

Water Quality Inspector

FLSA Status: Covered
Bargaining Unit: District Council of Trade Unions (DCTU)

General Summary

Positions in this broad class review commercial plans and conduct field inspections of new and existing water service connections for compliance with City, State and Federal rules and regulations regarding water distribution system contamination and cross connection control. Responsibilities include regulatory sampling and monitoring of the distribution system, groundwater sampling, and investigating and resolving complaints of customers concerning water quality.

Water Quality Inspector I - 30000139

Distinguishing Characteristics

The entry level of this class performs regulatory sampling and monitoring of distribution system water quality, performs field analysis for physical and chemical constituents, and inspects new water service connections to assure compliance with cross connection control regulations.

Typical Duties/Examples of Work

1. Inspects new water service connections to determine if backflow protection is provided or if cross connections exist.
2. Performs on-site inspection and testing of backflow prevention assemblies on various potable and non-potable services connected to the public water supply.
3. Performs regulatory sampling and monitoring of distribution system water quality; takes water samples for chemical and bacteriological analysis in accordance with prescribed procedures; performs field analysis for physical and chemical constituents; and keeps required records.
4. Prepares correspondence and reports regarding water quality.
5. Responds to calls to work during emergencies.
6. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: plumbing/ water systems, principles of hydraulics and related devices; factors involved in backflow and of devices and techniques to prevent backflow and cross connection problems; principles of water flow and pressure; disinfecting methods for water pipes; sanitation of water; plumbing code and OHD administrative rules pertaining to cross-connection backflow device installation, testing, and troubleshooting; basic water chemistry

Ability to: establish and maintain effective working relationships; use the tools of the trade; operate and use safety and testing equipment; interpret codes

Skill in: reading construction plans, blueprints and quarter section maps; use of computer

Special Requirements

Valid state driver’s license. OSHD Back flow Assembly Tester certification and OSHD Cross-Connection Control Inspector certification within 12 months of hire.

Classification History:

Adopted: 2-03-99:

Class created as a result of DCTU Classification and Compensation Study 1998-99.

June 2009 - Change Job Class number from 1712 to 30000139, due to system change.

July 2018 – Revised OSHD certifications to be required within 12 months of hire.

Water Quality Inspector II - 30000140

Distinguishing Characteristics

The journey level of this class is actively involved in the development review process by providing a full range of plan review and inspection services related to cross connection control. This class provides technical consultation to property owners, engineers, architects, contractors and others related to cross connection control rules, regulations, issues and problems. This level of the class performs detailed groundwater sampling to track groundwater contamination in the production well delineation area.

Typical Duties/Examples of Work

1. Reviews construction documents, plans and permit applications of a wide range of proposed construction or alterations of commercial and complex residential

structures to insure compliance with Federal, State and Municipal Cross

- Connections control related codes. Performs inspections of plumbing systems to determine if backflow protection is adequate or if cross connections exist.
2. Reviews scope of projects; analyses information, advises designers, builders, customers, and the general public on procedures and interpretation of State and Municipal Codes concerning Cross Connection Control; prescribes corrective action verbally and in writing, follows up by means of field inspections.
 3. Performs on-site inspection and testing of backflow prevention assemblies on various potable and non-potable services connected to the public water supply; certifies and approves final installations.
 4. Works with property owners, engineers, architects, contractors and others to assure compliance with water quality rules and regulations; provides technical assistance regarding water quality.
 5. Receives and investigates customer complaints regarding water quality including commercial and residential buildings; determines probable cause; recommends corrective action and problem resolution.
 6. Takes water samples for chemical and bacteriological analysis in accordance with prescribed procedures; performs field analyses for physical and chemical constituents; and keeps required records.
 7. Prepares correspondence and reports regarding water quality.
 8. May conduct seminars regarding water quality, backflow prevention and cross connection.
 9. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: plans review and permitting processes

Skill in: effective problem-solving; providing effective customer service; diffusing and resolving difficult situations

Special Requirements

Same as Water Quality Inspector I

Classification History:

Adopted: 2-03-99:

Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:

1713 Water Quality Inspector Adopted: 08-19-75
June 2009 - Change Job Class number from 1713 to 30000140, due to system change.

Water Quality Inspector III - 30000141

Distinguishing Characteristics

The lead level of this class provides direction and training to Water Quality Inspectors. It differs from the journey level by its lead responsibilities.

Typical Duties/Examples of Work

1. Provides lead direction to Water Quality Inspectors; schedules and assigns work.
2. Provides programmatic expertise and quality control oversight for water quality inspection services.
3. Provides training to Water Quality Inspectors; conducts educational programs for others as needed.
4. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: effective principles and practices of leadership

Ability to: schedule and assign the work of others

Skill in: demonstrating techniques to others; providing training to others; providing lead direction to staff; including assigning and reviewing work

Special Requirements

Same as Water Quality Inspector I

Classification History:

Adopted: 2-03-99:

Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:

1709 Back Flow Program Coord. Adopted 05-06-88 (former title, Lead Water Quality Inspector)

June 2009 - Change Job Class number from 1714 to 30000141, due to system change.

Working Conditions

Work in this class is typically performed in a field environment. Incumbent is typically required to negotiate rough terrain; to lift up to 50 pounds; to work outdoors in all weather conditions; to be called back to work during emergencies; to work in and around traffic, confined space and hazardous conditions requiring protective gear and clothing.