



FFAI Skill Sheet 5.3 FGS Pressure and Leak Testing © Revised: 10-18-21

NFPA 1033 Standard for Professional Qualifications for Fire Investigator 2022 Edition

NFPA 921 Guide for Fire and Explosion Investigations 2021 Edition

Candidate: _____ **Date:** _____

Reference Source **NFPA 1033 2022 Edition 4.1.7 (2-a, c, e, 3-a, 4-d), 4.2.8, NFPA 921 2021 Edition Chapter 10**

Expected Completion Time: 15 Minutes

TASK: 4.2.8* Inspect the performance of building systems, including detection, suppression, HVAC, utilities, and building compartmentation, given standard and special equipment and tools, so that a determination can be made as to the need for expert resources, an operating system's impact on fire growth and spread is considered in identifying origin areas, defeated and/or failed systems are identified, and the system's potential as a fire cause is recognized.					
PERFORMANCE OUTCOME: The Fire Investigator shall document the condition of the gas system					
EQUIPMENT REQUIRED: Appropriate Personal Protective Equipment, common tools and equipment					
CONDITIONS: Given a prepared fire scene or skills teaching prop the candidate shall:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Verbalize confirmation that the system is no longer charged with fuel gas.				
2.	Given a selection of tools and equipment, select or confirm an appropriate method to isolate the gas system				
3.	Confirm the system is up to operating pressure				
4.	Check for leaks using a gas meter or other device, or confirm the location of the leak with soap and water solution				
5.	Document the location and return the system to a safe condition				
	Total:	4/5		4/5	

***BOLD=Critical Criteria that must be successfully completed.
Skills must be completed with >75% pass rate. (4/5)***

Examiner (Print & Sign)	Date	Candidate	Date
Retest Examiner (Print & Sign)	Date	Candidate	Date