

ENGINEERING TECHNICIAN II

Class Definition

Under supervision, performs technical engineering work in the field or office involving drafting, land surveying and related tasks.

Distinguishing Characteristics

Engineering Technician II is the journey-level class in the Engineering Technician series. Incumbents perform engineering computations, drafting and land surveying- duties. This class is distinguished from Engineering Technician I in that incumbents of the latter work under close supervision. It is distinguished from Senior Engineering Technician in that the latter is the advanced working level class in which incumbents may act in a lead capacity and perform more difficult technical civil engineering assignments. The Engineering Technician series differs from the Engineering Aide series in that incumbents of the latter generally perform field-related manual tasks similar to assisting in a survey crew or conducting traffic counts.

Typical Tasks

(An incumbent may not be assigned all duties listed, nor do the examples cover all duties which may be assigned.)

Performs technical engineering and cost computations, prepares plans and specifications under supervision or from pre-determined standards, and prepares sketches and exhibits.

Performs drafting and map making duties related to engineering projects, including special planning projects, land-use studies, zoning matters, traffic engineering studies, and land division entitlement map processing.

Prepares and reviews legal descriptions under the responsible charge of a professional engineer licensed to perform land surveying by the State of California.

Prepares routine drawings from field notes; reduces field notes; plots and checks plan views, profiles and cross sections; performs routine engineering computations.

Assists in the preparation of development agreements.

Performs engineering calculations, cost estimates and fee calculations relative to Public Works improvements.

Performs on-site posting of legal notices

Performs related duties as required.

Knowledge, Abilities, and Skills

Knowledge of engineering techniques and practices sufficient to enable one to perform and survey work and to prepare engineering maps, etc.

Knowledge of land division processes and records.

Knowledge of mathematical through trigonometry.

Knowledge of engineering maps, records, symbols and nomenclatures.

Knowledge of data processing equipment and formatting.

Ability to perform precise land survey work, engineering computations, reduce field notes and skilled drafting.

Ability to interpret and work from oral and written instructions and sketches.

Ability to interpret and write property descriptions.

Ability to communicate effectively, both orally and in writing.

Ability to operate a motor vehicle safely.

Ability to establish and maintain effective working relationships with co-workers and the public.

Skill in the use of engineering drafting and land surveying instruments.

Skill in the use of programmable calculators to run traverse closures.

Minimum Qualifications

One year of experience equivalent to that gained as an Engineering Technician I with the City of Fresno

Necessary Special Requirements

Possession of a valid California Driver's License at time of appointment.

APPROVED: (Signature on file)
Director of Personnel

DATE: 10/02/90

MR/MPA/co/10/02/90
+200/SPEC3