

DESCRIPTION: Under general supervision, performs basic engineer support and construction work as a field crewmember using field construction techniques and procedures, record keeping methods, instruments, and equipment. Performs a variety of functions including survey work, materials testing and analysis, inspection construction operations, and/or computing various project measurements; interacts with contractors during work in progress; accepts or rejects materials and contractor's work; performs related work as assigned.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below.)

This is the second classification level of the Highway Construction Technician class series. Positions at this level may receive basic orientation to the specific project tasks assigned, but perform full range of duties and responsibilities expected of field construction crew members engaged in functions such as surveying, materials inspections, construction inspections, and/or other specialized functions. Any unusual questions, difficulties, or changes in established work directives are referred to higher-level technicians or the supervisor for review and solution.

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.)

Maintains field notes; calculates levels, grades, elevations, curves, and other measurements; acts as survey-leader on less complex surveys, such as cross-sections, establishing center line, setting blue tops, seeding, levels, and final measurements; may temporarily serve as a survey-leader of complex surveys in the absence of the survey crew leader.

Inspects and accepts or rejects materials and work on assigned phases of construction projects such as culverts, bridges, earthwork, capital facilities, asphaltic concrete paving, Portland cement concrete paving, fencing, landscaping, guardrail, lighting, signing, traffic control, pre-stressed concrete plants, and prefabricated concrete plants to ensure conformance to plans and specifications.

Shuts down projects for safety violations; monitors and reports other violations to the next higher-level authority.

Operates profilograph or other specialized equipment assigned; operates precision surveying equipment as a survey crewmember; cleans, maintains, and calibrates measurement instruments or equipment as needed.

Prepares, maintains, and submits inspection reports and records on inspection assignments using appropriate computer software and related databases.

Enters quantities of pay items; maintains field notes; maintains project records; checks final records for method of measurement, accuracy, and completeness.

Examines field records on completed projects to verify compliance with specifications and contracts, as part of a project-wide auditing process.

Drives commercial and/or non-commercial vehicles (including automobiles, light trucks, and vans); cleans and maintains various vehicles assigned.

Instructs and trains others in the use of equipment and techniques of survey work or field construction inspection work.

KNOWLEDGE, SKILLS, AND ABILITIES REQUIRED: (These are needed to perform the work assigned.)

Knowledge of: mathematical calculations including addition, subtraction, multiplication, and division; grammar and spelling; basic computer operations; methods, procedures, and techniques of surveying, materials testing, and/or construction inspection,; department rules, policies, and procedures as they relate to construction work; standards and specifications used for construction projects; instruments, equipment and material used in surveying, testing and inspections.

Ability to: perform manual labor outdoors in all weather conditions; lift equipment and samples weighing up to 100 pounds; interact courteously and tactfully with coworkers, contractors, consultants, the public, and others to maintain working relationships; prepare technical reports; use and maintain surveying, materials testing, and/or construction inspection instruments or equipment; maintain accurate and detailed records; communicate in person with the supervisor, coworkers, and the public to exchange information; read and interpret plans and specifications; learn and understand advanced computer operations and department specific software for recording and compiling data.

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance.)

Experience in performing activities pertinent to construction work such as surveying, materials testing, or field inspections.

OR

Coursework or training in construction surveying, materials testing, or inspections practices, and in using associated instruments and equipment.

Also, applicants must be at least 18 years of age and have a valid driver's license.

SPECIAL NOTES:

All positions in this class require incumbents to possess a Commercial Driver's License, or the ability to obtain a Commercial Driver's License within 60 days of employment. Specific positions in this class will require incumbents to possess work related endorsements.

Specific positions in this class will require incumbent to possess work related certifications. Certifications include but are not limited to concrete field and plant inspections, soil and aggregate, erosion control, and nuclear gauge work. Certifications must be obtained within one year of hire/advancement or as specified/directed by the employing agency.

Applicants being hired or advanced into positions in this class within the Department of Roads are required to pass the agency's mathematics, plan reading, and bridge plan reading courses, or possess an associate's degree in civil engineering technology, or related discipline. Applicants must provide a copy of their transcripts.

Some positions in this class may require incumbents to travel overnight/statewide.

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).