

## WASTEWATER COLLECTION SYSTEM TELEVISION (TV) TECHNICIAN

### JOB DESCRIPTION

**Classification Responsibilities:** A Wastewater Collection System Television (TV) Technician is responsible for performing skilled work in the operation and maintenance of audio-visual and computer equipment used in the internal inspection, inventory, and evaluation of Mesa's sanitary sewer mains and customer service lines. An employee in this class is involved in specialized maintenance work of the wastewater collection system and provides narrative and written documentation of inspections and sewer defects found during inspections. Work requires the employee to work in conjunction with, and at times operate, high-velocity jet rodding equipment. Incumbents may direct and oversee the work of an assigned crew in the absence of a Water/Wastewater Utility System Crew Leader. This class performs related duties as required.

**Distinguishing Features:** This class is distinguished by its responsibility for operating and maintaining specialized pieces of equipment including a Closed-Circuit Television (CCTV) camera and recorder in the inspection of sewer mains and services. Employees in this class are responsible for the proper documentation, rating, and prioritization of sewer defects found during the inspection process, and as such, must be knowledgeable of sewer defects and the associated rating code. Work includes job hazards such as: frequent exposure to raw sewage and industrial wastes, working in confined spaces, and exposure to automobile traffic. This class is subject to emergency call-out and must be available to work scheduled stand-by and overtime on nights, weekends, and holidays as required. This class is supervised by a Water/Wastewater Utility System Crew Leader. This class is FLSA nonexempt.

### QUALIFICATIONS

**Employee Values:** All employees of the City of Mesa are expected to uphold and exhibit the City's shared employee values of Knowledge, Respect, and Integrity.

**Minimum Qualifications Required.** High school diploma or GED. At least three years of full-time work experience performing wastewater collection system maintenance and some experience and/or knowledge operating closed-circuit pipeline inspection equipment.

**Special Requirements.** Must possess a Grade II (or higher) Wastewater Collection Operator certification from the Arizona Department of Environmental Quality (ADEQ) or equivalent certification from another state through reciprocity with Arizona by application date. Certification through reciprocity must be obtained within 3 months of hire or promotion. Must possess a valid Arizona Class A Commercial Driver's License (CDL) with Tanker endorsement and no Air Brake Restrictions by hire date. Must meet the qualifications to wear a tight fitting respirator by passing a medical evaluation in accordance with Code of Federal Regulations (CFR) 1910.134 by hire or promotion date and must maintain certification.

**Substance Abuse Testing.** Due to the safety and/or security sensitive nature of this classification, individuals shall be subject to pre-employment or pre-placement alcohol, drug and/or controlled substance testing as outlined in City policy and procedures. This class is subject to Department of

Transportation (DOT) Federal Motor Carrier Safety Administration (FMCSA) drug and alcohol testing as outlined in 49 CFR Part 382.

**Preferred/Desirable Qualification.** Training or certifications from National Association of Sewer Service Companies (NASSCO) is highly desirable.

## ESSENTIAL FUNCTIONS

**Communication:** Communicates orally with other City employees, management, contractors, and the general public to convey findings of inspections, report work in progress, problems with equipment, information regarding sewer service interruptions, and answers questions regarding City policy concerning sewer repairs. Provides narration during taping of inspections that provides additional information concerning the image being displayed. Prepares clear, concise, and accurate written reports documenting the findings of inspections, reporting problems encountered, and completing work requests, as needed. Completes other paperwork, such as mileage reports and equipment usage reports, as required. Instructs or trains crewmembers in the operation and maintenance of equipment, and in documentation procedures.

**Manual/Physical:** Operates robotic closed-circuit television and recording equipment to inspect, monitor, and evaluate the physical condition of sewer mains, sewer services, and other work-related conditions. Prepares videotapes of inspections for supervisors, management's, customers, or contractor's review. Reviews the work of others to ensure effective cleaning of sewer mains. Inputs, updates and maintains databases associated with the inspections of sewer lines. Performs physical inventory of collection system components and equipment. Operates a CCTV truck, or motor vehicles requiring a valid Arizona Class A CDL, such as a crew truck (with trailer carrying heavy equipment), dump truck, combination high-velocity jet truck, dump truck or backhoe. Digs up ground and opens manhole covers using a pick and shovel. Moves objects and equipment (weighing up to 70 pounds) using a cart or other aid for distances up to 10 feet in order to open manholes and insert camera equipment. Works in a variety of weather conditions while performing inspections. Uses specialized personal protective equipment as necessary, to work in small, cramped, and confined spaces up to a depth of 20 feet when inserting and retrieving equipment. Cleans work area and equipment. Works with cleaning fluids and agents to clean and disinfect equipment. Uses common hand tools such as: hammers, screwdrivers, and other tools to maintain camera and robotic equipment. Uses specialized tools for repair and maintenance of equipment. Distinguishes colors to identify blue stake markings and color coded electrical wires during repair of equipment. Installs and replaces drive belts, wheels, gears, and cable on camera and robotic equipment. Prepares and boxes camera and robotic equipment for shipment to manufacturer for service. Sets up and removes barricade and traffic cones to re-route traffic, and to provide a safe work area. Detects traffic sounds, backup warning devices, and sirens when working near moving traffic, moving equipment, or in confined space entries. Meets scheduling and attendance requirements.

**Mental:** Assesses sewer defects found during inspections of collection system. Assigns appropriate codes to defects and prioritizes them for repair. Resolves procedural and operational problems. Coordinates work activities with other crews within the section and with other City departments. Interprets quarter section maps, construction as-built, or other visual aids to identify sewer lines,

direction of flow, pipe size, and manholes. Comprehends and makes inferences from written material such as maintenance and operation manuals. Monitors activities of crewmembers to ensure that work is completed properly and in conformance with established safety practices. Learns job-related material through on-the-job training and classroom setting regarding operation and maintenance of equipment and collection system.

**Knowledge/Skills/Abilities:**

Knowledge of:

sewer operation, inspection, maintenance and repair;  
the operation and maintenance of CCTV equipment used in the inspection of wastewater collection systems;  
wastewater collection system defects and the severity of these defects; and  
work hazards associated with wastewater collection systems and applicable safety precautions.

Skills in:

the care and operation of closed-circuit pipe inspection equipment;  
the care and use of a variety of tools and equipment used in wastewater collection systems; and  
effectively communicating and dealing with the public.

Ability to:

perform minor repairs and maintenance of electrical and electronic equipment;  
read and interpret maps, blueprints, schematics, and plans;  
prepare records showing conditions of sewer mains;  
lead the work of a small crew; and  
establish and maintain effective working relationships with coworkers, supervisors, and the general public.

The duties listed above are intended only as general illustrations of the various types of work that may be performed. Specific statements of duties not included does not exclude them from the position if the work is similar, related, or a logical assignment to the position. Job descriptions are subject to change by the City as the needs of the City and requirements of the job change.

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JOB FCTN-TEC

INCREMENTS 53-200

PAY GRADE: 45

IND-7580

SWORN-No