

## **FIRE MAINTENANCE SERVICE TECHNICIAN**

### **JOB DESCRIPTION**

**Classification Responsibilities:** The Fire Maintenance Service Technician performs a variety of semiskilled and skilled firefighting equipment maintenance and repair, including Self-Contained Breathing Apparatus (SCBA) and rescue equipment and tools.

SCBA related duties include visually checking the SCBAs for damages, running computerized tests on the SCBA functions, performing routine maintenance and repairs on the SCBA bottles and external components, monitoring hydrostatic testing dates and picking up/delivering the SCBAs as needed, sampling carbon monoxide meters and taking air samples, performing tests and maintenance on high pressure air compressors and valves; filling SCBA bottles, installing and maintaining oxygen cascade systems, inspecting and repairing flow control and safety valves and rebuilding as necessary, and maintaining and repairing breathing air and sampling equipment.

Non-SCBA related maintenance and repair involves annually inspecting, testing, maintaining/servicing, and performing repairs on extrication and rescue tools; annually servicing 2-cycle and 4-cycle engines on firefighting equipment; annually servicing and repairing ground ladders and related equipment; conducting annual testing of firefighting hoses; maintaining and testing water and hose appliances; fabricating basic hoses, assemblies, and adapters used in firefighting; repairing firefighting hand tools; assisting with entering and tracking dates that the hoses, nozzles, and appliances were tested; and rebuilding engines and troubleshooting and repairing small electronic devices. This class also assists with and serves as a backup for maintaining and tracking loaner equipment; coordinating the repair of equipment that is sent out to vendors and inspecting completed work; maintaining a spreadsheet of equipment, maintenance tasks, and testing information; maintaining an inventory of the tools, parts, supplies, and equipment used for SCBA and equipment maintenance; and maintaining regulatory updates, equipment manuals, and product catalogs pertaining to the SCBAs, fire equipment, and tools. This class is also responsible for performing related duties as required.

**Distinguishing Features:** The primary function of the position under review is to inspect, maintain, troubleshoot, and repair Fire Department SCBAs, as well as those used by the Police Department and Water Reclamation Plants. Supervision is received from the Senior Fire Maintenance Service Technician who reviews and approves the incumbent's work for quality and completeness through observation of work in progress and completed work, evaluation of overall results achieved, and conferences. 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.** Any combination of training, education, and experience equivalent to graduation from high school or GED. Considerable (3 - 5 years) experience in the repair and maintenance of SCBAs and/or other firefighting support equipment.

**Special Requirements.** Must possess a valid Class D Arizona Driver's License by hire or promotion date. Must obtain factory certification in the maintenance and repair of the Scott-brand SCBA within 90 days after hire or promotion date.

**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.

**Preferred/Desirable Qualifications.** Personal computer (PC) word processing and data management experience involving basic keying and data entry skills is preferred.

## **ESSENTIAL FUNCTIONS**

**Communication:** Communicates with management, coworkers, other City employees, and the general public to coordinate and complete work and to establish and maintain effective working relationships. Conveys status of SCBA/equipment maintenance and repair. May advise the Fire Maintenance Shop Supervisor/Superintendent of compliance with SCBA and equipment maintenance regulatory guidelines and requirements. Requisitions tools, parts, supplies, and equipment to be ordered.

**Manual/Physical:** Inspects, tests, troubleshoots, maintains, and repairs SCBAs, high pressure breathing air compressors and cylinders, and valves. Inspects repair work completed by vendors. Installs and maintains oxygen cascade systems. Inspects, repairs, and rebuilds flow control valves and safety valves. Conducts computerized functional testing of SCBAs. Samples carbon monoxide meters and takes quarterly air samples. Operates equipment and vehicles requiring a standard Class D Arizona Driver's License to pick up and deliver SCBA bottles and other equipment. Annually inspects, tests, maintains, and repairs rescue tools. Troubleshoots and repairs small electronic devices such as personal alert safety alarms and thermal imaging equipment. Services 2-cycle and 4-cycle engines on firefighting equipment and rebuilds engines. Conducts annual testing of firefighting hoses, and requisitions and maintains an inventory of replacement fire hose. Maintains an inventory of replacement ladders. Requisitions, maintains, and tracks an inventory of loaner firefighting equipment that can be distributed to crews. Maintains and tests hose appliances. Services and repairs ground ladders and related equipment. Designs and fabricates high-pressure manifold assemblies, hoses, and adapters for use in firefighting. Maintains records of equipment inspections and repairs per legal requirements, established standards, and regulations. May maintain a spreadsheet of the equipment, maintenance tasks, and testing information. Distinguishes colors to work with various electrical wiring and color-coded sizing of critical parts on SCBAs. Detects traffic sounds when working near moving equipment including backup warning devices. Performs tasks involving moderate to considerable physical exertion, including moving objects and equipment (such as SCBAs) weighing up to 50 pounds or greater than 50 pounds using assistive devices. Operates power-driven machinery such as saws, ventilation fans, and rescue tools to test operation. Uses a PC to maintain track information and prepare various reports. Uses appropriate personal protective equipment (PPE). Meets scheduling and attendance requirements.

**Mental:** Analyzes data and conditions in diagnosing problems for the repair of SCBAs and other specialized fire apparatus and equipment. Comprehends and makes inferences from written material. Understands and interprets schematic drawings, layouts, or other visual aids to pinpoint problems with critical life safety equipment (air paks, alarms). Reads manuals to determine appropriate replacement

parts. Prioritizes own work assignments. Learns job-related material through on-the-job training and in classroom settings.

**Knowledge and Abilities:**

Knowledge of:

the operation, testing, maintenance, and repair of SCBAs and other firefighting support equipment;  
the techniques used to troubleshoot and repair specialized fire equipment;  
the specialized and standard hand tools used in the maintenance and repair of firefighting support equipment;  
regulatory agency requirements that regulate SCBA use and maintenance;  
proper procedures for safe operation and maintenance of SCBAs and other firefighting support equipment; and  
personal computers and software related to equipment maintenance.

Ability to:

inspect, maintain, troubleshoot, and repair SCBAs and other firefighting support equipment;  
maintain comprehensive repair and service records;  
perform tasks involving moderate and sometimes considerable physical exertion;  
follow department policies, procedures, and work methods; and  
establish and maintain effective working relationships with coworkers, management, other City employees, 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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EEO-Tech

JOB FCTN-MEC

INCREMENTS 81-200

PAY RANGE: 41

IND-8810

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