

**LAKELAND COMMUNITY COLLEGE
TAC-ABET ACCREDITED NUCLEAR ENGINEERING TECHNOLOGY
PROGRAM EDUCATIONAL OBJECTIVES AND STUDENT OUTCOMES**

PROGRAM EDUCATIONAL OBJECTIVES

Program Educational Objectives (PEO) are broad statements that describe what graduates are expected to attain within a few years of graduation. Program Educational Objectives are based upon the needs of the various program constituencies. The published and adopted PEO is listed below:

The Nuclear Engineering Technology program is based on the nuclear industry “Non-licensed Operator” training requirements. Before being hired to work within the nuclear industry, students must be able to pass a background check, drug tests, and psychological screening. Lakeland is one of only a handful of colleges nationwide to offer a two-year degree program in Nuclear Engineering Technology that is TAC/ABET (Technology Accreditation Commission of the Accreditation Board of Engineering and Technology) accredited. Graduates will be able to: (1) solve basic technical problems typical of what is encountered when working at a nuclear power plant; (2) perform tests and experiments, data analysis, and report findings including recommendations for improvement; (3) work and communicate effectively in diverse and multi-disciplinary teams; (4) be aware of modern professional, ethical, and societal issues as well as recognize the need for lifelong learning.

STUDENT OUTCOMES

Student Outcomes (SO) describe what students are expected to know, and to be able to do, by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the Engineering Technology (ET) programs. The Engineering Technology departments have adopted the following TAC-ABET SO:

- a. an ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
- b. an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;
- c. an ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments;
- d. an ability to function effectively as a member of a technical team;
- e. an ability to identify, analyze, and solve narrowly defined engineering technology problems;
- f. an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- g. an understanding of the need for and an ability to engage in self-directed continuing professional development;
- h. an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity; and
- i. a commitment to quality, timeliness, and continuous improvement.