

8343

## BRIDGE SAFETY INSPECTOR 4

### **NATURE OF WORK:**

Under limited supervision, an employee in this class performs advanced level bridge safety inspection and analysis work and supervises the performance of a bridge safety inspection team. May perform strenuous physical labor. Hazardous working conditions involve climbing on the superstructure and substructure of bridges. The work may involve exposure to severe weather conditions. Performs related work as required.

### **DISTINGUISHING CHARACTERISTICS:**

This classification is distinguished from the Bridge Safety Inspector 3 class by the assignment of advanced responsibility for planning and executing bridge inspections, analysis of inspection findings, and supervision of inspection team members.

### **ESSENTIAL JOB FUNCTIONS: (Any specific position in this class may not include all of the duties listed, nor do the examples listed cover all of the duties which may be assigned.)**

Plans and schedules the work of bridge safety inspection teams within the district.  
Supervises the work performed through the bridge safety inspection team supervisors.  
Reviews and edits draft inspection reports completed by inspectors 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 on the bridge safety inspection program within a district as required.  
Works as an inspection team member or inspection team supervisor in the absence of other inspectors or supervisors.

### **KNOWLEDGE, SKILLS, AND ABILITIES:**

Extensive 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.  
In-depth knowledge of federal and state manuals and standards applicable to bridge safety inspection.  
Extensive 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 perform stress analysis.  
Ability to compute areas and volumes.  
Ability to keep accurate notes and records.  
Ability to make detailed sketches.

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:** Education equivalent to graduation from a standard four-year high school.

**Experience:** Ten years of full-time experience or equivalent part-time paid employment in bridge safety inspection or bridge safety inspection report review.

**Substitution:** An Associate degree in engineering from a regionally accredited college or university may be substituted for one (1) year of experience.

**SPECIAL REQUIREMENT:**

Successful completion of a training course based on the Federal Highway Administration's 'Bridge Inspector's Training Manual' and a satisfactory score on the Division of Highway's 'Bridge Inspector's Certification Test' are required. Possession of a valid driver's license is also required.

Note: Certification as a Transportation Engineering Technician- Senior by the Transportation Engineering Technician Certification Program may be given preference for promotional purposes.

**PROMOTIONAL ONLY:**

Three years of full-time or equivalent part-time paid experience as a Bridge Safety Inspector 3.

Established: 11/16/93

Revised: 3/6/96, 11/16/01, 3/2/09, 2/18/11

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