

## SENIOR FIRE MAINTENANCE SERVICE TECHNICIAN

### JOB DESCRIPTION

**Classification Responsibilities:** The Senior Fire Maintenance Service Technician performs a variety of semiskilled and skilled firefighting equipment maintenance and repair, including Self-Contained Breathing Apparatus (SCBAs) and rescue equipment and tools, and related administrative tasks; and supervises the Fire Maintenance Service Technician class. This class is also responsible for performing related duties as required.

The SCBA maintenance and repair work involves testing, troubleshooting, maintaining, and repairing high pressure breathing air compressors and valves; installing and maintaining oxygen cascade systems; inspecting, repairing, and rebuilding flow control valves and safety valves; conducting computerized functional testing of SCBAs; sampling carbon monoxide meters and taking quarterly air samples; visually inspecting high pressure storage cylinders and coordinating and tracking the dates of internal hydrostatic testing by an independent lab. This position also performs other firefighting equipment maintenance and repair work which involves annually inspecting, testing, maintaining, and repairing rescue tools; annually servicing 2-cycle and 4-cycle engines on firefighting equipment and rebuilding engines; conducting annual testing of firefighting hoses; requisitioning and maintaining an inventory of replacement fire hose; maintaining and testing hose appliances; servicing and repairing ground ladders and related equipment, coordinating and tracking the required annual testing and certification of the ladders by a third party; maintaining an inventory of replacement ladders; and designing and fabricating high-pressure manifold assemblies, hoses, and adapters for use in firefighting.

Administrative tasks involve prioritizing, organizing, and directing the SCBA and small equipment repair work; supervising the Fire Maintenance Service Technician; coordinating the repair of the firefighting equipment sent out to vendors and inspecting the completed work; researching and maintaining regulatory updates and guidelines and advising the Fire Maintenance Shop Supervisor of compliance; researching part numbers and vendors for firefighting equipment and parts; requisitioning tools, parts, supplies, and equipment to be ordered, and maintaining an inventory of these items; researching and evaluating new technology, equipment, and products and making recommendations; tracking dates that hoses, nozzles, and other appliances or attachments were tested; assisting the Fire Maintenance Shop Supervisor with writing specifications for firefighting equipment; and requisitioning, maintaining, and tracking an inventory of loaner firefighting equipment.

**Distinguishing Features:** The Senior Fire Maintenance Technician class is responsible for the SCBA and equipment maintenance, repair, testing, and record keeping, and this class is considered the internal subject matter expert for SCBA maintenance and repair. This class receives general supervision from the Shop Supervisor who evaluates the work based on observation, overall results, and customer feedback. The Senior Fire Maintenance Service Technician supervises the lower-level Fire Maintenance Service Technician class. 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. Good (1 - 3 years) experience in the repair and maintenance of SCBAs and/or other firefighting support equipment.

**Special Requirements.** Must possess a valid Arizona Driver's License by hire 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.** Experience in a lead or supervisory capacity is preferred. Personal computer (PC) word processing and data management experience involving basic keying and data entry skills are 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. Trains the Fire Maintenance Service Technician to perform SCBA maintenance related work, which involves assigning work, conducting on-the-job training, and providing direction for maintenance and repairs. Conveys status of SCBA/equipment maintenance and repair. Advises the Fire Maintenance Shop Supervisor 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. Visually inspects high-pressure storage cylinders. 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. Maintains 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. Operates equipment and vehicles requiring a standard Arizona Driver's License to pick up and deliver SCBA

bottles and other equipment. Uses appropriate personal protective equipment (PPE). Meets scheduling and attendance requirements.

**Mental:** Prioritizes, organizes, and directs the SCBA and small equipment repair work. Supervises the Fire Maintenance Service Technician class, which involves reviewing work in progress and upon completion, evaluating work, and establishing goals. Coordinates the repair of firefighting equipment sent out to vendors. Coordinates and tracks the dates of internal hydrostatic testing of SCBA cylinders by an independent lab. Coordinates annual testing and certification of the ladders by a third party and maintains records. Tracks dates that hoses, nozzles, and other appliances or attachments were tested. Forecasts need for future replacement of SCBA and rescue equipment. Researches and maintains regulatory updates and guidelines related to the SCBAs, fire equipment, and tools. Researches part numbers and vendors for firefighting equipment and parts. Researches and evaluates new technology, equipment, and products requested by fire crews or the Fire Department's Research and Development (R&D) Committee and makes recommendations. Assists the Fire Maintenance Shop Supervisor with writing specifications for firefighting 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;  
effectively prioritize, organize, and direct the SCBA and small equipment repair work;  
effectively supervise the Fire Maintenance Service Technician; 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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INCREMENTS 81-200

PAY RANGE: 47

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