

 <p><b>STATE OF INDIANA</b> CLASSIFICATION SPECIFICATION</p>	<b>Class Title:</b> Surveyor 6		<b>Class Code:</b> 001DS5
	<b>FLSA Status:</b> Non-Exempt	<b>Salary Schedule:</b> PAT 6	<b>Effective Date:</b>
	<b>Summary:</b> Incumbent is obtaining survey data and performing calculations to determine exact location and measurements of points, elevations, lines, areas and contours of the Earth's surface to secure data used for design, construction, land acquisition and other purposes.		

**Duties:**

- Sets up and operates equipment to obtain survey data and perform calculations for determination of precise measurements;
- Operates technical survey equipment including automatic level, total station, electronic data collectors, robotic total stations and global positioning satellite (GPS) equipment in order to obtain survey data and calculate precise measurements;
- Reviews and checks topography in order to verify accuracy, clarity and any unusual features;
- Documents and maintains notes of work performed by survey crew;
- Performs mathematical calculations for curves, bench circuits and property or traverse lines.
- Researches property records in county court houses in order to obtain information regarding property ownership including such data as size, locations and easements;
- Assists in maintenance of survey instruments and vehicles;
- Stocks survey truck/van with necessary supplies;
- Plots field data using Computer Aided Drafting and Design (CADD) software for the preparation of survey drawings;
- Instructs and trains each member of the survey crew on assigned work tasks;
- Supervises and assists in all phases of surveys, such as the location of center lines using transit, chains, plumb bobs and other engineering equipment;
- Establishes vertical control using data derived from U.S. Coast and Geodetic Survey benchmarks;
- Assists in taking cross sections to show elevations of ground along survey lines;
- Keeps inventory of equipment and also sees that the truck and car are maintained properly;
- Provides technical surveying expertise and notifies management of any unusual design and construction;
- Performs related duties as required.

**Job Requirements**

- Working knowledge of surveying principles, techniques, theories and practices;
- Working knowledge of engineering principles and practices applied in the location, design and construction of roads, bridges, dams, buildings and related structures;
- Basic knowledge of the various methods that are utilized in the acquisition of land and associated properties;
- Ability to analyze surveying project and schedule job and functional assignments so as to meet timetables;
- Skill and ability to effectively operate all types of surveying instruments, including automatic levels, transits, electronic distant measuring devices, level rod, measuring tape, etc.;
- Ability to coordinate and direct the work of lower level technicians in order to meet planned objectives;
- Ability to establish and maintain good working relationships with surveyors, local officials and the general public;
- Ability to letter and/or write neatly and legibly and to properly record field survey information in survey notebooks in acceptable and understandable form;
- Physical stamina and condition to work outside under varying, sometimes extreme, weather and working conditions;
- Ability to read and interpret maps, plans, drawings, etc.;
- Knowledge of safety rules and procedures and ability to supervise lower level technicians in their usage;

- Understanding and ability to reduce field survey notes to acceptable form for use by other professional and technical staff;
- Working knowledge of laws pertaining to surveying;
- Ability to determine and calculate drainage areas and size requirements of structures;
- Ability to determine true north through the incorporation of trigonometry computations and astronomical observations.

**Difficulty of Work:**

Incumbent works in the field using judgment and experience in selecting surveying procedures and techniques to resolve a variety of situations encountered. Work is broad in scope involving supervision of engineering surveys, each of which possesses varying degrees of intricacy depending upon the location and type of the assigned survey project. Each survey requires the simultaneous carrying out and coordination of a variety of operations.

**Responsibility:**

Incumbent receives surveying assignments and general instructions from supervisor and survey crew leader. A variety of technical and administrative problems arise that require independent judgment based on agency guidelines and general surveying practices. The incumbent resolves unusual situations not covered under normal guidelines; however, supervisor is available for consultation and is advised of taken action. Incumbent insures that vehicles and equipment are accounted for and maintained and insures that safety procedures are adhered to by lower level technicians.

**Personal Work Relationships:**

Contact is with associates, local agency officials and the general public. Contact is for the purpose of coordination of information, public relations and to gain cooperation especially where surveys are being conducted on privately owned property. Contacts are also made with public utility companies for purpose of finding the location of their easements and underground facilities.