upon completion, students will be able to:

1. Comply with personal and industry safety practices specific to the diesel industry.
2. Evaluate and apply technical information and testing procedures from a variety of sources to troubleshoot diesel equipment..
3. Demonstrate proper maintenance, diagnosing, and repair of the following systems: engine, electrical, hydraulic, refrigeration, drive train, brakes, steering/suspension, marine vessel components, and AC power generation.
4. Demonstrate proper communication and documentation of work performed using trade specific language.
5. Select responsible and ethical actions as an employee by being punctual, adhering to company policies, and interacting positively and appropriately with co-workers, supervisors, and customers.
6. Apply research techniques to identify emerging heavy equipment technologies.

For the purpose of this annual assessment, faculty determined to assess the first PLO, Comply with personal and industry safety practices specific to the diesel industry.

Data Collection and Analysis on the PLO's (rubrics, portfolios, etc.)

Over the past few years, there has been turnover in the faculty and leadership positions at Career Education. Hence, annual assessments were not completed or faculty did not understand the reasoning

for assessment. Data is collected in classes that meet the PLO's. For example, in DESL 102, students complete tasks that show how to properly and safely use the various tools and equipment in our diesel lab. However, there did not seem to be a consistent process to ensure safety is woven throughout program courses, nor is there an assessment tool behind a grade to assess students demonstrating knowledge of the PLO.

The data collected on the PLO's during the previous academic year (assessment period)

DESL 102 collected data in the form of grades during the first week of the course to show students could safely use tools and equipment in the diesel lab.

An evaluation/analysis of the data collected

Power Technology program met to discuss the overall process associated with evaluating program learning outcomes. Overall, individual faculty have assessment tools to convey the importance of safety as it relates to program learning outcome one. However, there is not a systematic process to evaluate across all program classes.

Conclusions and plans for program improvement

The Power Technology program recommended establishing a pre and post safety review for all program courses. Faculty will meet prior to the start of the fall 2025 semester to determine the tool and ensure it is implemented in every class.

Power Technology faculty plan to review program learning outcomes in the fall to determine if there is any revision needed.