

**MICHIGAN CIVIL SERVICE COMMISSION**  
**JOB SPECIFICATION**  
**BRIDGE WORKER**

**JOB DESCRIPTION**

Employees in this job use manual and motorized equipment to perform bridge maintenance and repair, routine construction work, and roadside improvements.

There are four classifications in this job.

**Position Code Title - Bridge Worker-E**

Bridge Worker 6

This is the entry level. The employee performs a range of bridge maintenance, repair, and construction assignments under close supervision in a learning capacity.

Bridge Worker 7

This is the intermediate level. The employee performs a range of bridge maintenance, repair, and construction assignments under general supervision in a developing capacity.

Bridge Worker E8

This is the experienced level. Employees at this level, as full-functioning Bridge Workers, perform a full range of maintenance, repair, and construction assignments and use judgment in making decisions where alternatives are determined by established procedures, methods, and practices.

**Position Code Title - Bridge Worker-A**

Bridge Worker 9

This is the advanced level. The employee functions as a crew leader and oversees the work of lower-level Bridge Workers and others in the performance of equipment operations and maintenance activities.

**NOTE:** Employees generally progress through this series to the experienced level based on satisfactory performance and possession of the required experience

**JOB DUTIES**

**NOTE:** The job duties listed are typical examples of the work performed by positions in this job classification. Not all duties assigned to every position are included, nor is it expected that all positions will be assigned every duty.

Repairs expansion joints and structured members, fabricates repair items, and maintains cables.

Repairs guardrails, makes forms, pours concrete, and cleans and paints highway structures.

Patches and replaces concrete, bituminous, and wood floors on bridges.

Installs and replaces corroded structural steel on highway structures.

Performs routine building maintenance which includes carpenter work, painting, plumbing, minor electrical work, general building maintenance, and other associated tasks.

Operates heavy duty dump trucks with snow plows, underbody blades, sanders, and salt spreaders to remove snow accumulation from highways and bridges.

Operates water tank truck, front end loaders, and other heavy equipment for bridge maintenance operations.

Operates sand blasters, jackhammers, concrete saws, and spray painting machines.

Performs stone and concrete work, rigging, rip-rapping, excavating, filling, and sodding.

May pilot a boat for painting and scuba diving team operations, below water maintenance, debris recovery, and overspray of paint recovery operations.

Provides escort or transport services for vehicles/passengers crossing the bridge, including vehicles carrying overwidth, overweight, or dangerous cargos, hauls bicycles, or drives timid motorists.

Performs basic servicing and minor maintenance of vehicles and equipment.

Makes minor repairs on tools and equipment.

Shovels snow from sidewalks, doorways, and fare collecting areas.

Assists in roadside improvements.

Interprets written instructions and plans.

Performs related work as assigned.

### **Additional Job Duties**

#### **Bridge Worker 9 (Crew Leader)**

Coordinates work by scheduling assignments and overseeing the work of others.

Oversees and assures the quantity and quality of the workflow by directing the employees' strict adherence to methods and procedures.

Explains work instructions and adapts, if necessary, pertinent general methods and procedures in order to meet required needs.

Determines various types of equipment and kinds of materials necessary for the various bridge maintenance operations.

Operates the more complex equipment.

Trains new Bridge Workers, Trades Helpers, and Laborers in all phases of bridge maintenance operations.

### **JOB QUALIFICATIONS**

#### **Knowledge, Skills, and Abilities**

**NOTE:** Some knowledge in the area listed is required at the entry level, developing knowledge is required at the intermediate level, considerable knowledge is required at the experienced level, and thorough knowledge is required at the advanced level.

Knowledge of the materials, equipment, processes, and tools used in the construction and maintenance of bridges and piers, and the repair and maintenance of motorized equipment.

Knowledge of steel, cement, asphalt, and other construction materials.

Knowledge of the occupational hazards and safety rules and regulations involved in the work.

Knowledge of the operation, cleaning, and repair of hand and power tools associated with the work.

Knowledge of the operation of motorized equipment for land or water use.

Knowledge of hazards and safety precautions related to the work.

Some knowledge of painting, caulking, and carpentry.

Ability to utilize tools and equipment used in carpentry, steel construction, and concrete finishing.

Ability to operate maintenance equipment.

Ability to rig and work from scaffolds.

Ability to understand and follow instructions.

### **Additional Knowledge, Skills, and Abilities**

#### **Bridge Worker 9 (Crew Leader)**

Ability to organize and coordinate the bridge worker activities of a specific work area.

Ability to train lower-level Bridge Workers and others.

Ability to determine priorities and allocate work to others in a work area.

Ability to operate and maneuver complex equipment under difficult conditions.

### **Working Conditions**

Some jobs require an employee to work on high structures.

Some jobs require an employee to be exposed to inclement weather conditions.

Some jobs require an employee to work where there is a significant chance of injury.

Some jobs require travel.

### **Physical Requirements**

The job duties require an employee to bend, reach, stoop, stand and/or walk for extended periods.

The job duties require an employee to climb ladders.

### **Education**

Educational level typically acquired through completion of high school.

### **Experience**

#### **Bridge Worker 6**

No specific type or amount is required.

#### **Bridge Worker 7**

One year of experience in bridge maintenance work or as a semi-skilled worker in bridge or industrial construction, including the operation of such equipment as cranes, pneumatic tools, air compressors, and concrete mixers equivalent to a Bridge Worker 6.

#### **Bridge Worker E8**

Two years of experience in bridge maintenance work or as a semi-skilled worker in bridge or industrial construction, including the operation of such equipment as cranes, pneumatic tools, air compressors, and concrete mixers equivalent to a Bridge Worker, including one year equivalent to a Bridge Worker 7.

#### **Bridge Worker 9**

Three years of experience in bridge maintenance work equivalent to a Bridge Worker, including one year equivalent to a Bridge Worker E8.

**Special Requirements, Licenses, and Certifications**

Possession of a valid Michigan driver's license.

**NOTE:** Equivalent combinations of education and experience that provide the required knowledge, skills, and abilities will be evaluated on an individual basis.

**JOB CODE, POSITION TITLES AND CODES, AND COMPENSATION INFORMATION**

**Job Code**

BRIDGEWKR

**Job Code Description**

BRIDGE WORKER

**Position Title**

Bridge Worker-E

Bridge Worker-A

**Position Code**

BRDGWKRE

BRDGWKRA

**Pay Schedule**

A31-005

A31-011

SA

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