

Atmospheric Testing and Monitoring

Introduction

Confined-space air can change without visible signs or a reliable odor. Instruments must match the anticipated contaminants and be used by trained personnel under the entry program.

Hazards & Controls

Use suitable, calibrated direct-reading instruments; perform function checks as instructed. Test oxygen, then combustible gases and vapors, then toxic gases and vapors. Account for sampling locations, stratification, hose delay, and sensor limitations. A four-gas monitor does not detect every possible contaminant.

Establish permit-specific acceptable conditions and monitoring requirements. Oxygen below 19.5% or above 23.5%, or flammables above 10% of the LFL, are hazardous under these definitions; values within those bounds do not alone prove safe entry. Exit for alarms, symptoms, or prohibited conditions. Follow required continuous monitoring or justified periodic monitoring rules.

Use the employer's authorized entry procedure for the applicable industry. These awareness notes do not authorize entry or replace required role-specific training.

Safety Reminders

Do not enter until required controls, authorization, and emergency arrangements are verified. Exit and report alarms, symptoms, loss of communication, or other prohibited conditions; never attempt an unauthorized rescue.

Engagement Questions

Which contaminants can our instrument detect, and which hazards need other methods?

What site-specific hazards or changes would make us stop work?

Sources and use notice

OSHA: Permit-Required Confined Spaces (1910.146)

OSHA: Construction Permit-Space Program - Testing and Monitoring

These materials are general educational suggestions, provided as is. They may contain errors or omissions and are not a complete safety program, professional advice, or a substitute for required training. Employers and users must independently verify the information, assess site hazards, and follow current applicable requirements and manufacturer instructions before use. To the extent permitted by applicable law, SAVIOR Supplies disclaims warranties of accuracy, completeness, and suitability and liability for loss, injury, or damage arising from use of these materials. Nothing excludes liability or rights that cannot lawfully be excluded. Attendance does not establish competency. Not an OSHA publication or endorsement.

Meeting Record & Sign-In

Atmospheric Testing and Monitoring

Company: _____ Date: _____

Jobsite: _____ Presenter: _____

Time / duration: _____ Crew / shift: _____

Site-specific hazards and controls discussed

	Printed name	Signature
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Follow-up action / responsible person / due date

Signatures record participation only. They do not establish competency, certify compliance, or waive rights. Retain completed sheets under company policy. Print additional copies for larger crews.