

## TRAFFIC ENGINEER I

### NATURE OF WORK

This is professional entry level traffic engineering work assisting in a variety of traffic engineering projects.

Work involves responsibility for the application of professional traffic engineering skills and knowledge assisting in traffic engineering projects in connection with the development of plans for facilitating traffic movement, accident prevention, street lighting and related traffic engineering activities. Work assignments afford limited opportunity for independent judgment in planning work or in making technical decisions. This class is differentiated from higher level classifications in that employees hired at this class are generally inexperienced. Upon demonstration of professional level traffic engineering skills and knowledge an employee may be promoted to a higher level classification. Supervision may be exercised over several technical subordinates. General supervision is received during progress of work, and a careful final check is made by a professional superior.

### EXAMPLES OF WORK PERFORMED

Prepares preliminary designs, project plans, specifications and cost estimates for a variety of traffic engineering projects such as street design, traffic signal installations and modifications, driveway and parking lot plans, and other transportation projects.

Performs and evaluates traffic engineering studies such as spot speed, traffic delay, traffic safety and traffic flow studies to determine specific needs.

Prepares written reports of traffic engineering studies.

Inspects transportation projects, equipment and installations to ensure compliance with plans and specifications.

Assists in the operation of the traffic signal computer system.

Reviews engineering plans and specifications for accuracy of computations and compliance with project objectives.

Receives and answers complaints from the public; receives requests for the installation of traffic signs, traffic signal lights and related traffic control devices.

Supervises several technical and sub-professional employees. Assists in the development of annual budget. Administers a section of the traffic engineering division under the supervision of the City Traffic Engineer.

Performs related work as required.

### DESIRABLE KNOWLEDGES, ABILITIES AND SKILLS

Knowledge of the principles and practices of traffic engineering.

Knowledge of the modern traffic engineering principles and practices of traffic surveying methods.

Knowledge of the principles, practices and techniques of engineering drafting.

Knowledge of statistical analysis, geometric design and other engineering mathematics as they relate to traffic engineering.

Knowledge of traffic flow theory and signal timing principles.

Knowledge of the principles of electrical theories as they relate to the operation of traffic signal control devices.

Ability to interpret construction specifications and designs and make construction and material estimates.

Ability to establish project parameters and develop specifications and schedules.

Ability to organize and conduct specific phases of traffic engineering studies under general direction of a professional superior.

Ability to establish and maintain effective working relationships with associates, subordinates, municipal officials and the general public.

Ability to prepare written correspondence and reports under direction of supervisor.

#### DESIRABLE TRAINING AND EXPERIENCE

Graduation from an accredited four year college or university with major course work in traffic, civil or electrical engineering, and some experience in traffic engineering.

#### MINIMUM QUALIFICATIONS

Graduation from an accredited four year college or university with major course work in traffic, civil or electrical engineering or any equivalent combination of training and experience which provides the desirable knowledges, abilities and skills.

#### DESIRABLE SPECIAL REQUIREMENT

Possession of a valid Nebraska Engineer-in-Training certificate.