## SMOC Green Jobs Academy

Crew Leader: Home Inspection & Worst-Case Combustion Safety
MASSSAVE: see ANSI/BPI Technical Standards for Building Analyst

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- > Calibrate CO Monitor, Combustible Gas Detector, Combustion Analyzer [VERIFY].
- > Inspect outside fuel sources and distribution: Natural Gas meter and pipes, Oil/Kerosene tank and fill/vent pipes, Propane tank and supply lines.

## ☐ INSIDE THE HOUSE - IS IT SAFE? Check AMBIENT CO and GAS (15 sec/room)

- > 35 ppm CO Notify, open windows & doors. Check sources, advise service.
- > Inspect indoor fuel sources and distribution:

OIL: Tank, lines, safety shut-offs, burner.

GAS and Propane: If you smell gas, notify homeowner to call the gas company.

If required, check all gas lines with gas leak detector, use bubble solution to verify leaks.

2 4	SET HOUSE in NATURAL CONDITIONS
	CLOSE: All exterior doors & windows.
	Shut off and seal window AC units.
	FIREPLACE & WOOD STOVE: Extinguish, close dampers, cover ashes w/wet paper.
	OPEN: Interior doors to rooms with returns, exhaust fans, dryer.
	TURN OFF Dryer and Exhaust Fans (bathroom, kitchen, etc.), Central Vacuum.
	Turn off and leave off: whole-house fans, attic fans, Air Conditioning.
	DRYER: Clean filter and check the exterior vent to verify it's not clogged.
	CLOSE All other doors.
	CLOSE door(s) to Combustion Appliance Zone (CAZ).
	IN THE CAZ: Close supply vents, but leave open any dedicated make-up air.
	TURN to PILOT or TURN OFF: All vented heaters, domestic hot water.
	FURNACE FILTER: Replace, or remove if dirty.
	MANOMETER: put the REF hose to Outside and the INPUT (hose) to CAZ,

FIND WORST-CASE	CAZ.	PRESSIR	К
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	Natural Conditions		TURN ON Dryer & Exhaust Fans		TURN ON Air Handler	
CAZ DOOR CLOSED	1. 🗆	pa	2. 🗆	pa	3. □	pa
CAZ DOOR OPEN					4. 🗆	pa

☐ KEEP THE HOUSE IN WORST-CASE: the *most-negative* pressure.

•	) =	· 2.75 =	pascals
Use a Timer	SPILL		CO @ 5 min
MASSAVE LIMIT:	1 min	Minimum	100 ppm
I. TURN ON SMALLEST unit (Input BTU): DHW Tank? Keep all systems running during tests.	pass/fail	pa	ppm
TURN ON OTHER units on shared flue: Heaters If Air Handler should be on, wait for it to restart.	pass/fail	pa	ppm
RETEST SMALLEST unit for Draft and Spillage.	pass/fail	pa	
. Test ALL OTHER units if any, for Spillage, Draft, CO	pass/fail	pa	ppm
If Spillage fails, retest in natural conditions.  Turn off all exhaust fans and the air handler and close the CA  WHEN FINISHED, RESET all appliances, thermostats, d		ter heater	!!, etc.
STOVETOP BURNERS: Check flame color for incomplete	combustion.		
		ndow.	
OVEN: Empty, remove debris and foil. Turn on exhaust fan of TURN ON to 500F, start a TIMER to test CO at 5 minutes Stay nearby to monitor the Ambient CO.	•		