

## Student Outcomes VS ABET Learned Capabilities

ABET Student Outcomes		Nuclear Operations Technology Student Outcomes	
1	an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline;	1	Apply knowledge of mathematics and natural sciences (physics, chemistry, thermodynamics, and electrical sciences) to solve related problems.
		2	Demonstrate a knowledge of nuclear physics, reactor protection, design, materials and radiation protection to analyze and solve nuclear industry problems.
2	an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline;	3	Demonstrate a knowledge of nuclear plant system operations, plant components and an ability to interpret drawings during operation, troubleshooting, and maintenance evolutions.
3	an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature	5	Demonstrate an understanding of the principles of Conduct of Operations.
		6	Demonstrate effective written and oral communication in individual and group environments.
		8	Demonstrate an understanding of the Federal, State and Local regulations, standards and rules applying to the nuclear industry, as well as safe work practices.
4	an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results	4	Integrate and apply knowledge of nuclear technical material, safety procedures and operations to analyze abnormal, emergency and nuclear accident scenarios.
		7	Demonstrate the ability to collect, analyze, and interpret data; report findings including observations and appropriate recommendations.
5	an ability to function effectively as a member of a technical team.	9	Demonstrate an understanding of ethical responsibilities require in the nuclear industry.
		10	Demonstrate the ability to provide leadership and function as a member of a team.