

ELECTRICIAN I

GRADE: 08

GENERAL DESCRIPTION

Performs moderately complex (journey-level) work in the maintenance and repair of electrical equipment and circuits; Work involves installing, replacing, and maintaining electrical systems, apparatus, components of machinery, and equipment; Works under general supervision with moderate latitude for the use of initiative and independent judgment.

EXAMPLES OF WORK PERFORMED

Installs and repairs electrical systems, apparatus, and electrical components of machinery and equipment

Inspects and tests electrical equipment, lighting, and power circuits

Isolates defects in wiring, circuit breakers, fuses, switches, sockets, and other elements and replaces faulty switches, circuit breakers, fuses, sockets, and other elements of electrical systems

Interprets blueprints sketches and schematic drawing of electrical circuits

Calculates electrical loads, wire sizes, and lengths

Mounts motors, transformers, and lighting fixtures into position and completes circuits according to diagram specifications

Repairs electrical circuits

Repairs magnetic starters and remote start-stop stations; operates and maintains high- and low-voltage switches; and installs rigid, thin wall, and flexible conduit

Wires circuits and cleans and tightens low voltage switch gears

Assists in the maintenance and renovation of electrical service

Performs related work as assigned

GENERAL QUALIFICATION GUIDELINES

Experience and Education

One to Two (1-2) years of experience in electrical work; Graduation from a high school or equivalent, supplemented by vocational or special training in an electrical trade, is generally preferred. Experience and education may be substituted for one another.

Knowledge, Skills, and Abilities

Knowledge of general principles and theory of electricity and of safety regulations

Skill in the use of tools

Ability to maintain proper ventilation and heating level, to make maintenance or electrical repairs, to diagnose malfunctioning units, to maintain records, and to supervise the work of others

PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is regularly required to talk or hear. The employee frequently is required to stand. The employee is occasionally required to walk; sit; use hands to find, handle, or feel objects, tools or controls; reach with hands and arms; climb or balance; stoop and kneel.

The employee must occasionally lift and/or move over 25 pounds. Specific vision abilities required by this job include close vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT:

The work environment characteristics described here are representative of those an employee encounter while performing the essential functions of this job.

The noise level in the work environment is usually moderate.

SAFETY REQUIREMENTS:

Maintain physical conditions appropriate to the performance of assigned duties and responsibilities which may include the following:

- sitting for extended periods of time
- standing for extended periods of time
- operating assigned equipment

Maintain mental capacity which permits:

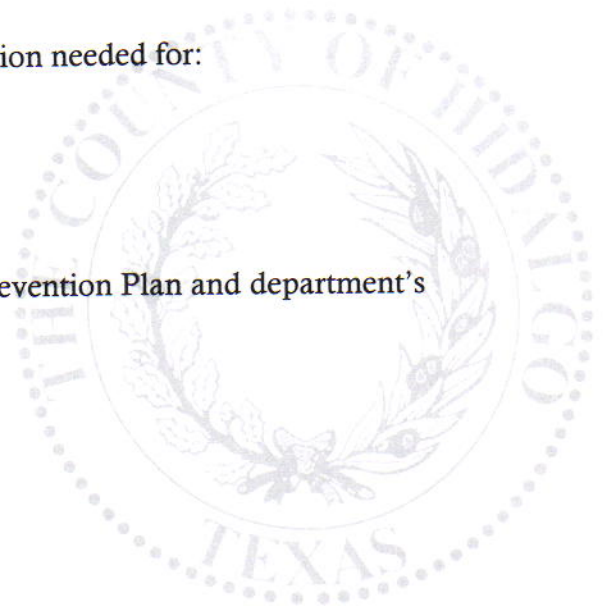
- making sound decisions and using good judgment
- demonstrating intellectual capabilities

Effectively handle a work environment and conditions which involve:

- working closely with others
- working in a multi-task environment

Maintain effective audio-visual discrimination and perception needed for:

- making observations
- reading and writing
- operating assigned equipment
- communication with others
- required to follow the Hidalgo County Accident Prevention Plan and department's safety regulations



ELECTRICIAN HELPER

GRADE: 04

GENERAL DESCRIPTION

Performs entry level (journey-level) work in the maintenance and repair of electrical equipment and circuits; Work involves assisting in installing, replacing, and maintaining electrical systems, apparatus, components of machinery, and equipment; Performs semi-skilled duties assisting in various skilled trades or general maintenance or construction work; Works under general supervision with moderate latitude for the use of initiative and independent judgment.

EXAMPLES OF WORK PERFORMED

Assist in Installation and repairs electrical systems, apparatus, and electrical components of machinery and equipment

Assist with Inspections and tests electrical equipment, lighting, and power circuits

Assist Electrician when he Isolates defects in wiring, circuit breakers, fuses, switches, sockets, and other elements and replaces faulty switches, circuit breakers, fuses, and other elements of electrical systems

Assist Electrician when he Mounts motors, transformers, and lighting fixtures into position and completes circuits according to diagram specifications

Assists in the maintenance and renovation of electrical service

Assists electricians in installing and repairing electrical wiring, fixtures, and related equipment

Assists painters in mixing and matching paints, stains, and painting

Assists plumbers in installing, maintaining, and repairing pipes, valves, faucets, sinks, and other plumbing facilities

Assists masons in laying brick, cement block, and sidewalks

Assists carpenters in repairing chairs, tables, fences, doors, windows, floor, and other articles and fixtures

Assists maintenance personnel in the repair and maintenance of buildings

Assists HVAC mechanics in the operation, maintenance, and repair of heating, refrigeration, and air-conditioning equipment

Assists equipment mechanics in the repair and maintenance of gasoline and/or diesel operated vehicles or other related mechanical components

Assists with the construction, maintenance, and repair of roads, bridges, ditches, culverts, and associated structures

Assists in the use of gas/electric operated equipment

Assists in the repair and maintenance of tools and equipment

Cleans work sites upon work completion

Performs general care, maintenance and cutting of trees

Drives a motor vehicle to and from work sites

Performs related work as assigned

GENERAL QUALIFICATION GUIDELINES

Experience and Education

One (1) year experience in electrical work, general maintenance, or construction work; Graduation from a high school or equivalent is generally preferred; Experience and education may be substituted for one another.

Knowledge, Skills, and Abilities

Knowledge of general principles and theory of electricity and of safety regulations

Skill in the use of tools

Ability to maintain proper ventilation and heating level, to make maintenance or electrical repairs, to diagnose malfunctioning units, to maintain records, and to supervise the work of others

PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is regularly required to talk or hear. The employee frequently is required to stand. The employee is occasionally required to walk; sit; use hands to find, handle, or feel objects, tools or controls; reach with hands and arms; climb or balance; stoop and kneel.

The employee must occasionally lift and/or move over 25 pounds. Specific vision abilities required by this job include close vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT:

The work environment characteristics described here are representative of those an employee encounter while performing the essential functions of this job.

The noise level in the work environment is usually moderate.

SAFETY REQUIREMENTS:

Maintain physical conditions appropriate to the performance of assigned duties and responsibilities which may include the following:

- sitting for extended periods of time
- standing for extended periods of time
- operating assigned equipment

Maintain mental capacity which permits:

- making sound decisions and using good judgment
- demonstrating intellectual capabilities

Effectively handle a work environment and conditions which involve:

- working closely with others
- working in a multi-task environment

Maintain effective audio-visual discrimination and perception needed for:

- making observations
- reading and writing
- operating assigned equipment
- communication with others
- required to follow the Hidalgo County Accident Prevention Plan and department's safety regulations