

## SURVEY TECHNICIAN I

### NATURE AND VARIETY OF WORK

This is technical and para-professional work in surveying land for the design and construction of highways, bridges and other projects. Employees in this class operate a variety of surveying instruments in the performance of advanced projects as assigned. Employees may provide supervision over Survey Aide I's and II's and are supervised by Survey Technician II positions. Work performance is evaluated in terms of quantity and quality of work.

### EXAMPLES OF WORK (ILLUSTRATIVE ONLY)

Performs the full range of surveying assignments.

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 projects.

Participates with other members of survey party in securing field information necessary for design of highways, bridges, and miscellaneous projects.

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

Serves as instrument person and operates survey instruments in staking out horizontal and vertical control for all phases of construction including stake out of bridges, roads, storm drainage, etc.

Maintains accurate and complete retrievable records of survey features.

Calculates the elevation of various points of interest in showing the project features necessary to define survey projects; reads engineering plans in order to accommodate engineering projects.

Performs basic mathematical calculations using addition, subtraction and multiplication to calculate quantities; also performs some of the more complex mathematical calculations requiring the use of trigonometry and geometry.

Supervises the care and cleaning of survey equipment and instruments.

Clears brush and locates previously established point of reference; establishes property boundaries and right-of-ways.

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 mathematics, especially algebra, geometry and trigonometry.

Skill in operating surveying instruments.

Ability to read and interpret engineering plats, plans, topographical maps and charts.

Ability to maintain accurate and retrievable records.

#### MINIMUM QUALIFICATIONS

Possession of a high school diploma and a minimum of two (2) years of surveying experience at the Survey Aide II level; or an equivalent combination of experience and training which provides the necessary knowledges, skills and abilities.

#### CONDITIONS OF EMPLOYMENT

Good physical condition.

Valid driver's license.

Willingness to work outdoors in varying weather conditions.

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