

HIGHWAY CONSTRUCTION TECHNICIAN I

DESCRIPTION: Under immediate supervision, performs routine tasks in support of highway construction projects including survey crew work, basic materials testing, and/or routine inspections; performs related work as required.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Participates as a survey crew member, including running the rod or chain, cutting and clearing brush, running tapes in measuring distances, setting benchmarks, placing grade stakes, and making standard computations; records field notes and operates survey equipment for training purposes.

Performs or assists with standard tests on portland cement concrete, asphaltic concrete, soil, aggregate, and other construction materials for conformance to specifications; maintains related records.

Performs or assists with inspections in routine phases of construction projects, including checking grades and elevations, collecting and recording measurements of a routine nature, learning to operate testing equipment, and maintaining related records.

Reduces survey notes and plots cross-sections.

Observes weighing equipment to determine amount of construction materials used; writes weight tickets.

Assists in keeping records for contract pay items using appropriate technology.

Drives commercial and/or non-commercial vehicles.

FULL PERFORMANCE KNOWLEDGES, ABILITIES, AND SKILLS REQUIRED: (These may be acquired on the job and are needed to perform the work assigned.)

Knowledge of: basic methods and techniques of surveying, materials testing procedures and techniques, and/or construction inspection procedures; departmental rules, policies, and procedures as they relate to construction projects.

Ability to: communicate both orally and in writing; read and interpret plans and specifications; perform mathematical calculations.

Skill in: surveying, materials testing, construction inspection, and/or operating equipment, computers, and associated software.

ENTRY KNOWLEDGES, ABILITIES, AND SKILLS REQUIRED: (Applicants will be screened for possession of these through written, oral, performance, and/or other evaluations.)

Knowledge of: math including addition, subtraction, multiplication, division, and basic geometry; grammar and spelling; basic computer operations.

HIGHWAY CONSTRUCTION TECHNICIAN I (continued)

Ability to: perform manual labor outdoors in all weather conditions; lift equipment and/or samples weighing up to 60 pounds; interact courteously and tactfully with the public; understand and follow instructions; keep records.

JOB PREPARATION GUIDELINES: (Entry knowledge, abilities, and/or skills may be acquired through, BUT ARE NOT LIMITED TO, the following coursework/training and/or experience.)

Any combinations of education, training, and/or experience that enables the individual to possess the required knowledge, skills, and abilities. A general qualification guideline for positions in this class is high school level coursework or the equivalent.

SPECIAL NOTE

A valid driver's license is required.

Most positions will require a Commercial Driver's License and required endorsements.

Most positions will be required to obtain and maintain various certifications such as concrete field and plant inspections, soil and aggregate, and nuclear gauge.

Some positions may require overnight travel.