

SURVEY TECHNICIAN II

NATURE AND VARIETY OF WORK:

This is supervisory level technical and para-professional work surveying land for the design and construction of highways, bridges and other projects. Incumbents function as a survey party chief and operates a variety of surveying instruments. Work is performed under general supervision. Work performance is evaluated in terms of quantity and quality of work produced.

EXAMPLES OF WORK (ILLUSTRATIVE ONLY)

Exercises the full range of supervisory duties and responsibilities over subordinate positions as defined in the Personnel Law Section 16-102(59).

Obtains data pertaining to angles, elevations, points and contours used in preliminary surveys and/or test pits, for design, map making, land records, and other related projects.

As Party Chief, assigns work, participates and performs with other members of survey party to secure field information necessary for project completion.

Conducts topographic, property lines, traverse and base lines, highway center lines, cross-sections, horizontal/vertical control precision surveys.

Occasionally participates as instrumentman in staking out vertical control for all phases of construction including stake out of features, bridges, roads, and storm drainage.

Calculates the elevations of various points of interest in showing the project features necessary to define survey projects.

Reads and interprets engineering plans to complete assigned work projects.

Performs basic mathematical calculations using addition, subtraction, and multiplication in order to calculate quantities.

Performs complex mathematical calculations using geometry and trigonometry to facilitate completion of work assignments.

Monitors the use, operation and inventory of equipment and supplies.

Conducts on-the-job training for subordinate survey technician and survey aide personnel.

May be required to use automated equipment in conjunction with assigned duties and responsibilities.

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 KNOWLEDGES, SKILLS AND ABILITIES

Good knowledge of trigonometry and related engineering mathematics.

Skill in the utilization and operation of complex surveying instruments and equipment.

Ability to accurately read and interpret plans, topographical maps and technical engineering reports.

Ability to direct the work of others in order to complete assigned projects.

Ability to keep accurate and retrievable records.

MINIMUM QUALIFICATIONS

Possession of a high school diploma, plus three (3) years of surveying experience at the Survey Technician I level one (1) of which must be at the supervisory level in the surveying field; or an equivalent combination of experience and training which provides the necessary knowledges, skills and abilities.

CONDITIONS OF EMPLOYMENT

Good physical condition.

Possession of a valid driver's license.

Willingness to work outdoors in varying weather conditions.

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