

Student Outcomes VS ABET Learned Capabilities

ABET Student Outcomes		Mechanical Engineering 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;	5	Analyze systems through the understanding of mechanical principles, fluid mechanics, thermodynamics, material science, and equipment design.
		8	Demonstrate basic structural welding.
		9	Demonstrate basic computer-aided drafting and design.
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;	2	Be aware and familiar with society and government codes, standards, and regulations with their typical format and application.
		6	Identify the correct pump or valve for a given process condition and apply a comprehensive understanding of pumps and valves to troubleshoot system.
		11	Recognize specific equipment applications for reactive, preventative, predictive, and proactive maintenance.
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	3	Demonstrate written and verbal communication skills.
		7	Interpret and utilize technical documentation.
4	an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results	4	Utilize test equipment to troubleshoot and analyze electrical, electronic, instrumentation, and motor control related circuits.
		10	Demonstrate commissioning practices for equipment setup and alignment.
5	an ability to function effectively as a member of a technical team.	1	Demonstrate safe work practices in laboratory and industrial environments