

SNOHOMISH COUNTY CLASS SPECIFICATION

ENGINEERING TECHNICIAN II-CONSTRUCTION

Spec No. 3043

BASIC FUNCTION

Performs basic construction engineering work including inspection, surveying, drafting, engineering data collection, construction documentation, or related field and office assignments.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Inspects features of roads, bridges, surface water, solid waste and other public works maintenance and construction projects to assure construction quality and accurate payment quantities documentation with higher level staff.
2. Participates with coordination of materials testing with lab and/or assists in materials testing for soils, asphalt, concrete including taking samples and preparing identification and chain of custody documentation.
3. Participates with construction staking, location, and topographic surveying by operating rod and chain; setting chaining points and giving backsites; placing and positioning stadia rods and setting stakes and hubs as instructed.
4. Performs routine measuring tasks, load ticket collection, project filing, computer data entry, procedural manual updating, and checking of engineering calculations; and organizes engineering field and office data.
5. Performs drafting and layout of construction field changes on plans, exhibits, displays, and maps for county road and bridge improvement projects.
6. Provides general information and assistance to the public related to area of assignment.

STATEMENT OF OTHER JOB DUTIES

7. Works within Engineering Technician II class specification in related groups in the county on temporary assignment basis including survey, design, traffic, bridge, engineering operations, surface water, solid waste and others.
8. May periodically perform a variety of higher level technician duties for training purposes.
9. May perform all the duties of subordinate level employees.
10. Performs related duties as required.

MINIMUM QUALIFICATIONS

One (1) year of vocational or college courses in civil engineering technology, and one (1) year of related field or office experience in civil engineering. Work experience may be substituted for education on the basis of one (1) year of experience equals two (2) years of education. Must pass job related tests.

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SPECIAL REQUIREMENTS

A valid Washington State Driver's License is required for employment.

KNOWLEDGE AND ABILITIES

Knowledge of:

- effective communication skills including styles, listening, negotiating and decision making in interpersonal and team situations
- mathematics, geometry, algebra and trigonometry
- elementary engineering principles and practices, materials and equipment used in the area of specialization

Ability to:

- communicate effectively both orally and in writing, and be clearly understood in English by the construction group's client group of engineers, contractors, developers and general public, and county staff members
- demonstrate and use engineering and interpersonal judgment commensurate with the work assigned within the responsibility level of this classification
- understand and interpret engineering plans and specifications
- understand and execute oral and written instructions
- use and maintain equipment and instruments utilized within the area of assignment
- prepare and organize field and office records and reports
- work both independently and in a team environment
- make decisions

SUPERVISION

Reports to a lead worker, project construction engineer or supervisor as assigned. The work is fairly routine and is performed under general supervision with intermittent review of work performance to ensure compliance with work orders and assignments. Specific instructions are given for unusual or non-routine tasks.

WORKING CONDITIONS

Work is performed in the office or in the field in varying weather conditions. Physical hazard from traffic and construction equipment at the work site may be present. Physical exertion may be required to lift equipment, sample sacks, concrete cylinders and testing equipment weighing in excess of fifty (50) pounds. Mobility is required for walking over long distances and rough terrain on construction sites. Climbing on ladders and bridge and other structures is required.

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Snohomish County is an Equal Employment Opportunity (EEO) employer.
Accommodations for individuals with disabilities are provided upon request.

[EEO policy and ADA notice](#)

Class Established: January 1993
Previous Spec No. 420425
EEO Category: 3 - Technicians
Pay Grade: 234 - Classified Pay Plan
Workers Comp: 1501 Hazardous