

ENGINEERING TECHNICIAN I

NATURE OF WORK IN THIS CLASS:

This is moderately complex technical engineering and surveying work.

Employees in this class perform complex technical engineering or surveying work independently after initial training and work under closer supervision on a variety of more complex developmental assignments.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed).

Prepares clear, complete, and accurate working plans and detailed drawings from rough or detailed sketches or notes for engineering purposes according to specified dimensions.

Serves as chief of survey party.

Prepares material estimates for job orders for the construction, maintenance and repair and alteration under electrical, telephone, environmental or civil engineering.

Operates a transit and level in making construction lines; sets grades stakes, and places cut and fill stakes; leads subordinate engineering aides assigned to routine survey work.

Analyzes engineering sketches, specifications and related data and drawings to determine design factors such as size, shape, and arrangement of parts.

Performs inspection of structures and materials on construction projects to ensure compliance with standard practices.

May lead engineering aides in the preparation of cost reports on completed construction projects and periodic estimates as a basis of payment to contractors; investigates, prepares and updates all records, maps and drawings.

May lead and/or conduct field and laboratory sampling and testing of construction materials.

Maintains transits, levels, and other equipment used in control traverse, as built cadastral, and property survey work.

Performs related duties as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the principles and practices of engineering as applied to drafting and minor design.

Knowledge of the principles and practices of land surveying.

Knowledge of the policies, procedures and practices of departmental standards concerning inspection and material testing.

Ability to perform land survey work or complex drafting and beginning level design assignments.

Ability to make arithmetic and trigometric calculations.

Ability to use survey or drafting equipment with accuracy.

Ability to understand and interpret engineering plans and specifications.

Ability to lead the work of others.

Ability to follow accurately brief oral and written instructions.

Ability to work effectively with the public and employees.

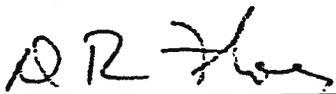
Skill in the use and care of surveying and drafting equipment and instruments.

MINIMUM EXPERIENCE AND TRAINING:

(a) Two years of experience in sub-professional engineering and/or surveying work and graduation from high school supplemented by courses in drafting or surveying and mathematics; or

(b) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

ESTABLISHED: JULY, 1980



DAVID R. FLORES, Executive Director
Civil Service Commission

Pay Grade I Step 1: \$21,389 - Step 10: \$32,083