

Class Specifications
for the Class:

HIGHWAY CONSTRUCTION INSPECTOR IV
(HIGHWAY CONST INSPECTOR IV)

Distinguishing Characteristics:

This class reflects two types of positions:

- A. A working supervisor that relieves a project engineer in charge of a sizable highway construction project from the day-to-day coordination of inspectional activities, to ascertain whether construction methods, practices, materials and workmanship conform to plans and specifications, contracts, and agreements. A position of this type has responsible charge of the inspection of a sizable construction project and supervises several highway construction inspectors (of which at least one shall be of the Inspector "III" level) as a regular continuous assignment;
- B. A fully proficient inspector of a wide variety of construction projects such as highways, various types of bridges, viaducts, and related structures, baseyards, field offices, portal buildings, and tunnels requiring seasoned judgment and experience in the inspection of unique projects involving infrequently used construction methods and/or materials or a variety of skilled trades work; trains and supervises lower level workers as assigned.

Both types of positions exercise seasoned judgment and discretion in authorizing deviations from plans and specifications during construction.

Examples of Duties: *(Positions may not be assigned all of the duties listed, nor do the examples necessarily include all of the duties that may be assigned. This does not preclude the assignment of duties that are not listed.)*

Type A - Schedules, lays out, assigns, instructs and reviews the work of several highway construction inspectors engaged in inspecting various phases of highway construction work, and participates in inspecting work such as construction of structures, the installation of electrical control equipment and fixtures for highway lighting and traffic signal system, grading, construction of base courses, and laying of wearing surfaces; supervises and participates in the inspection of pile driving operations for structures; inspects and checks measuring and weighing equipment for their accuracy; inspects

various materials in the field for their quality and quantity; investigates and records complaints of minor nature and submits reports with recommendations to the project engineer; periodically checks with subordinates to determine work progress of jobs and for assurance that an adequate quality of work is being performed; reviews and summarizes reports daily submitted by inspectors; and prepares progress reports, monthly estimates and other records and accounts for submittal to the project engineer in connection with verification of payments on contracts.

Type B - Inspects a wide range of construction projects for conformance with plans and specifications, established line, grade and construction practices; checks the clearing and grubbing of rights of way; inspects the excavation and construction of embankments and subgrades and the laying of base courses and flexible and rigid pavements; inspects the construction of major reinforced concrete, structural steel, or wooden frame structures and component parts such as falsework, forms, reinforcing steel, structural steel and timber members, welding, riveting, finishing of concrete surfaces, and painting; inspects the construction of curbs, drains, culverts, catch basins, coffer dams and reservoirs; inspects the installation and construction of water, sewer, gas, electric, telephone systems, and military fuel and communication lines; inspects the construction of prestressed concrete members and post tensioned structures, including stressing and grouting operations and steel or cable installation and layout; inspects the construction of baseyards and field offices, ensuring that carpentry, electrical, plumbing, roofing, and painting are in conformance with plans and specs; inspects construction/set-up of traffic control systems; inspects the construction of portal buildings and other buildings related to highway construction, including utility systems, plumbing, ventilation system, etc.; inspects the construction of tunnels; inspects pile driving; inspects the installation of lighting systems and traffic signal systems; inspects construction of irrigation sprinkler system and landscaping; inspects and prepares samples of various construction materials such as cement and asphaltic concrete; checks to see that mixes conform to specifications; performs slump tests and makes concrete cylinders and beam samples; obtains soil samples and performs compaction tests; checks rocks, fillers, or other aggregates for consistency with approved samples; investigates complaints and submits reports; keeps records of time, materials or other costs, events, changes in field conditions, etc.; calculates quantities and makes estimates of work performed; and trains, supervises lower level workers as assigned.

Knowledge and Abilities Required:

Knowledge of: Methods and practices used in the construction of highways and related structures such as bridges, viaducts, tunnels, baseyards, field offices, retaining walls, aqueducts, culverts, catch basins, etc.; proper use for a wide variety of materials, equipment, and tools used in construction; tests of construction materials including concrete, asphaltic concrete, and soil; arithmetic; safety practices and procedures; and

principles and practices of supervision.

Ability to: Read and interpret plans and specifications for highway construction projects; relate lines and grades indicated by survey stakes to construction jobs and construction problems and make decisions; determine quality, materials and workmanship through inspection and determine compliance with specifications; make estimates of work accomplished; keep records and prepare reports; deal tactfully and effectively with contractors and the general public; and understand and carry out oral and written instructions.

This is an amendment to the specification for the class HIGHWAY CONSTRUCTION INSPECTOR IV (HIGHWAY CONST INSPECTOR IV), which was approved on September 16, 1989.

DATE APPROVED:

7/15/10



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