

# Missouri Department of Transportation

Code: R01091

Title: Bridge Inspection Technician

Exemption Status: Non-Exempt

Grade: 15

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## Job Description

**Effective Date** 01-01-2014

**Replaces (Effective Date)** 06-01-2010

**General Summary** The bridge inspection technician conducts annual safety, in-depth and underwater bridge inspections to ensure the safety of the traveling public. Responsibilities are performed under moderate supervision.

**Minimum/Required Qualifications** High School Diploma or GED/HiSET, plus additional coursework in bridge inspection techniques.

Requires completion of Cardio-Pulmonary Resuscitation (CPR), first aid training, and certification in the use of Self-Contained Underwater Breathing Apparatus (SCUBA) within one year of start date in job.

Must pass a physical examination prior to acceptance for job, and must pass a physical examination annually to remain in job.

Requires completion of National Highway Institute (NHI) Courses 130055A, "Safety Inspection of In-Service Bridges" and 130054A, "Engineering Concepts for Bridge Inspectors" within one year of start date in job.

Six years of experience with bridge inspection assignments.

Successful completion of a range of motion examination and a medical-physical examination.

**Supervisory Responsibilities** Lead Worker Only

**Location** Central and District Offices - Maintenance; Design

**Special Working Conditions/Job Characteristics** Job requires regular, statewide, overnight travel.

Job requires heavy physical exertion and effort.

Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

Job may require operation of vehicles to plow snow and spread ice control materials.

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## Examples of Work

- (1) Conducts annual safety inspections of state owned bridges and prepares written reports of the conditions of the structures.

- (2) Conducts underwater bridge inspections by wading and probing, sonar for depth soundings, and/or using SCUBA equipment.
- (3) Conducts and assists in-depth bridge inspections of all major river bridges using under-bridge inspection equipment.
- (4) Records in the transportation management systems bridge inspection database structure ratings and degrees of deterioration of all state bridges and culverts.
- (5) Creates and updates bridge and culvert location maps to ensure accuracy and distributes as appropriate.
- (6) Provides underwater inspection findings to district and division personnel.
- (7) Performs or leads in-depth inspections using non-destructive testing methods, under-bridge inspection equipment and climbing gear.
- (8) Performs post-incident bridge inspections to determine severity of damage and recommends appropriate actions with regard to bridge closures and detours.
- (9) Meets with public officials, law enforcement, or the media on bridge related issues.
- (10) Performs lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
- (11) Performs other responsibilities as required or assigned.

**The Missouri Department of Transportation promotes an equal opportunity workplace that includes reasonable accommodation of otherwise disabled applicants and employees. Please see your manager should you have any questions about this policy or these job duties.**