

WELDING TECHNOLOGY

Technical Standards

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

South Plains College's **Welding Technology** program has established technical standards and essential functions for the program. The ability to meet these standards and essential functions, with or without reasonable accommodations, is required in order to satisfactorily complete the program.

The college does not discriminate in admission or access to programs on the basis of any characteristic protected by law, including disability. Persons with disabilities are eligible for admission, as long as they can carry out classroom and laboratory assignments; pass written, oral and practical examinations; and meet all of the requirements of the program and generally accepted requirements of the profession, with or without reasonable accommodations.

Disability & Accommodations Services: If you have a disability or acquire one, you may be entitled to receive support services and/or accommodations intended to assure you an equal opportunity to participate in, and benefit from, the program. Reasonable accommodations for students with disability related needs will be determined on an individual basis taking into consideration the technical standards and essential skills which must be performed to meet the program objectives. To receive more information or to apply for services, please contact the Student Disability Services 806-716-4675 (Reese/ATC/Plainview) or 806-716-2577 (Levelland).

Requirements	Standards	Examples
Critical Thinking	Demonstrate ability to use logic and technical analysis to identify the strengths and weaknesses of different approaches to completing welding tasks.	Demonstrate judgement and decision making as required to organize various tasks to complete welding assignments and projects.
Problem Sensitivity	Noticing when problems happen.	Recognizing safety hazards and having the ability to correctly react.
Visualization	Imagining how something will look after it is moved around or changed.	Being able to determine what a completed weldment should look like using only a two dimensional pictorial representation for reference.
Communication	Communication abilities sufficient for interactions with others in verbal and written form.	Use oral expression, reading and writing comprehension to verify the information was received.
Control Precision	Quickly changing the controls of a machine, car, truck or boat.	Being able to quickly and precisely adjust cutting and welding equipment to control parameters.
Mobility	Demonstrate ability to push and pull industrial equipment up to <u>75</u> lbs.	Demonstrate ability to lift containers of welding rods weighing <u>75</u> lbs.
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate or assemble objects.	Demonstrate ability to have individual hands perform different manual functions simultaneously. (Hold torch with one hand-feed welding wire with other hand).

Multi-limb Coordination	Using your arms and/or legs together while sitting, standing, or lying down.	Must have the ability to weld in all positions for extended times.
Arm-Hand Steadiness	Keeping your arm or hand steady.	Having the ability to precisely control a weld puddle in order to produce a weld bead that conforms to the applicable standards.
Hearing	Demonstrate hearing awareness of potentially hazardous industrial equipment.	Hear and detect safety hazards like flammable gas leaks. Hear and detect industrial equipment problems, overloading, and/or failures.
Visual	Operational Monitoring Near Vision	Watching gauges, dials, or other indicators to make sure a machine is working properly. Must have sufficient near vision, non-corrected or corrected, to clearly distinguish small details commonly found in a welding environment. Such as but not limited to, 1/32" and 1/16" increments on tape measures and rulers, and weld pools smaller than 3/32" in diameter.
Safety	The ability to follow and implement safety practices in the shop.	The Welding Technology program prepares students to enter an occupation where industrial safety is a critical competency and will require all students to successfully complete a program specific safety examination prior to participating in laboratory activities. Safety examination includes written and practical "hands-on" preparation, demonstration, and safe operation of occupational processes and equipment.