

**MICHIGAN CIVIL SERVICE COMMISSION
JOB SPECIFICATION**

LAND SURVEYOR-LICENSED

JOB DESCRIPTION

Employees in this job complete and oversee a variety of professional assignments, requiring licensure, to facilitate the completion of roads, building sites, recreational areas or bridges; and the completion of legal descriptions for the taking and marking of right-of-way. Work is performed by conducting land surveys for determination of boundary lines, retracement of government survey lines, and re-establishment of land survey corners.

There is one classification in this job.

Position Code Title – Land Surveyor-Licensed-A

Land Surveyor-Licensed 12

This is the advanced level. The employee may function as a lead worker or senior worker for a variety of assignments requiring licensure to facilitate the project completion. At this level, employees are responsible for overseeing the work assignments of other professionals or have regular assignments which have been recognized by Civil Service as having significantly greater complexity than those assigned at the experienced level.

JOB DUTIES

NOTE: The job duties listed are typical examples of the work performed by positions in this job classification. Not all duties assigned to every position are included, nor is it expected that all positions will be assigned every duty.

Serves as responsible surveyor in charge over complex assignments in a survey program under the direction of a managerial level supervisor or above.

Makes computations necessary for line and boundary intersections, curvilinear intersections, and curve calculations.

Makes meridian determinations and geodetic calculations for state coordinate computations.

Sets stakes for construction on the basis of plans prepared by design engineers or architects.

Performs surveys involving litigation; prepares exhibits, and appears in court as an expert witness.

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Makes contacts with local officials as necessary to obtain records and survey information.

Conducts land surveys for determination of boundary lines, retracement of government survey lines, and re-establishment of land survey corners.

Makes ties to subdivisions, property lines and government land corners.

Assembles field data, reduces field notes and makes survey calculations.

Assembles pertinent reference data prior to field surveys.

Plots field data, using survey computer programs, constructs maps, and prepares reports.

Establishes control for alignment and benchmarks; makes required line and elevation ties to existing centerlines and U.S.G.S. benchmarks.

Makes vertical control surveys for aerial surveys; determines elevations for various surfaces.

Makes topographical surveys and site surveys for the development and/or clean up of contaminated recreational facilities, and the design of buildings, roads, and bridges.

Maintains records and prepares reports appropriate to the classification and other non-essential functions as required.

Performs related work as assigned.

Additional Job Duties

Land Surveyor-Licensed 12 (Lead Worker)

Oversees the work of professional staff by making and reviewing work assignments, establishing priorities, coordinating activities, and resolving related work problems.

Land Surveyor-Licensed 12 (Senior Worker)

Performs on a regular basis professional land surveyor assignments that are recognized by Civil Service as more complex than those assigned at the experienced level.

JOB QUALIFICATIONS

Knowledge, Skills, and Abilities

Thorough knowledge of mathematics, survey computer programs, and survey computations applicable to the work.

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Thorough knowledge of the use of mechanical drawing instruments or survey computer programs.

Thorough knowledge of the nomenclature and symbols of drafting.

Thorough knowledge of surveying instruments and equipment and their use and care.

Thorough knowledge of the principles and practices of land surveying.

Thorough knowledge of principles, practices and materials that could include computer programs used in survey work.

Thorough knowledge of state law regarding the establishments of plats, property lines, and survey monuments.

Ability to carry out written and oral directions.

Ability to apply knowledge of land surveying to land surveying activities and techniques.

Ability to make arithmetic computations accurately and record results legibly.

Ability to do transit and level work, which may include application of total station instruments to survey projects.

Ability to communicate effectively with others.

Ability to use surveying instruments

Ability to reduce and plot field notes to make computations required.

Ability to make engineering sketches, maps and drawings.

Ability to read and interpret engineering plans and specifications.

Ability to maintain favorable public relations.

Ability to maintain records, and prepare reports and correspondence related to the work.

Additional Knowledge, Skills, and Abilities

Land Surveyor-Licensed 12 (Lead Worker)

Ability to organize and coordinate the work of others.

Ability to set priorities and assign work to other subordinates.

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Working Conditions

Some jobs require an employee to work under extreme weather conditions and environmental conditions of the work site.

Some jobs require an employee to be exposed to inclement weather conditions.

Some jobs require travel.

Physical Requirements

The job duties require an employee to stand or walk for extended.

The job duties may require an employee to traverse rough terrain.

Education

Possession of a bachelor's degree with a major in surveying.

Experience

Three years of professional experience conducting land surveys equivalent to a Land Surveyor, including one year equivalent to a Land Surveyor P11.

Special Requirements, Licenses, and Certifications

Possession of a land surveyor license issued by the State of Michigan in accordance with the provisions of Public Act 299 of 1980.

NOTE: Equivalent combinations of education and experience that provide the required knowledge, skills, and abilities will be evaluated on an individual basis.

JOB CODE, POSITION TITLES AND CODES, AND COMPENSATION INFORMATION

Job Code
LANDSRLIC

Job Code Description
Land Surveyor-Licensed

Position Title
Land Surveyor-Licensed-A

Position Code
LANSLICA

Pay Schedule
H21-026