

**CLASS SPECIFICATION**  
**SAN DIEGO CITY CIVIL SERVICE COMMISSION**  
**JUNIOR ENGINEER-CIVIL - 1546**

**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 Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

- \* 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.**

Graduating senior in the final semester or quarter of a Civil Engineering or closely related engineering degree program; **OR** Bachelor's degree in Civil Engineering or a closely related engineering field; **OR** Engineer-in-Training (EIT) Certificate issued from a State licensing board; **OR** registration as a professional Civil, Structural, or Traffic Engineer with a State licensing board. Possession of a valid California Class C Driver's License.