

<b>CITY OF CEDAR RAPIDS POSITION PROFILE</b>	<b>JOB CODE #/TITLE:</b> AF047 WPC Electrician I
<b>POSITION #/TITLE:</b> 1043 Water Pollution Control Electrician I	<b>Adopted:</b> 07-97 <b>Revised:</b> 10-14

**POSITION DESCRIPTION**

<b>Dept/Division:</b> Utilities/Water Pollution Control	<b>Manager Level:</b> Non-Manager
<b>Salary Plan/Description:</b> AFS/AFSCME	<b>Salary Grade:</b> 28
<b>Reports To Position #/Job Code #/JC Title:</b> 0602/NB198/WPC Electrician Systems Supv	<b>Dotted-line Reports To Position #/Job Code #/JC Title:</b>
<b>FLSA Status:</b> Non-Exempt	<b>City Overtime Status (Employee Type):</b> Non-Exempt (Exception Hourly)
<b>Physical Demand Rating:</b> Very Heavy	<b>Work Environment:</b> Uncontrolled
<b>Pre-employment Testing:</b> Drug and health screening after contingent offer.	<b>Position Testing:</b> Health screening, Use of SCBA, Physical Qualifications Test, Job Knowledge Test
<b>Personal Protective Equipment:</b> Eye, Face, Hand, Head, Face, Hearing, Protective Clothing, Respirator, Gas Monitor	

**General Statement of Duties**

Provides technical services in the area of electrical repair, installation, maintenance and troubleshooting.

**Distinguishing Features of the Class**

Work is performed under general supervision, with the ability to exercise discretion in selection of work method and schedule.

**Examples of Essential Work (Illustrative Only)**

Installs, repairs and maintains electrical distribution systems, motors, variable frequency drives, and other electrical equipment of a wastewater treatment plant and lift stations;  
 Troubleshoots malfunctions of electrical and pneumatic control components of facility equipment, as well as motor control circuits and medium voltage switch gear;  
 Reviews plans for new installations;  
 Requisitions equipment and supplies as required;  
 Performs emergency repair services as needed;  
 Consults with senior personnel with respect to electrical installations;  
 Maintains records;  
 Attends shop staff and safety meetings;  
 Wears and properly uses safety equipment including personal protective, fall protection equipment, self-contained breathing apparatus, and gas detection equipment;  
 Performs all work duties and activities in accordance with City policies, procedures and safety practices;  
 Attends work regularly at the designated place and time;  
 Supports continuous process improvement initiatives;  
 Performs related work as required.

**Required Knowledge and Abilities**

Knowledge of basic electricity theory, electrical safety, circuit design, functions of transformers and associated electrical equipment;

Knowledge of functions of specific electrical equipment utilized in wastewater collection and treatment processes and its operation and maintenance;  
Knowledge of OSHA permit-required confined space entry protocol, respiratory protection standards, right-to-know laws, CPR, and First Aid;  
Skill in reading and writing the specialized vocabulary of wastewater treatment;  
Skill in accurately performing intermediate-level mathematical computations;  
Skill in reading electrical schematics;  
Skill in methods and techniques of electrical system installation, maintenance and repair, particularly as applied to wastewater treatment and collection equipment and programs;  
Ability to properly utilize the following equipment and tools: personal protective equipment, gas detectors, fall protection equipment and self-contained breathing apparatus, meters and testing instruments, electric and acetylene welders, hand tools, vibration analyzer, cutting torch, electric hammer and drills, fork-lift, overhead bridge crane, conduit benders, wire pulling equipment;  
Ability to perform confined space entry, including rescue, using permit-required protocol;  
Ability to work under general supervision and exercise some discretion in work method and schedule;  
Ability to work cooperatively and to maintain effective working relationships to accomplish job responsibilities;  
Ability to quickly learn and put to use new skills and knowledge brought about by rapidly changing information and/or technology;  
Ingenuity and inventiveness in the performance of assigned tasks.

#### **Acceptable Experience and Training**

Requires completion of two years of electrical apprenticeship or an Associate's Degree in industrial maintenance, electrical or electronic engineering; and  
Four years experience as an electrician in an industrial setting with emphasis on motor controls and 480-volt 3-phase and higher power circuits may be substituted for schooling and apprenticeship; or  
any combination of experience and training which provides the knowledge and abilities necessary to perform the work.

#### **Required Special Qualifications**

Valid Iowa Driver's License upon appointment.

#### **Essential Physical Abilities**

Requires the following, with or without reasonable accommodation:  
Clarity of speech and hearing which permits the employee to communicate effectively;  
Sufficient vision which permits the employee to operate equipment and tools;  
Sufficient manual dexterity which permits the employee to operate equipment.