

Maintenance Program for Medical Piping Systems

Praxair Healthcare Services offers a comprehensive program for medical gas pipeline systems in your facility that includes periodic testing, preventive maintenance, repairs, certification, utility system audits, decontamination services, engineering services, education and training.

Periodic Testing:

NFPA 99 and The Joint Commission require periodic testing for all medical gas systems.

- The medical pipeline system is tested for gas purity, leaks, and cross connections.
- Medical gas outlets and zone valves are inspected for conformance and performance.
- Master and local alarms are tested for proper function, activation, and labeling.
- All source supplies are inspected to NFPA 99 for proper conformance and function.

Preventive Maintenance:

- Scheduled to manufacturer's recommendations.
- Helps assure patient safety by reducing emergency repairs and unexpected service disruptions.

Service:

- Our technicians can install major brands and also perform repairs on most components of the medical pipeline system.
- Medical gas components are adjusted and calibrated to NFPA and OEM specifications.

Certification Program:

- Both new and existing systems must comply with NFPA, The Joint Commission, OSHA, state, and local codes.
- New systems: New systems must be installed and certified in strict compliance with codes. Leaks, cross connections, proper labeling, alarms, valves, manifolds, and outlets are verified with test gas. Shutdowns and system tie-ins are coordinated with the contractor. The system is then connected and retested for flow, purity, pressure, and cross connections, after which we issue final certification.
- Existing systems: We assess existing systems to ensure they are in compliance with acceptable NFPA, The Joint Commission, OSHA, state and local codes.

Utility system audits include:

- Periodic systems evaluations;
- Purity and concentration testing and
- Particulate analysis.

Decontamination services:

Purging is required for new systems. Existing piping sometimes requires purging to remove contaminants that get trapped in the system. Praxair can solve this problem with wash and purge services:

- The system is flushed to remove particulates, standing water, oil, and gaseous contaminants.
- Our decontamination program meets NFPA and CGA standards.

Engineering services:

Not having up-to-date drawings could be a major problem when you need to renovate, relocate, or upgrade your system. Using CAD/CAM software,



our engineers can:

- Recreate an accurate of schematic (2D) or isometric (3) drawings, identifying locations of existing gas systems including source equipment, piping location and sizing, sensors, alarms, valves, outlets, and gauges.
- Provide you with descriptive labeling for all the controls and valves shown on your schematics.

Education and training:

- Brazing certification – Our brazing certification course qualifies your personnel to do your own installations on smaller projects.
- Medical gas in-service training – Our in-service training teaches your personnel to perform preventive maintenance.
- Inspector training – Our inspector training enables your personnel to supervise subcontractors.
- Medical gas emergency preparedness – We provide emergency preparedness training for nurses and other personnel working with oxygen and other medical gases.

Here are four good reasons to enquire about our Maintenance Program for Medical Piping Systems:

- With decades of experience in bulk, manifold, and pipeline medical gas systems, we are well qualified to find and correct most of the deficiencies you are likely to encounter.
- We can evaluate your gas demand and recommend changes or upgrades to improve performance, prevent run outs, and lower costs.
- We can help you promote a safer working and clinical environment and improve the quality of patient care.
- All our procedures are in strict compliance with federal, state and local codes.