

**CLASS SPECIFICATION**  
**SAN DIEGO CITY CIVIL SERVICE COMMISSION**  
**ASSOCIATE ENGINEER – TRAFFIC - 1233**

**DEFINITION:**

Under direction, to plan and supervise a functional area of traffic engineering or transportation planning; to perform the more difficult phases of traffic engineering and transportation planning; and to perform related work.

**\* EXAMPLES OF DUTIES:**

- Assigns and reviews the work of professional and subprofessional personnel in developing forecasting programs and community plan transportation elements, designing plans, preparing and developing functional specifications for street lighting and traffic control devices, devising methods of control including signals, signs, and other control devices, conducting traffic surveys and assembling related data, and performing related studies and designs;
- Performs traffic accident, transportation systems oversight, and traffic safety analyses, field surveys, and studies of existing statistical data;
- Prepares complicated traffic signal timing schedules using SYNCHRO and diagrams and evaluates results obtained following installation of timing schedules;
- Assists with developing programs such as the bicycle program, traffic signal management, right-of-way coordination, mobility planning, capital improvement program, and traffic safety plan checks;
- Interprets traffic engineering data;
- Conducts complex traffics studies;
- Develops the transportation circulation/mobility element of community plans;
- Coordinates or confers with other departments, agencies, contractors, and citizen groups;
- Prepares and presents detailed and comprehensive reports to other agencies;
- Trains and evaluates the work performance of subordinates.

**MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

College graduation with a Bachelor's Degree in Traffic, Civil, Electrical Engineering, or a closely related field, **OR** certification as an Engineer-in-Training issued from a State licensing board, **OR** registration as a professional Traffic, Civil, or Electrical Engineer with a State licensing board; **AND** three years of full-time professional traffic engineering or

- \* EXAMPLES OF DUTIES performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.**

transportation planning experience which must include one year of full-time professional journey-level experience at a level equivalent to an Assistant Engineer-Traffic with the City of San Diego (a position that produces travel forecasts; performs traffic accident analyses, field surveys, and studies of statistical data; recommends changes to striping, pavement markings, signage, and parking to facilitate safe and efficient traffic flow; and reviews traffic signal and traffic control plans). Qualifying professional experience must include at least one of the following options: 1) Conducting traffic engineering analyses, preparing reports, or reviewing plans on striping, pavement marking, street and intersection capacity, parking signing, traffic surveys, traffic safety, or traffic control work zones. 2) Transportation plan review of subdivision maps, state highway plans, environmental impact reports, community plans, public improvement plans, or other plans or documents. 3) Travel forecasting and transportation and mobility planning analyses which include network analysis and the use of transportation planning software (e.g., TRANSPLAN/TRANSCAD or equivalent transportation modeling software, HCS, SYNCHRO) to analyze future transportation system and mobility needs. 4) Traffic signal or street light planning, design, operations, and inspections, including signal timing diagrams and schedules.