Medical Gas Piping & Storage Inspection Checklist

Site / Project		**Address**	
Inspector name		**Company**	
Date		**Time**	

Documentation aid only. Adapt this resource to the site, manufacturer instructions, and applicable local requirements. It does not replace a competent person, professional judgment, legal advice, or a required statutory form.

Inspection checklist

Medical Gas Manifold Room Inspection

☐	Is access to the manifold room restricted to authorized personnel only?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Is proper signage displayed indicating the gases present and emergency contact information?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Is the manifold room adequately ventilated to prevent the buildup of oxygen or other gases?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Is the manifold room clean, free of combustible materials, and properly maintained?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Are all cylinder connections tight and free of leaks (check with appropriate leak detection solution)?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Are pressure regulators functioning correctly and set to the appropriate delivery pressure?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Is the reserve gas supply (if applicable) full and ready for immediate use?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Is the medical gas alarm system functioning correctly, with audible and visual alarms tested?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Are emergency shut-off valves clearly labeled and easily accessible?	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Are all electrical components in the manifold room properly grounded and free from hazards?	☐ Pass	☐ Fail	☐ N/A	Notes:

Are all medical gas pipelines properly identified with labels indicating the gas type and flow direction?	Pass	Fail	N/A	Notes:
Is appropriate fire protection equipment (e.g., fire extinguisher) readily available and inspected?	Pass	Fail	N/A	Notes:

Medical Gas Cylinder Storage Inspection

Are medical gas cylinders stored in a secure area, protected from unauthorized access?	Pass	Fail	N/A	Notes:
Are full and empty cylinders clearly segregated and labeled?	Pass	Fail	N/A	Notes:
Are all cylinders properly secured with chains or straps to prevent tipping?	Pass	Fail	N/A	Notes:
Are cylinder valves protected by caps or collars when not in use?	Pass	Fail	N/A	Notes:
Are cylinders stored away from incompatible materials (e.g., flammable liquids, oil, grease)?	Pass	Fail	N/A	Notes:
Are cylinders stored in a cool, dry, and well-ventilated area, away from direct sunlight and heat sources?	Pass	Fail	N/A	Notes:
Is appropriate signage displayed indicating the gases present and any hazards?	Pass	Fail	N/A	Notes:
Are cylinder valves free from damage, corrosion, and leaks?	Pass	Fail	N/A	Notes:
Are pressure relief devices on cylinders unobstructed and functioning correctly?	Pass	Fail	N/A	Notes:
Is appropriate cylinder handling equipment (e.g., hand trucks) available and in good working condition?	Pass	Fail	N/A	Notes:
Is fire protection equipment (e.g., fire extinguisher) readily available near cylinder storage?	Pass	Fail	N/A	Notes:
Are cylinders properly grounded to prevent static electricity buildup?	Pass	Fail	N/A	Notes:

Medical Gas Piping System Inspection

Visually inspect all medical gas piping for signs of damage, corrosion, or leaks.	Pass	Fail	N/A	Notes:
Ensure all piping is properly supported and secured to prevent stress and movement.	Pass	Fail	N/A	Notes:

Verify that all piping is clearly labeled with the gas type and flow direction at appropriate intervals.	Pass	Fail	N/A	Notes:
Test all manual and automatic valves to ensure they operate smoothly and effectively.	Pass	Fail	N/A	Notes:
Review records of recent pressure testing to ensure the system meets required standards.	Pass	Fail	N/A	Notes:
Inspect for any potential cross-connections between different medical gas lines.	Pass	Fail	N/A	Notes:
Verify that the system has been properly purged after any maintenance or repairs.	Pass	Fail	N/A	Notes:
Inspect flexible connectors for signs of wear, damage, or leaks.	Pass	Fail	N/A	Notes:
Test area alarms to ensure they are functioning correctly and provide timely warnings.	Pass	Fail	N/A	Notes:
Test master alarms to ensure they are functioning correctly and provide timely warnings.	Pass	Fail	N/A	Notes:
Verify that all source valves are clearly labeled and easily accessible.	Pass	Fail	N/A	Notes:
Confirm that up-to-date system schematics and documentation are readily available.	Pass	Fail	N/A	Notes:

Vacuum System Inspection

Verify that the vacuum pump is operating within its specified parameters.	Pass	Fail	N/A	Notes:
Inspect the vacuum receiver tank for proper pressure levels and leaks.	Pass	Fail	N/A	Notes:
Check and replace vacuum system filters as needed.	Pass	Fail	N/A	Notes:
Inspect vacuum piping for damage, corrosion, and proper support.	Pass	Fail	N/A	Notes:
Test the vacuum system alarm to ensure it activates at the correct pressure levels.	Pass	Fail	N/A	Notes:
Verify that isolation valves are functioning correctly and are easily accessible.	Pass	Fail	N/A	Notes:
Ensure proper drainage is in place to remove any accumulated fluids.	Pass	Fail	N/A	Notes:

☐	Conduct regular leak testing to identify and repair any leaks in the system.	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Review maintenance records for the vacuum pump to ensure it is properly serviced.	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Ensure all electrical connections are secure and properly grounded.	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Verify that backflow prevention devices are installed and functioning correctly.	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Confirm that up-to-date system schematics and documentation are readily available.	☐ Pass	☐ Fail	☐ N/A	Notes:

Findings

#	Item	Location	Severity	Action required
1				
2				
3				
4				
5				
6				
7				
8				

Signature

Inspector signature _____ **Name** _____

Date _____