

7975
BRIDGE SAFETY INSPECTOR 5

Nature of Work

Under administrative direction, serves in a managerial or program expert capacity as a District Bridge Inspector Coordinator or Maintenance Division Quality Assurance/Quality Control (QA/QC) Bridge Inspection Technician for the Division of Highways. An employee in this class performs advanced level reviews of bridge safety inspection reports and analysis work or supervises the performance of several bridge safety inspection teams and may perform field work as required. Hazardous working conditions involve climbing on the superstructure and substructure of bridges. The work may involve exposure to severe weather conditions. Duties also include scheduling the Under Bridge Inspection Unit and other necessary equipment to complete inspections. Performs related work as required.

Distinguishing Characteristics

This classification is distinguished from the Bridge Safety Inspector 4 by the assignment of advanced responsibility for planning bridge inspections for several teams, analysis at the expert level of inspection findings, load rating of bridges and supervision and coordination of inspection team members and team leaders. Also, may serve in the expert capacity as a QA/QC technician for the statewide program if assigned to the Maintenance Division.

Examples of Work

Plans and schedules the work of bridge safety inspection teams within the district.
Supervises the work performed through the bridge safety inspection supervisors and subordinate staff.
Reviews and edits final inspection reports completed by inspection teams for accuracy, completeness and conformance to established guidelines.
Performs preliminary technical analysis such as stress analysis.
Reviews the quality of completed inspection work by comparing reported data with actual structural condition.
Writes periodic progress reports pertaining to the bridge safety inspection program within a district or statewide as required.
Works as an inspection team member or inspection team leader in the absence of other inspectors or team leaders.
Performs Load Rating Analysis.
Schedules Under Bridge Inspection Unit and other related equipment for Bridge Safety Inspectors.

Knowledge, Skills and Abilities

Knowledge of the manuals and standards of the American Association of State Highway Transportation Officials and the American Institute of Steel Construction applicable to bridge safety inspection.
Knowledge of federal and state manuals and standards applicable to bridge safety inspection.
Knowledge of bridge design and construction principles and bridge mechanics.
Ability to effectively supervise the work of others.
Ability to interpret plans and specifications.
Ability to compute areas and volumes.
Ability to create and retain accurate notes and records.
Ability to make detailed sketches.
Ability to compute dead loads for various bridge types.

7975

BRIDGE SAFETY INSPECTOR 5 (cont'd)

Knowledge, Skills and Abilities (cont'd)

Ability to compute distribution factors for various bridge types.

Ability to complete standard forms and inventories.

Ability to write narrative technical reports.

Ability to climb bridge structures and perform strenuous physical activities.

Minimum Qualifications

Training: An associate's degree in Civil Engineering Technology from a college or university accredited by the Accreditation Board for Engineering and Technology (ABET).

Experience: Nine (9) years of paid experience in inspection of in-service bridges.

Promotional Only: Certification as a Bridge Safety Inspector 5 by the West Virginia Division of Highways.

Special Requirements: Successful completion of a training course based on the Federal Highway Administration's "Bridge Inspector's Training Manual" and a satisfactory score on the West Virginia Division of Highways' "Bridge Inspector's Certification Test" are required. A valid driver's license is required.

Established: 09/28/2017

Effective: 10/28/2017