

**MICHIGAN CIVIL SERVICE COMMISSION**  
**JOB SPECIFICATION**  
**BOILER INSPECTOR**

**JOB DESCRIPTION**

Employees in this job inspect boilers, attachments, accessories, and related equipment to ensure safety and compliance with state laws, administrative rules, and codes.

**Position Code Title - Boiler Inspector-E**

Boiler Inspector 10

This is the intermediate level. The employee performs a limited range of boiler inspection assignments in a developing capacity.

Boiler Inspector E11

This is the experienced level. The employee performs a full range of boiler inspection assignments and exercises considerable independent judgment in making decisions requiring the interpretation of laws, administrative rules, and state codes in specific situations.

**Position Code Title - Boiler Inspector-A**

Boiler Inspector 12

This is the advanced level. The employee functions as a lead worker overseeing the work of lower-level Boiler Inspectors and performing experienced level Boiler Inspector assignments; or as a senior worker performing the most complex assignments.

**JOB DUTIES**

**NOTE:** Listed job duties are typical examples of work of positions in this classification. Not all duties assigned to every position are included, nor will all positions be assigned every duty. The general description of job duties does not authorize performance contrary to any state or federal licensing or certification requirements.

Inspects steam and hot water boilers and related equipment; tests pressure vessels and observes operation of equipment; and reports potential violations of the applicable acts and codes.

Conducts inspections of new boiler installations; orders corrections if the construction or installation is found to be unsafe or not in compliance with applicable laws, administrative rules, and state codes.

Determines whether boiler repairs have been properly completed; approves or disapproves the reinstallation of repaired boilers.

Reviews proposed construction documents to determine compliance with applicable laws, administrative rules, and state codes.

Issues written notices of code violations requiring corrective action after inspection of physical installations and construction.

Issues citations in accordance with applicable acts and codes.

Testifies at administrative hearings or in court cases related to violations of the applicable laws, administrative rules, and state codes.

Maintains records, prepares reports, and conducts correspondence related to the work.

Performs related work and other tasks as assigned.

## **Additional Job Duties**

### **Boiler Inspector 10**

Performs new boiler inspections (initial inspection) and routine boiler inspections of low-pressure boilers used for hot water heat, hot water supply, and steam heat with inputs of less than 5,000,000 BTU/hr.

### **Boiler Inspector E11**

Performs new boiler inspections (initial inspection) and routine boiler inspections of high-pressure boilers, repairs to boilers, and accident investigations.

Collects evidence and prepares reports on boiler accidents to determine the cause; orders repairs and/or makes recommendations to prevent future accidents.

### **Boiler Inspector 12 (Lead Worker)**

Instructs and trains in proper work methods and processes.

Reviews job performance by observing and critiquing work techniques and completed assignments.

### **Boiler Inspector 12 (Senior Worker)**

Regularly performs the most complex and difficult assignments.

## **JOB QUALIFICATIONS**

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

**NOTE:** 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 laws, administrative rules, and state codes relating to the use, construction, installation, and repair of boilers.

Knowledge of the standard practices, processes, tools, equipment, and materials related to the construction, installation, maintenance, and repair of boilers.

Knowledge of boiler inspection techniques and practices.

Knowledge of the occupational hazards and safety precautions applicable to the work.

Knowledge of investigative techniques and methods.

Ability to interpret and apply laws, administrative rules and state codes related to the work.

Ability to read and review documents.

Ability to observe critically observe, obtain accurate data, and prepare reports.

Ability to communicate effectively.

Ability to operate a motor vehicle.

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

#### **Boiler Inspector 12 (Lead Worker)**

Ability to train and oversee the work of others.

Ability to prioritize, organize, and coordinate the work of the unit.

#### **Boiler Inspector 12 (Senior Worker)**

Ability to perform the most complex Boiler Inspector assignments.

## **Working Conditions**

The job requires an employee be exposed to heat, dust, dirt, noise, dampness, and noxious fumes and odors.

The job requires an employee to work in tunnels, crawl spaces, and from considerable heights.

The job requires considerable travel.

Some jobs require an employee to be exposed to unsafe boilers and toxic substances.

### **Physical Requirements**

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

The job duties require an employee to climb ladders.

### **Education**

Education typically acquired through completion of high school.

### **Experience**

#### **Boiler Inspector 10**

Three years of experience in the inspection, construction, maintenance, repair, or operation of high-pressure or low-pressure boilers, as a mechanical engineer, steam operating engineer, boilermaker, or boiler inspector.

#### **Boiler Inspector E11**

Five years of experience in the inspection, construction, maintenance, repair, or operation of high-pressure boilers, as a mechanical engineer, steam operating engineer, boilermaker, or boiler inspector.

#### **Boiler Inspector 12**

Six years of experience in the inspection, construction, maintenance, repair, or operation of high-pressure boilers, as a mechanical engineer, steam operating engineer, boilermaker, or boiler inspector, including one year equivalent to a Boiler Inspector E11.

### **Alternate Education and Experience**

#### **Boiler Inspector 10**

Possession of a valid Michigan Boiler Installer or Repairer license for 3 years may be substituted for the experience requirement.

**NOTE:** Civil Service can individually evaluate equivalent combinations of education and experience providing required knowledge, skills, and abilities to qualify.

### **Special Requirements, Licenses, and Certifications**

Successful completion of the Boiler Inspector examination conducted by the State of Michigan is required for Boiler Inspector 10 positions.

Possession of a commission issued by the National Board of Boiler and Pressure Vessel Inspectors is required for Boiler Inspector E11 and 12 positions.

Possession of a driver's license.

See individual position descriptions for other requirements.

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

#### **Job Code**

BOILERISP

#### **Job Code Description**

BOILER INSPECTOR

**Position Title**

Boiler Inspector-E

Boiler Inspector-A

**Position Code**

BOLRISPE

BOLRISPA

**Pay Schedule**

A02-039

A02-041

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