



SCHOOL OF INDUSTRIAL TECHNOLOGY TECHNICAL STANDARDS

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The mission of the School of Industrial Technology is to provide traditional, hybrid, and hands-on learning experiences leading to associate degrees, technical diplomas, and certificates that empower learners in their industrial career and technical education excelling as globally competitive citizens. Each program is designed to help students gain the necessary skills to be successful in industry-related occupations. Faculty members engage students with hands-on assignments and cutting-edge technology to foster an effective learning environment. The School of Industrial Technology prepares students for high-demand, high-wage, fulfilling careers. The technical standards discussed in the following chart define performance expectations that should be met for advancement through and successful completion of the Industrial Technology programs (Chemical Laboratory, Industrial Electrical, Industrial Instrumentation, and Process Technology). These standards are not intended to discourage individuals from considering and of the programs in the Industrial Technology field, but to provide an overview so that individuals can make a well-informed decision regarding their academic pursuits. It is the policy of SOWELA Technical Community College to provide reasonable accommodations for those with disabilities, health impairments, and other conditions. Individuals that would like to pursue a degree in this program and believe they may need accommodations are encouraged to reach out to the Office of Disability Services at (337) 421 – 6576 or email ods@sowela.edu.

ABILITY	STANDARD	Some examples of necessary activities (not all inclusive)
Physical Demands / Motor Skills	<ul style="list-style-type: none"> • Ability to use hands to handle, control or feel objects, tools, or controls. 	<ul style="list-style-type: none"> • Ability to stand, move, bend, stretch, twist, or reach with your body, arms, and/or legs and doing such movements such as climbing, lifting, balancing, walking, stooping, and handling of materials. • Ability to stand for long periods of time. • Ability to individually check and inspect rotating equipment. Ascertain if equipment needs oil, cooling water, and back flushing. • Ability to quickly adjust controllers to maintain safe operating conditions.
Critical Thinking/ Observation/ Sensory/ Reasoning Skills	<ul style="list-style-type: none"> • Must be able to use logic and reasoning to identify any issues with equipment as part of regular rounds. • Must have visual perception. Ability to see details of objects that are less than a few feet away and see details of objects that are more than a feet away. 	<ul style="list-style-type: none"> • Demonstrate problem solving skills. • Understand written sentences and paragraphs in work related documents. • Be able to read and understand start-up and shutdown procedures, as well as normal operating conditions. • Understand and perform LOTO.

	<ul style="list-style-type: none"> • Ability to problem solve and diagnose correctly, in a timely manner. • Be able to recognize when there is a problem or possible problem. • Be aware of surroundings by using senses. 	<ul style="list-style-type: none"> • Determining causes of abnormal conditions and deciding how to correct them. • Observations require functional use of vision, hearing and other sensory modalities. • Hear sounds and recognize the differences. • Be able to focus on one source of sound and ignore others. • Notice and respond appropriately with unusual smells such as motors overheating or belts burning.
Behavioral / Social Skills and Professionalism	<ul style="list-style-type: none"> • Sufficient personal skills for successful interactions with customers, colleagues, and supervisors. • Emotional well-being required for use of intellectual abilities and the exercise of sound judgment. • Ability to adapt to emergency conditions that could be very stressful. • Must comply to all safety standards and procedures. 	<ul style="list-style-type: none"> • Have face-to-face discussion with individuals in work areas. Have good communication skills, professional conduct, and appearance. • Willing to work with others as well as alone. • Demonstrate attributes of being safety minded and have concern for others (brother's keeper). • Be an honest and ethical worker. Able to get along with others and display a good-natured, cooperative attitude. • Be careful about detail and thoroughness in completing work tasks. • Maintain composure, keep emotions in check, control anger, and avoid aggressive behavior even in very difficult situations.
Communication Skills	<ul style="list-style-type: none"> • Ability to communicate not only in speech but reading and writing in English. • Ability to speak clearly while using radios in the field. • Ability to type or write in logbooks to communicate to other shift personnel. 	<ul style="list-style-type: none"> • Communicate verbally with others to the conditions of the process. • Use radio daily in communicating to console operator. • English communication skills for necessary interaction with faculty, peers, and others orally and in writing.
Working Conditions	<ul style="list-style-type: none"> • Ability to work in various environments. • Ability to meet work environment criteria at time of employment. 	<ul style="list-style-type: none"> • Work with equipment such as reactors, distillation towers, and extraction systems. • Work in hot, cold, and wet conditions outside with operating HOT unit. • Physically active for long periods without getting tired or out of breath.

Please note: In the case of a qualified individual with a documented disability, reasonable accommodations will be made. Students must self-identify to the Office of Disability Services if you feel one or more of the required standards cannot be met due to a documented disability. The Office of Disability Services can be contacted at 337.421.6576 or ods@sowela.edu.

SOWELA Technical Community College does not discriminate on the basis of race, color, national origin, gender, disability, or age in its programs or activities. The following person has been designated to handle inquiries regarding the non-discrimination policies:

Title: Compliance Office
Address: 3820 Senator J. Bennett Johnston Ave, Lake Charles, LA 70616
Telephone No: (337) 421-6905 or 800-256-0483
Email: complianceofficer@sowela.edu