

Electrician and Power Transmission

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

South Plains College's **Electrician and Power Transmission** 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	<p>Demonstrate ability to use logic and analysis to determine various electrical values</p> <p>Demonstrate personal time management to complete projects by given deadlines.</p> <p>Demonstrate management of financial resources.</p> <p>Demonstrate management of material resources.</p> <p>Exhibit judgment and decision making.</p> <p>Exhibit solution Appraisal.</p> <p>Exhibit deductive reasoning.</p>	<p>Calculate electrical values to determine system requirements.</p> <p>Scheduling of construction or repair services.</p> <p>Calculate and bid service costs.</p> <p>Determine materials needed for troubleshooting or construction.</p> <p>Logically progress through troubleshooting procedures.</p> <p>Perform a risk assessment and determine safe procedures for electrical installations.</p> <p>Determine electrical standards applicability.</p>
Communication	<p>Communication abilities sufficient for interactions with others in verbal and written form.</p>	<p>Transmit electrical values and data interpretation.</p> <p>Correctly fill out reports, forms, and statements.</p>
Mobility	<p>Demonstrate physical abilities including: climbing, carrying, standing, sitting, walking, stooping, crawling, reaching, squatting, lifting, bending, and range- of-motion of extremities to maneuver in small spaces.</p>	<p>Lifting and carrying materials of 50 lbs. or less on the worksite.</p> <p>Climbing ladders or poles.</p> <p>Work in confined spaces.</p>
Motor Skills (Tactile)	<p>Demonstrate tactile ability sufficient for physical assessment and intervention.</p> <p>Demonstrate finger dexterity.</p> <p>Balance while walking or climbing.</p>	<p>Operate hand and motorized tools safely.</p> <p>Make connections using small screws or pieces.</p> <p>Safely ascend a stepladder carrying a load.</p>

Physical Endurance	Demonstrate sufficient physical endurance to complete assigned work and/or projects in various workplaces.	<p>Manipulate hand and motorized tools in confined spaces and extreme environmental variations.</p> <p>Carry loads up to or exceeding 50 lbs.</p> <p>Climb ladders or poles in excess of 20 ft.</p> <p>Swing a 3lb hammer repeatedly.</p> <p>Torque bolts and screws using hand tools.</p> <p>Use shovels and other hand tools.</p>
Environmental Tolerance	Demonstrate ability to function safely in a typical workplace environment for long periods.	<p>Adapt and work in confined spaces with harsh environments.</p> <p>Work in situations of variations in lighting.</p> <p>Tolerate temperature extremes of hot and cold environments.</p>
Hearing	<p>Demonstrate hearing ability sufficient to understand verbal communication.</p> <p>Demonstrate hearing awareness of potentially hazardous equipment and warning indicators.</p>	<p>Understand verbal safety and job briefings.</p> <p>Communicate clearly by telephone or communication devices.</p> <p>Communicate effectively with clients and co-workers.</p> <p>Detect audible alarms.</p>
Visual	<p>Exhibit visual color discrimination.</p> <p>Exhibit adequate vision for the given task.</p>	<p>Be able to differentiate various conductor colors.</p> <p>Read meters in various amounts of light.</p> <p>Adequate vision to obtain a CDL license.</p> <p>Material and component identification by sight.</p> <p>Read manufacturer's directions and code references written in fine print.</p>
Safety	The ability to follow and implement safety practices and risk assessments.	The Electrician and Power Transmission program prepares students to enter an occupation where safety is a critical competency and will require all students to successfully complete a program specific safety examination. Safety examination includes written and practical "hands-on" preparation, demonstration, and safe operation of occupational processes and equipment. Students must be able to perform a hazard risk assessment before attempting assignments.