



STATE OF NEVADA
Department of Administration
Division of Human Resource Management

CLASS SPECIFICATION

<u>TITLE</u>	<u>GRADE</u>	<u>EEO-4</u>	<u>CODE</u>
PROFESSIONAL LAND SURVEYOR II	42	B	6.208
PROFESSIONAL LAND SURVEYOR I	41	B	6.210

SERIES CONCEPT

Professional Land Surveyors are supervisors who plan, organize, schedule and oversee the layout of survey projects for the section; discuss projects with representatives of all divisions within the department and other involved agencies to determine limits of the areas to be covered and the types of survey data needed. Incumbents design and devise measurement specifications and standards to accomplish measurements with the desired precision, accuracy, error control and adjustment; act as the primary analyst of both measurement data and boundary evidence and are required to give professional opinions or expert testimony regarding most probable ground locations.

Research cartography, engineering files, geodesy, right-of-way engineering and other sources to obtain data on boundaries, centerlines and right-of-way lines to be set in the field; determine flight lines and placement of needed survey control points for aerial survey projects; determine placement of centerlines, offset lines and traverses needed for conventional location survey projects; determine through map sheets and/or plan sheets whether boundary control points can be set from existing survey control or if new control points need to be established.

Conduct project reconnaissance to search for survey control to be used and/or property corners and section corners to be tied; conduct a project orientation with personnel assigned to the project; retrace property boundaries and perform geodetic and other precise control surveys.

Perform related duties as assigned.

CLASS CONCEPTS

Professional Land Surveyor II: Under administrative direction, and in addition to performing the full range of duties as described in the series concept, the incumbent either supervises a staff of Professional Land Surveyor I positions or supervises a staff of professional and technical staff to include performance evaluations, work performance standards, scheduling, work assignment and review, training and discipline and may supervise other professional and technical staff as assigned.

Assist in budget preparation; prepare and negotiate draft budget requests and review purchase requests for supplies, equipment and services for compliance with fiscal policies and procedures.

Professional Land Surveyor I: Under general direction, incumbents perform the full range of duties as described in the series concept and may supervise professional and technical staff as assigned.

MINIMUM QUALIFICATIONS

SPECIAL REQUIREMENT:

- * At the Professional Land Surveyor II level, licensure as a Professional Land Surveyor in the State of Nevada is required at the time of appointment and as a condition of continuing employment.

INFORMATIONAL NOTE:

- * Any person licensed as a Professional Land Surveyor in another State must become licensed in the State of Nevada within six months following the date of appointment as a condition of employment.

PROFESSIONAL LAND SURVEYOR II

EDUCATION AND EXPERIENCE: Licensure as a Professional Land Surveyor in the State of Nevada and two years of licensed professional experience in a supervisory capacity and/or Individual in Responsible Charge of Work as defined in NRS 625.080; **OR** one year of experience as a Professional Land Surveyor I in Nevada State service. (*See Special Requirement and Informational Note*)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

Detailed knowledge of: principles and practices of land surveying; use, care and adjustment of surveying instruments; survey methods and procedures. **Working knowledge of:** mathematics, algebra, geometry, calculus, statistics, and their applications; procedures for the recording of maps, records of surveys, parcel maps and documents requiring certification by a Professional Land Surveyor; principles and methods for describing the features of land, sea and air masses, including physical characteristics, locations, interrelationships, and distribution of plants, animals, and human life; communicating effectively both orally and in writing as appropriate for the needs of the audience. **Ability to:** compute geodetic measurements and interpret survey data in order to determine positions, shapes and elevations of geomorphic and topographic features; determine longitudes and latitudes of important features and boundaries in survey areas, using theodolites, transits, levels, and satellite-based global positioning systems (GPS); record the results of surveys including the shape, contour, location, elevations, and dimensions of land or land features; and all knowledge, skills and abilities required at the lower level.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):

Detailed knowledge of: optimum placement and minimum density of survey control for photogrammetric bridging; geodetic surveying; construction surveying. **Working knowledge of:** principles of training and supervision; State personnel and purchasing regulations.

PROFESSIONAL LAND SURVEYOR I

EDUCATION AND EXPERIENCE: Licensure as a Professional Land Surveyor. (*See Special Requirement and Informational Note*)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

Working knowledge of: principles and practices of land surveying; survey methods and procedures. **General knowledge of:** use, care and adjustment of survey equipment; principles and methods for describing the features of land, sea and air masses; procedures for the recording of maps, records of survey, parcel maps and documents requiring certification by a Professional Land Surveyor. **Skill in:** mathematics, algebra, geometry, calculus, statistics and their applications; recording the results of surveys including shape, contour, location, elevation and dimension of land or land features. **Ability to:** read and interpret highway construction plans, survey plats, topographic maps, township plats, and aerial photographs; calculate heights, depths, relative positions, property lines and other characteristics of terrain; plan and conduct surveys designed to establish baselines, elevations, and other geodetic measurements; verify the accuracy of survey data including measurements and calculations conducted at survey sites.

PROFESSIONAL LAND SURVEYOR II
PROFESSIONAL LAND SURVEYOR I

42 **B** **6.208**
41 **B** **6.210**

Page 3 of 3

MINIMUM QUALIFICATIONS (cont'd)

PROFESSIONAL LAND SURVEYOR I (cont'd)

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):
(These are identical to the Entry Level Knowledge, Skills and Abilities required for Professional Land Surveyor II).

This class specification is used for classification, recruitment and examination purposes. It is not to be considered a substitute for work performance standards for positions assigned to this class.

6.208

6.210

ESTABLISHED: 10/1/04PC

1/9/18UC

REVISED: 1/9/18UC