General Statement of Duties
Installs, modifies, fabricates, troubleshoots, repairs and maintains a wide variety of specialized technical electronic equipment and electrical systems.

Distinguishing Characteristics
This class is distinguished from Electronic Equipment Installer, which installs electronic equipment including two-way radio, cellular phone, mobile computer terminals and ancillary electronic equipment in a variety of City vehicles. This class is distinguished from Communications Electronic Technician, which performs bench and field maintenance and repair work on electronic and electrical systems in radio transmitters and receivers. This class is also distinguished from Maintenance Technician, which performs standard performance, semi-skilled, trades work in a variety of trade areas for the purpose of construction, maintenance, repair and/or installation of equipment and/or facilities (mechanical work).

Guidelines, Difficulty and Decision-Making Level
Guidelines are generally but not always clearly applicable, requiring the employee to exercise judgment in selecting the most pertinent guideline, interpret precedents, adapt standard practices to differing situations and recommend alternative actions in situations without precedent.

Duties assigned are generally complex and may be of substantial intricacy. Work assignment is performed within an established framework under general instructions but requires simultaneous coordination of assigned functions or projects in various stages of completion.

Employee is responsible for determining time, place and sequence of actions to be taken. Unusual problems or proposed deviations from guidelines, practices or precedents may be discussed with the supervisor before being initiated.

Level of Supervision Received & Quality Review
Under general supervision, the employee receives assignments and is expected to carry them through to completion with substantial independence. Work is reviewed for adherence to instructions, accuracy, completeness and conformance to standard practice or precedent. Recurring work clearly covered by guidelines may or may not be reviewed.

Interpersonal Communication & Purpose
Contacts with the public or employees where explanatory or interpretive information is exchanged, gathered or presented and presented and some degree of discretion and judgment are required within the parameters of the job function.

Level of Supervision Exercised
By position, performs lead work.

Essential Duties
Repairs and maintains electronic systems and equipment such as microwave, radar, radio, computers, cellular phones, closed circuit TV, cable TV, security, runway lighting, paging, fire alarm and other related electronic, control and signalizing systems.
Troubleshoots, tests, diagnoses, calibrates, and performs bench and field repairs to the component level.

Designs and fabricates circuits and related equipment as needed to utilize existing equipment, modify applications, or resolve unusual problems.

Installs and maintains radio systems, antennas, transmission lines, power supplies, videos, microwave transmitters and receivers, alarm and signaling equipment, encoders and decoders, computer data systems, and other related communication systems.

Performs preventative maintenance for electronic control and signalizing equipment to minimize repair problems and to meet manufacturers’ specifications.

Reviews service contracts, evaluates and recommends equipment purchasing as assigned.

Provides training and maintenance instructions to operators or installers of specialized systems and equipment.

Operates a variety of computer systems designed to monitor and/or operate specific electronic and electrical systems.

Researches and prepares technical reports.

Maintains records on required and completed repair work.

By position, writes computer programs compatible with operating systems to expand functions.

By position, may be required to be on-call to address emergent needs.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

<table>
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<tr>
<th>Competencies</th>
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<tbody>
<tr>
<td>Attention to Detail - Is thorough when performing work and conscientious about attending to detail.</td>
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<tr>
<td>Customer Service - Interacts with customers in a friendly and professional manner, works to resolve issues quickly and effectively, and is knowledgeable about products and services.</td>
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<td>Oral Communication - Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.</td>
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<td>Reading - Understands and interprets written material, including technical material, rules, regulations, instructions, reports, charts, graphs, or tables; applies what is learned from written material to specific situations.</td>
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<td>Technical Problem Solving - Troubleshoots diagnoses, analyzes, and identifies system malfunctions to determine the source and cause of the problem.</td>
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<td>Technology Application - Uses machines, tools, or equipment effectively; uses computers and computer applications to analyze and communicate information in the appropriate format.</td>
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<tr>
<td>Writing - Writes in a clear, concise, organized, and convincing manner for the intended audience.</td>
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Knowledge & Skills

Knowledge of electrical equipment, components, instruments, and systems, including their design, installation, testing, uses, repair, or maintenance.

Knowledge of circuit boards, processors, chips, and computer hardware and software, including applications and programming.

Education Requirement

Graduation from high school or the possession of a GED, HiSET or TASC Certificate.

Experience Requirement

Three (3) years of current experience in electronic audio and digital equipment repair which must have included bench repair to the component level in radio transmitting and receiving equipment.

Education & Experience Equivalency

A combination of appropriate education and experience may be substituted for the minimum education and experience requirements.

Licensure & Certification

By position, requires a valid Driver’s License at the time of application.

By position, requires FCC General Radio Telephone Operator’s License by the end of the probationary period.

Licenses and certifications must be kept current as a condition of employment.

