

## ABET STUDENT LEARNING OUTCOMES (SLO)

ABET student learning outcomes (SLO) are designed to ensure that graduates of accredited programs are well-prepared for professional practice. These outcomes describe what students are expected to know and be able to do by the time they graduate. They focus on the knowledge, skills, and behaviors that students acquire throughout their education. The primary purposes of these outcomes include:

- **Guiding Curriculum Development.** SLO's provide a foundation to design the Construction Engineering Technology (CET) and Electronic Engineering Technology/Robotics (EET) curricula to ensure educational objectives of the program are met.
- **Ensuring Consistency.** SLO's provide a common framework across different programs and institutions for crafting learning objectives and evaluating student performance.
- **Facilitating Assessment and Improvement.** SLO's serve as benchmarks for assessing student performance and identifying areas for continuous improvement.
- **Preparing for Professional Practice.** SLO's help ensure that graduates from the SAET possess the necessary competencies to enter and succeed in their professional careers.

The Student Learning Outcomes are as follows:

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
5. An ability to function effectively as a member as well as a leader on technical teams.