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MACHINE TOOL TECHNOLOGY

The purpose of the Machine Tool Technology (MTEC) program is to prepare students with a combined practical approach to the study of machining and millwright. The program will prepare students to install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, and adjust the moving and stationary parts of machines to certain specifications. Students will learn troubleshooting techniques and strategies. They will shape metal parts on lathes, grinders, drill presses, milling machines and computer numerical controlled machines and utilize these parts in the repair of heavy equipment and machinery. The program includes making computations for dimensions and cutting feeds and speeds using precision measuring instruments, laying out of parts, and heat treatment of metals. Students will receive hands-on experience with pumps, gearboxes, and compressors. 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 Accessibility 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 safely lift/carry a minimum of 50lbs. • Ability to stand/kneel/crouch for extended periods of time. 	<ul style="list-style-type: none"> • Carry supplies. • Machining or repairing various components in multiple positions.
Critical Thinking/ Observation/ Sensory/ Reasoning Skills	<ul style="list-style-type: none"> • Ability to understand verbal and written instructional approaches and apply this understanding to MTEC projects in a manner that produces quality outcomes and safe work practices. • Ability to use sensory (hearing, visual, and smell) skills to be able to detect danger from various equipment found in MTEC shops. 	<ul style="list-style-type: none"> • Apply information given by the professor in both lab and lecture settings to assigned work to meet MTEC specifications and NCCER standards. • Student is successful in the MTEC Lab and classroom instructional settings. • Ability to detect danger of leaking gases, fire, danger to extremities, forklift traffic, and audible/visual alarms.

ABILITY	STANDARD	Some examples of necessary activities (not all inclusive)
Behavioral / Social Skills and Professionalism	<ul style="list-style-type: none"> Students should, at ALL times, demonstrate integrity and academic honesty as listed in the Student Handbook. Students should, at ALL times, meet and practice safety standards concerning clothing and PPE, housekeeping, tools and equipment during MTEC training. 	<ul style="list-style-type: none"> Student consistently demonstrates a professional work ethic and positive student-to-instructor interactions creating an effective learning environment. Proper safety awareness and attitude helps to provide a safe environment that is conducive to learning and student achievement.
Communication Skills	<ul style="list-style-type: none"> Willingness to clarify understanding of the proper procedures and work methods assigned, especially when lacking understanding. 	<ul style="list-style-type: none"> Student asks questions for understanding and correctly performs proper procedures.
Working Conditions	<ul style="list-style-type: none"> Ability to tolerate and adequately function in hot and cold work conditions 	<ul style="list-style-type: none"> Working for 6 hours in indoor and outdoor areas without heating or air conditioning.

SOWELA Technical Community College does not discriminate on the basis of race, color, marital status, national or ethnic origin, gender, religion, disability, sex, genetic information, veteran's status, age, or any status or organization protected by state or federal law, 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