Working Environment

For DPL Positions Specifically:

Potential exposure to hazardous anesthetic agents, body fluids, and bio-wastes.
Atmospheric Conditions: conditions that affect the skin, eyes or respiratory system.
Potential exposure to cold temperature, cold enough to cause bodily discomfort.
Potential exposure to cold weather conditions (indoor/outdoor).
Potential exposure to conditions that affect the skin or respiratory system.
Potential exposure to dust.
Potential exposure to extreme temperature changes.
Potential exposure to hazardous conditions where there is a danger to life, body, and/or health.
Potential exposure to hazardous/toxic chemicals.
Potential exposure to hazards from electro/mechanical/power equipment.
Potential exposure to hazards of steam and heat.
Potential exposure to heat temperatures, hot enough to cause bodily discomfort.
Potential exposure to hot and humid work environment.
Potential exposure to housekeeping/cleaning agents/chemicals.
Potential exposure to infection from disease-bearing specimens.
Potential exposure to infections and contagious diseases.
Potential exposure to odorous chemicals.
Potential exposure to pesticides or fertilizers.
Potential exposure to the risk of blood borne diseases.
Potential exposure to temperature changes: variations in temperature from hot to too cold.
Potential exposure to temperature changes: variations in temperature from hot to cold.
Potential exposure to unpleasant elements (accidents, injuries, and illness).
Extreme cold conditions.
Handles emergency or crisis situations.
Noise sufficient to cause distraction or possible hearing loss.
Personal Safety: aware of surroundings, people, and events.
Pressure due to multiple calls and inquiries.
Subject to long, irregular hours.
Subject to many interruptions.
Subject to burns and cuts.
Subject to electrical and radiant energy hazards.
Subject to hazards of flammable or explosive gases.
Subject to injury from moving parts of equipment or vehicles.
Subject to precarious or high locations.
Subject to pressure for multiple calls, inquiries, and interruptions.
Subject to varying and unpredictable situations.
Subject to traffic, roadways, and pedestrians.
Subject to vibrations and strain on the body to cause bodily harm if endured daily.
Temperature Changes: variations in temperature from hot too cold.
Temperature Changes: variations in temperatures from hot too cold when works in field.
Wet: frequent contact with water or other liquid.
Wet: frequent contact with water, liquid, chemicals, or sanitary sewage.
Works in precarious or high locations.

<table>
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<td>For DPL Positions Specifically:</td>
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<tr>
<td>3-Medium (20-50 lbs.) to 4- Heavy Work (50-100 lbs.)</td>
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(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Agility: Ability to move quickly and easily.
Balancing: Maintaining equilibrium.
Carrying: Transporting or moving an object.
Climbing: Ascending or descending an object or ladder
Color Vision: Ability to distinguish and identify different colors..
Crawling: Moving about in a low or crouched position.
Crouching: Positioning body downward and forward.
Depth Perception: Ability to judge distances and space relationships..
Eye/Hand/Foot Coordination: Performing work through using two or more body parts or other devices.
Feeling: Perceiving attributes of objects by means of skin receptors, communication, or otherwise.
Field of Vision: Ability to sharply detect or perceive objects peripherally.
Fine Dexterity: Sufficient coordination to operate a vehicle and manipulate objects.
Fingering: Picking and pinching, through use of fingers or otherwise.
Handling: Seizing, holding, grasping, through use of hands, fingers, or other means.
Hazards: Conditions where there is danger to life, body and/or health..
Hearing/Talking: Perceiving and comprehending the nature and direction of sounds/ability to communicate ideas.
Hearing: Perceiving and comprehending the nature and direction of sounds.
Kneeling: Assuming a lowered position.
Lifting: By Position, may move objects 20-50 pounds, or 50-100 pounds from one level to another.
Neck Flexion: Perceiving objects located above or below.
Physical Strength: Exerts force to transport objects of 50 pounds [or insert appropriate weight] or more.
Pulling: Exerting force upon an object so that it is moving to the person.
Pushing: Exerting force upon an object so that it moves away from the person.
Reaching: Extending the hands, arms, or other device in any direction.
Repetitive Motions: Making frequent or continuous movements.
Sitting: Remaining in a stationary position.
Stamina: Ability to work over long periods of time without tiring.
Standing: Remaining in a stationary position.
Stooping: Positioning oneself low to the ground.
Talking: Communicating ideas or exchanging information.
Vision Far Acuity: Ability to perceive or detect objects clearly at 20 feet or more.
Vision Near Acuity: Ability to perceive or detect objects at 20 inches or less.
Walking: Ability to move or traverse from one location to another.
Written Comprehension: Ability to discern the meaning of written words.

### Background Check Requirement

Criminal Check
Employment Verification
By position, Motor Vehicle Record

### Assessment Requirement

None

### Probation Period

None

### Class Detail

Pay Grade: J-621
FLSA Code: N
Management Level: 10
Established Date: 9/21/2018
Established By: Lori Schumann
Revised Date:
Revised By:
Class History: