

ENGINEERING TECHNICIAN

GENERAL STATEMENT OF DUTIES: Under general supervision of professional engineer, acts as Chief of Party on an engineering survey team and performs difficult sub-professional engineering work; does related work as required.

DISTINGUISHING FEATURES OF THE CLASS: This position involves the performance of sub-professional work in the collection of the necessary engineering data for the making of maps and the planning of public works facilities. This work does not require a surveyor's license. Supervision may be exercised over a small number of personnel assigned to the survey party.

EXAMPLES OF WORK: (Illustrative Only)

Leads a survey party in making field surveys for property line work; topographical mapping for utility and road planning, staking out work for construction, location work for public facilities and quantity estimating;

Establishes lines, points, and grades;

Computes and plots property lines;

Describes and checks easements and property line maps and prepares them for public filing;

Plots topography and facilities, makes profiles of required features;

Searches public records for details of land holdings;

Keeps field notes of surveys, makes necessary base line or property line and does other computations;

From various survey field notes supplies engineer in charge of project with data for the preparation of monthly and final quantity estimates;

Reads and interprets maps, construction plans and drawings in connection with survey party work;

Supervises the care and maintenance of expensive and sensitive survey instruments and of crew's truck;

Trains new members of survey party.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES, AND ATTRIBUTES: Good knowledge of the techniques and practices of field surveying and land computations; working knowledge of mathematics essential to the use of surveying instruments; good knowledge of engineering office practices and mathematics; familiarity with general construction specifications and blueprints; ability to prepare neat drawings and sketches; ability to supervise the work of others; initiative; resourcefulness; physical condition commensurate with the duties of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Either: (a) graduation from high school or possession of a high school equivalency diploma and four years of responsible experience in engineering project work which shall have included field surveying, land computation and quantity estimating; or (b) graduation from a two-year post high school course in construction technology and two years of responsible experience in engineering project work which shall have included field surveying, land computation, and quantity estimating; or (c) graduation from a recognized college or university with a bachelor's degree in civil engineering; or (d) a satisfactory equivalent combination of the foregoing training and experience.