

Position Summary

The O₂ Cleaning Technician is responsible for performing specialized cleaning procedures for components and assemblies destined for oxygen-enriched environments. This position ensures compliance with stringent cleanliness standards to prevent combustion hazards, contamination, or product failure. The technician works closely with quality control and production teams to maintain a safe and compliant cleaning operation within a controlled environment.

Essential Duties and Responsibilities

- Perform acid cleaning of components using controlled chemical processes (e.g., citric or nitric acid) to remove oxides, scale, and contamination per defined specifications and safety protocols.
- Clean equipment and instrumentation for oxygen service, ensuring compliance with CGA G-4.1, ASTM G93, or equivalent standards to eliminate flammable contaminants and particulates.
- Clean equipment and instrumentation for chlorine service in accordance with company and industry-specific safety standards to prevent reactive contamination and ensure operational integrity.
- Pickle and passivate stainless steel and alloy components using approved chemical treatments to improve corrosion resistance and meet customer and regulatory requirements.
- Complete and document necessary certifications, including but not limited to cleaning verification logs, inspection sign-offs, and traceable cleaning batch records.
- Conduct final inspections under UV light or white light per procedure to verify cleanliness before packaging.
- Handle components in accordance with cleanroom or controlled-environment handling procedures to prevent post-cleaning contamination.
- Maintain up-to-date knowledge of and compliance with internal SOPs, Material Safety Data Sheets (MSDS/SDS), and applicable regulatory standards.
- Support audits or inspections related to cleaning and certification processes.
- Safely operate and maintain chemical cleaning equipment, ultrasonic baths, pressure washers, or vapor degreasers used in the cleaning process.

Knowledge, Skills, and Abilities

- **Technical Knowledge:** Familiarity with industrial or precision cleaning methods, especially for oxygen service.

- **Attention to Detail:** Ability to identify even minor contaminants or procedural deviations.
 - **Documentation:** Proficient in documenting work per quality and traceability requirements.
 - **Cleanroom Awareness:** Understanding of cleanroom protocols (ISO Class 7/8 preferred).
 - **Teamwork:** Collaborates effectively with peers, quality assurance, and engineering.
 - **Problem-Solving:** Able to troubleshoot cleaning process issues and escalate appropriately.
 - **Regulatory Awareness:** Knowledge of relevant standards (ASTM G93, CGA G-4.1, ISO 14644) and basic OSHA safety practices.
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Education and Experience

- High School Diploma or GED required.
 - 1–3 years of experience in industrial cleaning, manufacturing, or cleanroom environment preferred.
 - Experience with oxygen cleaning or high-purity component handling is strongly preferred.
 - Training in hazardous materials handling (HAZMAT), chemical safety, or cleanroom protocols is a plus.
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Physical Requirements and Environmental Conditions

- Must be able to stand, walk, bend, and lift up to 50 lbs for extended periods.
- Use of PPE including gloves, gowns, safety glasses, and respirators as required.
- Work is performed in a cleanroom or lab-like setting; exposure to cleaning chemicals, pressurized gas systems, and mechanical equipment is expected.
- Must be able to tolerate repetitive tasks and occasional exposure to moderate noise levels.
- Visual acuity must be sufficient to inspect for small particles or film residues.