CITY OF ST. LOUIS
CLASSIFICATION SPECIFICATION

CLASSIFICATION TITLE: Traffic Engineer (Senior)

CLASS CODE: 4282

GENERAL DESCRIPTION OF DUTIES:

Incumbents study traffic patterns and volume, design traffic control systems, and program and maintain traffic control devices.

DISTINGUISHING CHARACTERISTICS:

This is a journey-level professional classification in the General Engineering Series – Traffic Engineering Group job family within the City of St. Louis. Incumbents perform a variety of moderately complex duties. The distinguishing characteristics of this classification within the series include responsibility for performing traffic studies, designing control systems and programming and maintaining traffic control devices.

Incumbents work under general supervision. While workers require some supervision in most assignments, they are free to develop their own work sequences within established procedures, methods and policies. They are generally subject to periodic supervisory checks.

This is an individual contributor class, meaning the incumbent is responsible for his/her own work including output, quality and timeliness. Incumbents may, however, explain work processes and train others, such as new employees, in the same or similar job title. The individual contributor may serve as a resource or guide by advising others on how to use processes within a system or as a member of a collaborative problem-solving team.

EXAMPLES OF WORK (Illustrative Only):

(The list of duties is intended to be representative of the duties performed in positions within this classification. It does not include all the duties that may be assigned to a position and is not necessarily descriptive of any one position in this class.)

Studies traffic volume and patterns and recommends traffic control measures, sign placement, devices and systems.

Participates in planning for traffic control and flow. Meets with developers, city officials, consultants, contractors and the general public.

Provides testimony and correspondence regarding traffic accidents.

Programs and tests traffic control computers and signals. Inspects rebuilt traffic signals, repairs traffic signals and controllers.

Implements in-house signal/system maintenance and construction methods. Establishes maintenance standards.

Trains signal technicians.

Researches funding opportunities and applies for funding for traffic engineering functions.

Maintains records for traffic control system and traffic studies.

Receives and responds to traffic complaints from the public, city officials and city employees.

Performs other duties as assigned.

KNOWLEDGE, SKILLS AND ABILITIES:

Data Utilization:

Requires the ability to perform mid-level data analysis including the ability to audit, deduce, assess, conclude and appraise. Requires discretion in determining and referencing such to established criteria to define consequences and develop alternatives.

Human Interaction:

Requires the ability to provide guidance, assistance and/or interpretation to others, such as co-workers, city officials, other city departments and the public, on how to apply policies, procedures and standards to specific situations.

Equipment, Machinery, Tools and Materials Use:

Requires the ability to operate, maneuver and/or provide simple but continuous adjustment on equipment, machinery and tools such as computer terminal, traffic counter, signal controllers test equipment, telephone, motor vehicle, fax machine, telephone and/or materials used in performing essential functions.

Verbal Aptitude:

Requires the ability to utilize a variety of advisory data and information such as signal designs, diagrams, schematics, maps, street guides, accident reports, complaints, requisitions, grant applications, traffic studies, computer software and hardware operating manuals, signal design manuals, technical specifications, ordinances, statutes, procedures, guidelines and non-routine correspondence.

Mathematical Aptitude:

Requires the ability to perform addition, subtraction, multiplication and division; calculate percentage and decimals, interpret and develop descriptive statistical reports; perform mathematical operations involving advanced geometry.

Functional Reasoning:

Requires the ability to apply principles of rational systems. Ability to interpret instructions furnished in written, oral, diagrammatic or schedule form. Ability to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objective.

Situational Reasoning:

Requires the ability to exercise the judgment, decisiveness and creativity required in situations involving the evaluation of information against measurable or verifiable criteria.

Environmental Factors:

Tasks may risk exposure to adverse environmental conditions, such as temperature and noise extremes, machinery electric currents and traffic hazards.

Physical Requirements:

Requires the ability to lift, push and pull tools and equipment to repair signals and controllers.

Requires the ability to stoop while working on signal cabinets.

Sensory Requirements:

Requires the ability to recognize and identify similarities or differences between characteristics of colors to determine signal lights, shapes to clearly distinguish objects and sounds to detect dangerous traffic conditions.

The City of St. Louis is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City of St. Louis will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the City.