

PERFORMANCE EVALUATION #41

STUDENT NAME: _____

CO MONITOR

DATE: _____

INITIAL EVALUATOR: _____ **Initial Evaluation: Pass** _____ **or Remediate** _____

SECOND EVALUATOR: _____ **Second Evaluation: Pass** _____ **or Remediate** _____

SCORING SYSTEM:

3 points	Describes and/or performs objectives perfectly without prompting and in appropriate time interval.
2 points	Describes and/or performs objectives satisfactorily without prompting or with minimal assistance/or completes step slower than expected.
1 point	Describes and/or performs objectives with assistance or prompting. Appears unsure of task.
0 point	Unable to perform objective adequately
NA	Objective not appropriate or unnecessary. Some steps may not be done at all clinical agencies.

The student will be able to...	0	1	2	3	NA
1. Select and gather appropriate equipment a Monitor b Mouthpiece adapter with one-way-valve c Disposable mouthpiece d Chart to interpret results e Documentation & pen					
2. **Clean hands in patient room and implement standard precautions					
3. **Explain the procedure to the patient and confirm understanding.					
4. **Attach the reusable mouthpiece adapter and disposable mouthpiece to the unit.					
5. <u>Turn unit</u> on to %COHB or CO-PPM a. Do not expose the unit to raised CO concentrations at this time. b. The unit will now zero c. It will then buzz and begin to count down 20 seconds automatically					
6. **When you hear the <u>buzz</u>, have patient perform a <u>single full deep inhalation and breath hold</u> (20 seconds) a. Breath hold countdown timer coaches for proper hold					
7. **When the indicator turns green and the screen reads "0", COACH THE PATIENT to put <u>mouthpiece in their mouth and exhale slowly & fully</u> a. If the patient cannot perform a 20 second breath hold, have them exhale anytime after the countdown has started b. The display reading will now start to rise and plateau over the next few seconds c. Results will then be held on the displayed and will be represented by the colored light indicator until the unit is turned off.					
8. **Evaluate performance of test: a. Good patient effort? b. Performed correctly?					

	0	1	2	3	NA
9. Interpret results: a. Correlates to clinical appearance? b. Determine category based on chart					
10. Turn off the unit					
11. Determine need to repeat test - wait one minute a. This allows equilibration with ambient air b. This allows the sensor to dry					
12. When finished, remove the adapter and mouthpiece a. Dispose of mouthpiece b. Process and reusable adapter (ward soapy water) c. Wipe unit with damp cloth as needed					
13. Wash hands					
14. Knowledge/Comprehension Level - Student can answer all oral review questions					

Students must pass all critical steps with a score of 2 or 3

Revised 12/2012 ma

ORAL REVIEW QUESTIONS

1. What should you do if the patient cannot do a 20 second breath hold? *Have them do the longest breath hold they can and document that with the results.*
2. What should you check before relying on the results of a CO monitor?
 - a. *Good patient effort*
 - b. *Test performed correctly*
 - c. *Correlation to clinical appearance*
3. Why is it important to wait at least one minute between tests for CO? *It allows the monitor to dry and clear of CO.*
4. How is this equipment processed between patients?
 - A. *Dispose of cardboard mouthpiece*
 - b. *Clean and reuse the adapter*
 - c. *Wipe Exterior surfaces of meter with clean, damp cloth (not the sensor) **NOTE:** Do not expose the sensor to moisture or cleaning solvents such as alcohol*
5. What is the normal value for CO? *Non-smoker %COHB 1% or Parts per million 1 - 6*
6. What is the expected value for a smoker? *%COHB >3% or Parts per million >20*
7. What is the danger level for CO? *%COHB above 20% or Parts per million (ppm) >71%*
8. If the unit is turned back on and the display reads "gas", what should you do? *Turn the unit off, remove the mouthpiece and adapter and wait another 2 minutes before reuse.*
9. If the unit is turned back on again and the display still reads "gas", what should you do? *Turn the unit off, remove the mouthpiece and adapter and wait another 3 minutes before reuse.*

10. If the unit is turned back on a third time and the display still reads “gas”, what should you do?
Turn the unit off, remove the mouthpiece and adapter and wait another 24 hours before reuse. (sensor may be contaminated with a solvent)
11. What is the problem if the device says “cel” after calibration?

If the signal from the calibration sensor is too low, a new calibration value will not be stored and the display will show “cel”. Most likely causes for this:

- a. Expired cell*
- b. No cal gas*
- c. Loose connections*

12. What is the problem if the device says “Err” after calibration?

If the signal from the calibration sensor is too high, a new calibration value will not be stored and the display will show “Err”.

- a. Most likely causes for this wrong cal gas.*

13. What are some of the indications there may be a battery problem?

- a. If the display shows “bat”, when turned on then the battery has only 30 hours of operation left*
- b. If the display says “bat” continuously, change the 9 volt battery.*
- c. If the display says “bt2” the internal sensor battery needs to be replaced by the manufacturer Micro Direct.*