

TRANSPORTATION SPECIALIST

General Statement of Duties and Responsibilities

This is a professional supervisory class of positions involved in the supervision of a squad, section or unit conducting transportation and traffic studies. There are three Assignment Levels within this class of positions. All personnel perform related work. Personnel may perform the duties of subordinates, as needed. Personnel may also perform the duties of the supervisor in that person's temporary absence. The following are typical assignments within this class of positions.

Assignment Level I

Under general supervision, in the field or the office, carries out, and supervises staff conducting professional transportation and traffic projects, studies and investigations.

Examples of Typical Tasks

Performs traffic work of moderate difficulty in such specialized fields as traffic control, parking, signals, communications, construction and maintenance. Uses computers to collect and analyze information.

Participates in studies to determine the need for, type, size, location and use of proposed additional metered and non-metered parking facilities; develops standards and specifications for facilities and equipment; tests traffic and other equipment utilized in the operation, repair, and maintenance of parking facilities.

TRANSPORTATION SPECIALIST (continued)

Assignment Level I (continued)

Examples of Typical Tasks (continued)

Develops and maintains the city's extensive network of Real Time Passenger Information (RTPI) and Wayfinder systems.

Conducts, or directs a group conducting, surveys, studies and investigations of traffic conditions to develop ways and means of reducing congestion, and crashes, and to improve the operation of transportation facilities.

Conducts, or directs a group conducting transportation and traffic studies on conditions, problems, changes, and improvements relating to such matters as traffic safety, access, circulation, density, flow, speeds, crashes, volume, volume/capacity analysis, vehicle occupancy, roadway inventory, pedestrian conditions, transit priority, and the use of electronic detection, control and recording equipment.

Analyzes traffic volume counts and makes recommendations to increase the capacity of roadways and arterial streets in a specified area of the city.

Recommends temporary routing and detours of traffic.

Participates in studies for traffic signal installation, modernization, and signal timing schedules for isolated, arterial and grid coordinated signal installations.

Studies and makes recommendations on commercial routes, bus routes, bus stops, taxi stands, and special curb permits.

Analyzes transportation and traffic data.

TRANSPORTATION SPECIALIST (continued)

Assignment Level II

Under direction, supervises a large unit or a group of units engaged in difficult, complex and responsible transportation and traffic projects, studies and investigations, in addition to performing the duties described under Assignment Level I, performs tasks such as the following:

Examples of Typical Tasks

Develops and maintains the city's extensive network of Transit Signal Priority (TSP), Real Time Passenger Information (RTPI) and Wayfinder systems.

Supervises work in such areas as traffic estimation, generation and diversion, urban traffic characteristics, cost benefit analysis, sufficiency ratings, and functional efficiency of transportation systems.

Supervises the forecasting of future traffic developments and patterns based on analyses of data from transportation and traffic studies.

Develops procedures and methods applicable to accessibility and the conduct of transportation and traffic projects, studies, and investigations.

Prepares and supervises the preparation of reports.

TRANSPORTATION SPECIALIST (continued)

Assignment Level III

Under general direction, with wide latitude for the exercise of independent judgment and unreviewed action, directs the work of several groups of subordinate employees and/or provides expertise to managerial staff involved in the planning, development and execution of complex transportation studies and programs, including comprehensive studies and utilization of existing street and roadway systems, or functional changes thereto; determines and makes recommendations for the amelioration of traffic conditions in the City.

Examples of Typical Tasks

Supervises the activities of several groups conducting transportation and traffic studies.

Supervises the preparation of cost-benefit analyses to determine the economic feasibility of proposed transportation facilities and to appraise the existing street and transportation system.

Supervises the development of mathematical models of traffic flow conditions and subsequent use of such models in electronic computer traffic simulation studies.

Serves as an expert in the planning, development, and execution of major transportation studies including studies and investigations of the economic pattern of roadway transportation, facilities and their relationship to other forms of transportation, and studies of traffic capacity factors under metropolitan conditions providing special technical aid in the development of methods and means for improving street and operational efficiencies.

Develops complex traffic simulation models and Transit Signal Priority (TSP) projects throughout New York City.

TRANSPORTATION SPECIALIST (continued)

Assignment Level III (continued)

Examples of Typical Tasks (continued)

Supports Citywide traffic and pedestrian initiatives.

Reviews cost proposals and contract documents.

Translates program policy into specific projects, determines priorities, guides, and provides expert technical assistance to subordinate employees with regard to such projects.

Advises managerial staff on policy and operational issues.

Reviews and analyzes reports presenting data and recommendations for major traffic facilities and other traffic improvements within the City.

Determines procedures to be used in the collection of data and analysis of critical periods of traffic flow and congestion duration problems, and recommends methods for the amelioration of these conditions. Approves methods and procedures for area-wide application in the development of traffic estimates. Develops systems and procedures to statistically estimate vehicle-miles of travel in the City.

Develops a street classification system and a sufficiency index system for the City.

Develops methods and procedures for correlating population developments, and transportation demands.

Supervises the preparation and submission of grant applications for transportation studies, serves as liaison with grantor agencies.

Determines studies required, evaluates and reviews results, concerning commuter travel habits and the development and location of transportation facilities.

TRANSPORTATION SPECIALIST (continued)

Qualification Requirements

1. A master's degree in transportation planning, transportation engineering, mathematics, urban planning, architecture, landscape architecture, urban studies, or related physical and social science fields; or
2. A baccalaureate degree in engineering from an accredited college and one year of full-time satisfactory experience performing technical work on roadway transportation and traffic studies and area-wide traffic programs; or
3. A baccalaureate degree from an accredited college and two years of full-time satisfactory experience as described in "2" above; or
4. An associate degree or completion of 60 semester credits from an accredited college and four years of full-time satisfactory experience as described in "2" above; or
5. A four-year high school diploma or its educational equivalent and six years of full-time satisfactory experience as described in "2" above.

SPECIAL NOTE

In addition to meeting the minimum Qualification Requirements above:

To be assigned to Assignment Level II, the candidate must have an additional year of experience as described in the "Qualification Requirements" listed under "2" above. To be assigned to Assignment Level III, the candidate must have an additional two years of experience as described in the "Qualification Requirements" listed under "2" above.

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HIGHWAY TRANSPORTATION
OCCUPATIONAL GROUP [169]

CODE NO. 22316

TRANSPORTATION SPECIALIST (continued)

Direct Lines of Promotion

From: Assistant
Transportation Specialist
(22306)

To: Administrative Transportation
Coordinator (M 10061)