Bargaining Unit:

02

FLSA:

Covered

Position Number:

06990

TRAFFIC SIGNAL AND LIGHTING TECHNICIAN

DEFINITION

Under general direction, to perform a variety of skilled work in the maintenance, operations, and repair of City traffic signals and street lighting systems and equipment; and to do related work as required.

DISTINGUISHING CHARACTERISTICS

This is a specialized, skilled classification for the operation, maintenance, and repair of City traffic signals and street lighting systems.

REPORTS TO

Public Works Manager-Utilities and/or Director of Public Works Operations

CLASSIFICATIONS SUPERVISED

This is not a supervisory classification.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES (The following is used as a partial description and is not restrictive as to duties required.)

Inspects traffic signals and street lighting systems and components to verify proper operation and identify maintenance and repair requirements.

Plans and initiates repair projects.

Installs power supply wiring and conduit for newly installed traffic signal and street lighting equipment.

Connects power supply to controllers.

Diagnoses problems with system components, such as transformers, controllers, loop amplifiers, and photoelectric sensors.

Diagnoses problems and repairs printed circuit boards.

TRAFFIC SIGNAL AND LIGHTING TECHNICIAN - 2

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES (continued)

Tests, adjusts, and maintains computerized control and timing systems.

Reviews plan, layouts, and schematics of systems in performing diagnostic, preventive maintenance, and repair work.

Responds to emergency situations for the correction of malfunctioning systems.

Uses a variety of specialized testing and diagnostic equipment.

Overhauls electrical and computerized systems and components.

Orders parts and supplies needed for maintenance and repair projects.

Carries out preventive maintenance programs.

Operates a variety of hand and power tools.

Performs a variety of maintenance, repair, and construction assignments.

TYPICAL PHYSICAL REQUIREMENTS

Occasionally sits; frequently stand, walk, stoop, kneel, and crouch; normal manual dexterity and eye-hand coordination; ability to lift and move objects weighing up to 50 pounds; corrected hearing and vision to normal range; verbal communication; use a variety of hand, power, and testing equipment used in the maintenance of computerized traffic signal and street lighting systems; use a computer and telephone.

TYPICAL WORKING CONDITIONS

Work is performed both indoors and outdoors in varying temperatures and weather conditions; some assignments may be performed in a shop or office; exposure to hazardous materials, smoke, gasses, and fumes; exposure to hazards such as moving machine parts and electrical current; noise level in the work environment is usually loud; continuous contact with other staff.

TRAFFIC SIGNAL AND LIGHTING TECHNICIAN - 3

DESIRABLE QUALIFICATIONS

Knowledge of:

Principles, methods, and practices pertaining to problem identification, maintenance, and repair of traffic signal and street lighting systems.

Electrical and computer testing and calibration equipment.

Record keeping and reporting procedures.

Practices, tools, equipment, and materials used in the electrical trade.

Principles and methods of preventive maintenance programs.

Safe work practices and procedures.

Ability to:

Perform a wide scope of assignments in problem identification, maintenance, and repair of traffic signal and street lighting systems.

Inspect traffic signal and street lighting equipment and systems for proper and safe operating conditions.

Skillfully use a variety of hand and power tools and specialized testing equipment in the maintenance, testing, and repair of traffic signal and street lighting systems.

Maintain accurate records and reports.

Deal tactfully and courteously with the public.

Establish and maintain cooperative working relationships.

Training and Experience:

Any combination of training and experience likely to provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Graduation from high school or equivalent, and three (3) years of experience in performing a variety of traffic signal and street lighting system testing, maintenance, and repair work. <u>Highly desirable</u>: International Municipal Signal Association Certification for Traffic Signal Technician Level I, II, or III.

Necessary Special Requirements:

Possession of an appropriate California Driver's License. Must obtain certification by the International Municipal Signal Association as a Traffic Signal Technician Level I within twelve (12) months of employment.

TRAFFIC SIGNAL AND LIGHTING TECHNICIAN - 4

Reference: City of Merced Personnel Rules and Regulations, Sections 5.05 and 5.07.

The contents of this class specification shall not be construed to constitute any expressed or implied warranty or guarantee, nor shall it constitute a contract of employment. The City of Merced assumes no responsibility beyond the general accuracy of the document, nor does it assume responsibility for any errors or omissions in the information contained herein. Terms and conditions of employment are determined through a meet and confer process and are subject to the Memorandum of Understanding currently in effect.

APPROVED

Chairperson, Personnel Board

DATE: February 14, 2005