



Surveying Technician II

Class code: 308

Employee Group: SEIU

Salary Range: 22

I. Position Summary

Under direction, to perform a variety of advanced technical land surveying tasks in both the office and the field; to provide reliable and accurate survey data to the public and other agencies and departments..

II. Distinguishing Features

This is the journey level technical classification in the Surveying Technician series. It is distinguished from the entry level classification in that employees perform the full range of journey level duties, possess technical or functional expertise, and perform specialized duties in a highly independent manner. Employees in this class may exercise technical or functional supervision over lower level positions. Assigned duties require the exercise of judgment and application of technical and specialized knowledge.

III. Examples of Essential Position Duties

- Performs advanced data collections; works with others using the Global Positioning System (GPS) or robotic total station.
- Under direction of the County Surveyor reviews of survey maps, subdivision, partition and condominium plats. Coordinates with citizens or private surveyors concerning said maps and plats.
- Performs the initial research for Public Land Survey System (PLSS) corner restoration projects and monuments, and prepares final maps and reports for said projects. Recovers and analyzes documentation and determines field evidence for PLSS corner projects and monuments. Under direction Monument PLSS corners per established statutes, codes and accepted standards.
- Researches land and title records and proposes resolutions for property boundaries. Under direction of higher level staff performs topographic surveys and prepares topographic maps. Processes design drawings and prepares data toward final field layout. Performs coordinate geometry calculations. Surveys data analysis of terrestrial and GPS survey information. Establishes geodetic control networks. Performs least squares adjustments.
- May serve as survey party chief as assigned, working independently within established guidelines.
- Adheres to County and departmental policies and procedures as well as safe work practices, policies and procedures.
- Develops and maintains effective working relationships with other staff, public officials, the general public and representatives of other agencies.
- Attends and participates in required trainings.
- Has regular and reliable attendance.
- Overtime may be required.
- Performs other related duties as assigned.

IV. Knowledge, Skills and Abilities

Position requires extensive knowledge of surveying principles, practices and methods; the Public Land Survey System; County ordinances, codes and Oregon Revised Statutes related to surveying and land development; the Bureau of Land Management's current Manual of Instructions; use of advanced mathematics including geometry, algebra and trigonometry to make calculations used in area of assignment; an advanced understanding of geodesy, geodetic networks, GPS surveying, map

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projections, datums, geodetic control surveys and least squares adjustments; construction staking practices; survey measurements, methods, and error analysis; and, modern survey equipment and instruments. Ability to perform survey party chief's duties; perform title research and deed record research; use modern survey instruments, including data collectors, total stations, robotic total stations, GPS equipment and digital levels; use real time GPS equipment and methodology; follow oral and written instructions; communicate effectively both orally and in writing; and, operate various power tools required when excavating pavement, concrete or ground soils; prepare and maintain accurate records, reports, logs and files; work independently under minimal supervision; provide functional or technical work direction to others as assigned; prioritize work to meet established deadlines; use a variety of engineering, drafting and field survey equipment and tools including nuclear gauge, generator, drills, steel probes, four-wheel drive vehicle, camcorder, office machines including computer, fax, copier, CAD system and peripheral equipment; and interpret and explain department policies and procedures as necessary.

V. Minimum Requirements (*Performance of the essential duties of this position includes the following requirements, physical demands and/or working conditions*)

Education and Experience

- An Associate degree in surveying, civil engineering or related field AND five years experience in boundary, engineering surveys or cadastral surveying OR
- Any combination of education and experience which provides the applicant with the desired skills, knowledge, and ability required to perform the job.

Licenses, Certificates and Other

Must have a valid Oregon driver's license with an acceptable driving record. Possession of a Land Surveyor in Training Certificate at time of hire or it must be obtained within one year of appointment.

Physical Demands (*Performance of the essential duties of this position includes the following physical demands and/or working conditions*)

Requires the ability to perform field surveys including exertion of a moderate amount of physical effort; requires sufficient hand/eye coordination and dexterity in the use of fingers, limbs or body to perform semi-skilled repetitive movements such as drafting, data entry and/or use of other office equipment or supplies; must be able to perceive forms and colors; may require the ability to operate motor vehicles. Tasks involve frequent walking over rugged terrain and on steep slopes, standing, lifting and carrying objects up to 50 pounds and some climbing. Tasks require visual perception and discrimination as well as oral communications ability.

Working Environments

Incumbents are exposed to adverse weather, including extreme temperatures, rain, snow, sleet and hail. Incumbents are also exposed to dangerous or unpleasant conditions and substances, including noise, dust, vehicular exhaust fumes, chemicals, paint, traffic hazards, noxious plants and wildlife. May include exposure to disruptive people.

VI. Additional Information

This classification description is not intended to be an exhaustive list of duties, knowledge, skills, abilities, or requirements, as any one position in this classification may be assigned some or all of these duties, in addition to other duties not explicitly listed here. The various duties, responsibilities

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and/or assignments of this position may be unevenly balanced and change from time to time based upon matters such as, but not limited to, variations in the shift, work demands, seasons, service levels and management's decisions on how to best allocate department resources. Any shift, emphasis or rebalancing of these assigned duties, responsibilities and/or assignments does not constitute a change in the job classification.

Adopted: 6/14