

## **CCTV Inspection Technician**

### CLASS DESCRIPTION

#### General Responsibilities:

This is responsible skilled work and technical work in leading multiple crews in the internal inspection and/or trenchless repair of sanitary sewer, storm sewer and drainage and closed landfill facilities. An employee in this class performs skilled project coordination work and leads a team consisting of Sewer & Drainage Maintenance Technicians and lower level machine operators and maintenance workers. Under the general supervision of an Engineer or Public Works General Foreperson, an employee in this class is expected to function independently and exercise considerable judgment and discretion in completing assigned work. Specific work assignments may vary based on the needs of the Division.

This position is not part of an automatic progression series. Rather, placement as a CCTV Inspection Technician is based on a competitive process and the needs of individual divisions.

#### Examples of Duties and Responsibilities:

Review CCTV inspection and trenchless work orders. Identify resources that are required. Identify and review potential challenges with supervisor and team. Communicate assignments to team members. Coordinate and direct activities of assigned crew members to accomplish work in a safe and efficient manner.

Identify and implement necessary plugging, by-pass pumping and/or dewatering measures. Coordinate and oversee pre-inspection and pre-cleaning repair cleaning.

Perform system inspections. Observe surface conditions along sewer pipe alignments. Inspect manholes from the ground level and from within. Oversee insertion of camera and light head into sewer line via access structure. Calibrate camera and position to provide accurate measurement and view of entire pipe circumference. Navigate camera through pipeline to provide a digital inspection. Adjust lighting, travel speed, etc. to ensure capture of high quality image. Stop camera at joints, defects, changes in material, connection, etc. and provide 360 degree view. Use CCTV survey software to record sewer id, material, diameter, length and other required survey information. Perform operational and structural condition assessments using standardized PACP defect codes and severity ratings. Recommend options for repair (i.e. open cut, trenchless, etc).

Oversee and perform trenchless repairs to sanitary and storm sewers. Accurately locate defect(s), prepare and apply thermosetting resin to fiberglass reinforced patch, secure resin patch to inflatable flow-through packer, insert and accurately position at repair location. Inflate packer to specified pressure and allow resin to cure as specified by manufacturer to provide structural strength. Perform CCTV inspection of repair.

Clean, maintain, and inspect storm and sanitary sewer systems. Perform confined space entries per established City procedures. Perform flow measurements, dye tests, and smoke testing. Clean and remove obstructions from lines. Provide regular checks and cleaning of known problem areas and carry out special programs. Perform CCTV inspection of repair.

Operate specialized cleaning, maintenance and inspection vehicles and equipment, which may require a CDL. This includes mechanical rodders, high-velocity hydraulic/vacuum machines, and closed circuit pipeline inspection equipment.

Respond to emergencies such as system backups, overflow, and odor complaints. Identify problem and take appropriate corrective action. Report illegal discharges.

Work with crews to identify problems, concerns and required follow-up action to be taken and increase efficiency and productivity. Train and orient new employees on job skills, safety procedures, and related work procedures and practices. Participate in new equipment field testing and evaluation.

Maintain vehicles and equipment. Inspect vehicles and equipment to ensure working condition. Perform CDL inspections as required. Perform regular cleaning and maintenance as required.

Maintain appropriate safety standards. Ensure proper use of safety equipment at all times. Maintain adequate traffic control at jobsites.

Prepare and maintain records. Record daily work and inspection observations. Maintain CDL inspection records as required. Prepare and submit vehicle problem reports.

Perform related work as required.

## QUALIFICATIONS

### **Training and Experience:**

Generally, positions in this classification will require:

Three (3) years of directly related experience in performing skilled or semi-skilled work in the installation, maintenance, internal inspection and/or trenchless repair of municipal sanitary and storm sewer systems. Other combinations of training and/or experience which can be demonstrated to result in the possession of the knowledge, skills and abilities necessary to perform the duties of this position will also be considered.

Specific training and experience requirements will be established at the time of recruitment.

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

Thorough knowledge of the methods, practices, equipment, tools, and materials used in the cleaning, maintenance, inspection, and/or trenchless repair of municipal sanitary and storm sewer systems. Thorough knowledge of related safety principles and practices. Working knowledge of and ability to use computer software applicable to the duties of

the position. Skill in assessing and responding to storm and wastewater collection system problems. Ability to apply general mechanical aptitude and perform skilled mechanical tasks. Ability to operate related tools and equipment. Ability to oversee work of assigned employee(s). Ability to prepare and maintain routine work related records. Ability to understand and follow oral and written work orders and instructions. Ability to maintain good working relationships with public and co-workers. Ability to perform manual tasks involving physical strength, confined entry and endurance and to withstand exposure to variable weather conditions. Ability to operate a motor vehicle, including commercial motor vehicles as assigned. Ability to maintain adequate attendance.

**Necessary Special Qualifications:**

Possession of a valid Class B Wisconsin Commercial Driver's License with N endorsement at time of application.

First Aid/CPR certification at time of application.

PACP Certification to be obtained within probation or trial period; ability to maintain such certifications while employed in this position.

Trenchless Repair – Certified Installer status by manufacturer to be obtained within probation or trial period; ability to maintain such certifications while employed in this position.

Failure to obtain the Trenchless Repair and PACP certifications within the probation or trial period will result in forfeiture of the position, absent extenuating circumstances.

Employees must maintain an emergency call in overtime acceptance rate of at least 50%.

**Physical Requirements:**

Employees in this position must be able to perform manual labor under adverse weather conditions, regularly, lift/carry objects weighing up to 75 pounds frequently and must be capable of lifting 100 pounds maximum weight. In addition, they must be able to frequently bend, twist, squat, climb and reach for extended periods of time. Employees in this position will be expected to perform work in confined spaces, underground, in limited light conditions.

Department/Division	Comp. Group	Range
Engineering	15	9

Approved: \_\_\_\_\_  
 Erin Hillson  
 Human Services Director  
 Date