



**Code: 6732**

Family: Construction, Maintenance, and Skilled Labor

Service: Operation and Construction

Group: Industrial Trades

Series: Miscellaneous Industrial Trades

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## **CLASS TITLE: SENIOR AIR MASK TECHNICIAN**

### **CHARACTERISTICS OF THE CLASS**

Under supervision, performs full range of duties in the repair, cleaning and maintenance of breathing and life support equipment including Self Contained Breathing Apparatus (SCBA), Self-Contained Underwater Breathing Apparatus (SCUBA), Oxygen Regulators, Oxygen Cylinders and related components used by firefighting and emergency medical services personnel; and performs related duties as required

### **ESSENTIAL DUTIES**

- Inspects and dismantles various equipment parts (e.g., facepieces, air and oxygen cylinders, compressed gas cylinders, breathing air regulators) to identify physical damage or signs of deterioration
- Operates testing equipment and takes readings of pressure control systems to test cylinder valves for leakage, flow, and pressure levels
- Repairs, maintains, and replaces malfunctioning equipment and parts and rebuilds cylinder valves, using small hand tools and specialized tools to ensure the safe operating condition of equipment
- Conducts quality control tests, inspection, and calibration on equipment to ensure breathing equipment, valves and cylinders conform to operating standards and are in proper working order
- Cleans breathing equipment and related parts as part of scheduled maintenance and equipment servicing
- Conducts fit testing of facepieces on firefighters, medics, and other personnel
- Operates oxygen and compressed air fill stations to refill air and oxygen cylinders
- Tracks and maintains an inventory of breathing equipment and related parts
- Creates and processes work orders through the department system
- Acts as a liaison with vendors to facilitate orders, repair and maintenance
- Evaluates data and makes recommendations to management relative to improvement in service and efficiency
- Provides guidance and instruction to Air Mask Technicians
- Assists in delivering equipment and supplies to and from fire houses
- Maintains records, as required

**NOTE:** *The list of essential duties is not intended to be inclusive; there may be other duties that are essential to particular positions within the class.*

### **MINIMUM QUALIFICATIONS**

#### **Education, Training, and Experience**

- One year of experience in maintaining and repairing appliances or mechanical equipment

#### **Licensure, Certification, or Other Qualifications**

- MSA CARE (Certified Air mask Repair Education) Initial Certification is required

- A valid State of Illinois driver's license is required

**WORKING CONDITIONS**

- General shop environment
- Exposure to outdoor elements

**EQUIPMENT**

- Standard office equipment (e.g., telephone, printer, photocopier, fax machine, calculator)
- Computers and peripheral equipment (e.g., personal computer, computer terminals, hand-held computer)
- Hand tools (e.g., hammer, screwdriver, wrench, pliers)
- Power tools
- Testing and monitoring equipment (e.g., oxygen test stand, Posi-check Machine, Quantafit Machine, flow meters, air compressors)
- Breathing air fill station
- Personal protective equipment (e.g., shoes, glasses, gloves)

**PHYSICAL REQUIREMENTS**

- Substantial lifting (up to 50 pounds) is required
- Ability to stand and walk for extended or continuous periods of time
- Ability to quickly bend, stretch, twist, or reach out with one's body, arms, and/or legs
- Ability to operate applicable hand tools, power tools, and equipment

**KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS****Knowledge**

Moderate knowledge of:

- \*applicable hand and power tools and testing instruments
- \*equipment and materials specific to the maintenance and repair of division equipment
- manufacturers' manuals for servicing equipment

Some knowledge of:

- \*applicable safety and code standards, including OSHA standards
- \*repair, maintenance, and preventative maintenance methods, practices, and procedures applicable to equipment
- \*use of safety equipment and protective gear
- \*applicable computer software packages and applications
- applicable emergency operations
- applicable computer software packages and applications

Knowledge of applicable City and department policies, procedures, rules, regulations, and ordinances

Other knowledge as required for successful performance in the Air Mask Technician class

**Skills**

- \*ACTIVE LISTENING - Give full attention to what other people are saying, take time to understand the points being made, ask questions as appropriate, and not interrupt at inappropriate times
- \*CRITICAL THINKING - Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems
- \*COMPLEX PROBLEM SOLVING - Identify complex problems and review related information to develop and evaluate options and implement solutions
- \*COORDINATION WITH OTHERS - Adjust actions in relation to others' actions
- \*EQUIPMENT SELECTION - Determine the kind of tools and equipment needed to do a job
- \*EQUIPMENT MAINTENANCE - Perform routine maintenance on equipment and determine when and what kind of maintenance is needed
- \*OPERATION MONITORING - Watch gauges, dials, or other indicators to make sure a machine is working properly
- \*QUALITY CONTROL ANALYSIS - Conduct tests and inspections of products, services, or processes to evaluate quality or performance
- \*REPAIRING - Repair machines or systems using the needed tools
- \*TROUBLESHOOTING - Determine causes of operating errors and decide what to do about it

Other skills as required for successful performance in the Air Mask Technician class

**Abilities**

- COMPREHEND ORAL INFORMATION - Listen to and understand information and ideas presented through spoken words and sentences
- SPEAK - Communicate information and ideas in speaking so others will understand
- COMPREHEND WRITTEN INFORMATION - Read and understand information and ideas presented in writing
- WRITE - Communicate information and ideas in writing so others will understand
- RECOGNIZE PROBLEMS - Tell when something is wrong or is likely to go wrong
- REACH CONCLUSIONS - Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events)

Other abilities as required for successful performance in the Air Mask Technician class

**Other Work Requirements**

- INITIATIVE - Demonstrate willingness to take on job challenges
  - STAMINA - Demonstrate energy and stamina to accomplish work tasks
  - COOPERATION - Be pleasant with others on the job and display a good-natured, cooperative attitude
  - DEPENDABILITY - Demonstrate reliability, responsibility, and dependability and fulfill obligations
  - ATTENTION TO DETAIL - Pay careful attention to detail and thoroughness in completing work tasks
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All employees of the City of Chicago must demonstrate commitment to and compliance with applicable state and federal laws, and City ordinances and rules; the City's Ethics standards; and other City policies and procedures.

The City of Chicago will consider equivalent foreign degrees, accreditations, and credentials in evaluating qualifications.

\* May be required at entry.

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City of Chicago  
Department of Human Resources  
October, 2020  
Certification(s) updated: May, 2021