



CITY OF OMAHA CLASS SPECIFICATION

CLASSIFICATION TITLE: POWER SYSTEMS MECHANIC I

BARGAINING UNIT: [CIV BARGAINING](#)

CODE NUMBER: 6565

PAY RANGE CODE: [08140](#)

REVISION DATE: 10/26/17

NATURE OF WORK:

This is skilled work approaching the journey level involving the installation, maintenance, and repair of power systems and related electrical, electronic, and mechanical equipment at the municipal wastewater treatment plants, flood levee, and pump stations. Employees in this class perform minor installation, maintenance, and repair duties and assist with larger, more difficult projects.

ESSENTIAL FUNCTIONS: *(Any one position may not perform all the duties listed, nor do the listed examples include all the duties that may be performed in positions allocated to this class.)*

Inspects, maintains, repairs, and installs minor power system components or assists with major projects including the inspection, maintenance, repair, or installation of new power system components which include motor control centers, power distribution systems, motors, lighting panels and emergency lighting systems, switchgear, heating and air conditioning systems, refrigeration equipment, air dryers, boilers, heat recovery devices, wiring and conduit, and other electrical, electronic, and mechanical equipment.

Calibrates and maintains electronic monitoring and controlling devices which includes telemetry equipment, flow meters, gauges, gas detectors, and time delay circuits.

Reads and interprets wiring diagrams, blueprints, sketches, technical manuals, and specifications.

Assists in the ordering and procurement of repair and supply parts.

Prepares or assists in preparing daily reports, completing work orders, and maintaining preventive maintenance records.

Assists in determining installation, maintenance, or repair procedures and the equipment and materials needed to complete assigned projects.

Maintains regular job attendance in accordance with a schedule established for the position by the supervisor.

Performs other related duties as assigned or as the situation dictates within the scope of this classification.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of and ability to operate a computer or other technology using standard or customized computer or systems software applications appropriate to the assigned tasks.

Knowledge of the materials, tools and equipment, theory, methods, and techniques used in the electrical and electronic trades.

Knowledge of the occupational hazards and safety precautions necessary to perform safely in these trades.

Skill in performing installation, maintenance, and repair activities on electrical and electronic equipment.

Skill in the operation of the assigned tools and equipment.

Ability to read and interpret technical manuals, schematics, and blueprints of electric and electronic designs.

Ability to prepare reports, complete work orders and other forms, and maintain records.

Ability to understand oral and written instructions.

Ability to learn and adapt to advances in computer and electronics device technology and software.

Ability to adhere to safety policies, procedures, and guidelines.

Ability to establish and maintain effective working relationships with fellow employees and members of the general public.

Ability to stand and walk from 76 to 100% of the time; to climb, reach, and bend from 51 to 75% of the time; balance and stoop from 26 to 50% of the time; and squat, kneel, crouch, and crawl for up to 25% of the time.

Ability to move objects weighing up to one hundred (100) pounds up to 33% of the time; objects up to fifty (50) pounds from 34 to 66% of the time; and objects up to twenty (20) pounds from 67 to 100% of the time.

EDUCATION AND EXPERIENCE: *(The knowledge, skills, and abilities above may be acquired through, but are not limited to, the following combination of education and/or experience.)*

Education or training in electrical maintenance and repair

AND

Two (2) years of electrical maintenance experience in at least one of the following areas: pumps and motors, hydraulics, or pneumatics.

SPECIAL QUALIFICATIONS

Must possess and maintain a valid motor vehicle operator's license at the time of appointment.

Must possess a forklift operator's permit by the end of the probationary period.

WORKING CONDITIONS: *(The conditions herein are representative of those that must be met by the employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.)*

Work is performed primarily in and around industrial building sites involving working amid high noise levels, vibrating machinery, moving mechanical parts, electrical currents, working in high places and confined spaces, in conditions such as high humidity, fumes, odors, dust, mists, gases, and exposure to chemicals. Work may also be performed outdoors in all weather conditions.

EQUIPMENT OPERATION: *(Any one position may not use all of the tools and equipment listed nor do the listed examples comprise all of the tools and equipment that may be used in positions allocated to this classification.)*

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| Pickup Truck | Portable Pump |
| Electric Cart | Power Tools |
| Forklift | Megger |
| Band Saw | Multimeter |
| Drill Press | Ammeter |
| Grinder | Capacitance Analyzer |
| Air Compressor | Digital Frequency Meter |
| Jackhammer | Telemetry Test Instruments |
| Power Threader | Self-contained Breathing Apparatus |
| Oscilloscope | Welders and Torches |
| Phase Sequencer | Battery Chargers |
| Signal Generator | Overhead Crane |
| Signal Tracer | Hoist |
| Computer | Printer |
| Copier | |

Previous Revision Date(s): 9/24/92
11/21/02