

ENGINEER I

NATURE AND VARIETY OF WORK

This is entry level professional work in the engineering fields (e.g., civil, transportation, fire protection, or environmental) responsible for the application of basic engineering skills, principles and practices to a wide variety of public works, transportation, construction, and related projects. Assignments include both field and office work, affording the opportunity for limited exercise of independent planning, judgment and technical decision-making under the close supervision of a professional engineer of a higher level. Position incumbents may coordinate the activities of subordinate level para-professional and technical personnel. Work is evaluated relative to effectiveness in the accomplishment of departmental goals and objectives.

Upon the satisfactory completion of a probationary period, entry-level incumbents may be non-competitively promoted to the II full performance level at management's discretion.

EXAMPLES OF WORK (ILLUSTRATIVE ONLY)

Participates in the preparation of specifications, plans estimates and reports involved in the design, construction, maintenance and operation on a wide variety of projects.

Using prescribed methods, performs specific and limited portions of a broader assignment of a higher level engineer.

Responsible for a wide range of studies and data collection used in the development of programs, projects and operations for the department.

Applies standard practices and techniques in specific situations, adjusts and correlates data, recognizing discrepancies in results, and follows operations through a series of related detailed steps or processes.

Provides input into the development of comments and recommendations on zoning, special exceptions, comprehensive design zones, master plans, transit facilities, metrorail and metrobus alignments, routes, streets, highways and bridge designs and other projects.

Assists in the analysis and examination of building plans submitted for compliance with codes and ordinances.

Willingly and cooperatively performs tasks and duties which may not be specifically

listed in the class specification or position description, but which are within the general occupational category and responsibility level typically associated with the employee's class of work.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES

Knowledge of and ability to adapt principles, methods and techniques of the engineering field required for the position.

Skill in applying knowledge of precedents, guides and techniques.

Ability to use sound professional engineering judgment to review plans, prepare specifications and reports.

Ability to effectively communicate, both orally and in writing, with a wide variety of individuals with varying levels of knowledge and involvement with the project.

Ability to coordinate the work of para-professional and technical engineering personnel.

MINIMUM QUALIFICATIONS

Bachelor's degree in the engineering field (civil, transportation, architectural, mechanical, fire protection, agricultural, agronomy, etc.) as determined by the requirements of the position or any equivalent combination of four (4) years of relevant education and experience that provides knowledge of the modern principles and practices of the engineering professional identified.

DESIRABLE QUALIFICATIONS

Engineer in Training certificate.