

July 1, 1999

CLASS SPECIFICATION

SAN DIEGO CITY CIVIL SERVICE COMMISSION

JUNIOR ENGINEER-CIVIL

DEFINITION:

Under immediate supervision, and in training capacity, to perform increasingly responsible professional engineering work with responsibility for the planning or design of a routine or minor engineering project, or for one or more phases of a more complex project; to perform routine construction inspection; to check the less complex building, public improvement, and land development plans; and to perform related work.

*** EXAMPLES OF DUTIES:**

- Calculates distances, ties, angles, traverses, and closures;
- Computes quantities and prepares cost estimates;
- Determines grades and alignments;
- Computes water and sewer flows and capacities;
- Draws construction plans and property maps;
- Works on assigned phases of major engineering projects, and may do the drafting for such design projects;
- Prepares specifications;
- Inspects municipal public works construction for compliance with contract requirements;
- Tests construction materials for conformance to contract requirements;
- Reviews the less complex building, public improvements and land development plans for conformance to building regulations;
- Calculates structural adequacy;
- Consults with architects and contractors regarding required plan modifications;
- Performs traffic investigations, studies, and routine transportation planning work;
- Performs reservoir, water treatment, and wastewater treatment plant operational studies;
- Prepares various engineering reports;
- Updates and maintains various engineering maps and records.

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 Announcement for updated minimum qualifications.

A Bachelor's degree in Civil Engineering or a related engineering field; **OR** registration as a professional Civil, Structural or Traffic Engineer with a State Licensing Board; **OR** certification as an Engineer-in-Training.

- * **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.