PROCEDURAL COMPETENCY EVALUATION

Name _____ Date _____

Oxygen Analysis

Setting: ☐ Lab ☐ Clinical Evaluator: ☐ Peer ☐ Instructor

Conditions (describe): _____
_____

Equipment Used
_____
_____

	SATISFACTORY	UNSATISFACTORY	NOT OBSERVED	NOT APPLICABLE
Equipment and Patient Preparation				
1. Verifies, interprets, and evaluates physician's order or protocol	☐	☐	☐	☐
2. Scans chart for diagnosis and any other pertinent data and notes	☐	☐	☐	☐
3. Selects, gathers, and assembles the necessary equipment	☐	☐	☐	☐
4. Washes hands and applies standard precautions and transmission-based isolation procedures as appropriate	☐	☐	☐	☐
5. Identifies patient, introduces self and department	☐	☐	☐	☐
6. Explains purpose of the procedure and confirms patient understanding	☐	☐	☐	☐
Assessment and Implementation				
7. Assesses patient	☐	☐	☐	☐
8. Identifies the following types of oxygen analyzers: electrochemical, polarographic, and galvanic	☐	☐	☐	☐
9. States the operating principle of each type of analyzer	☐	☐	☐	☐
10. Sets up oxygen source and attaches oxygen nipple adaptor to the DISS connection of the flowmeter outlet	☐	☐	☐	☐
11. Secures the oxygen connecting tubing to the oxygen nipple adaptor	☐	☐	☐	☐
12. Checks that the analyzer is in good operating condition; makes sure that the analog scale/LED, sensor cable, and electrode or fuel cell are intact	☐	☐	☐	☐
13. Prepares analyzer for use:				
a. For the polarographic electrode analyzer, turns or presses the on/off switch	☐	☐	☐	☐
b. For the galvanic fuel cell, attaches the sensor cable to the analyzer	☐	☐	☐	☐
14. With the sensor exposed to room air, adjusts the calibration knob to read 21 percent oxygen	☐	☐	☐	☐
15. Places sensor inside a plastic bag; places oxygen connecting tubing inside the bag with the sensor; turns on the flowmeter to 10 lpm (flow needed may vary depending on the size of the bag used); loosely holds the bag closed	☐	☐	☐	☐
16. Allows analyzer reading to stabilize	☐	☐	☐	☐
17. Adjusts calibration knob to read 100 percent	☐	☐	☐	☐
18. Relocates the analyzer to a different part of the room and rechecks 21 percent calibration; adjusts if necessary	☐	☐	☐	☐
Follow-up				
19. Caps and unplugs the sensor when not in use	☐	☐	☐	☐
20. Maintains/processes equipment	☐	☐	☐	☐
21. Washes hands	☐	☐	☐	☐
22. Records pertinent data in chart and departmental records	☐	☐	☐	☐
23. Notifies appropriate personnel, makes modifications and recommendations to patient care plan	☐	☐	☐	☐

Signature of Evaluator

Signature of Student

PERFORMANCE RATING SCALE

5 EXCELLENT – FAR EXCEEDS EXPECTED LEVEL, FLAWLESS PERFORMANCE
4 ABOVE AVERAGE – NO PROMPTING REQUIRED, ABLE TO SELF-CORRECT
3 AVERAGE – THE MINIMUM COMPETENCY LEVEL, NO CRITICAL ERRORS
2 IMPROVEMENT NEEDED – PROBLEM AREAS EXIST; CRITICAL ERRORS, CORRECTIONS NEEDED
1 POOR AND UNACCEPTABLE PERFORMANCE – GROSS INACCURACIES, POTENTIALLY HARMFUL

PERFORMANCE CRITERIA	SCALE				
1. DISPLAYS KNOWLEDGE OF ESSENTIAL CONCEPTS	5	4	3	2	1
2. DEMONSTRATES THE RELATIONSHIP BETWEEN THEORY AND CLINICAL PRACTICE	5	4	3	2	1
3. FOLLOWS DIRECTIONS, EXHIBITS SOUND JUDGEMENT, AND DEMONSTRATES ATTENTION TO SAFETY AND DETAIL	5	4	3	2	1
4. EXHIBITS THE REQUIRED MANUAL DEXTERITY	5	4	3	2	1
5. PERFORMS PROCEDURE IN A REASONABLE TIME FRAME	5	4	3	2	1
6. MAINTAINS STERILE OR ASEPTIC TECHNIQUE	5	4	3	2	1
7. INITIATES UNAMBIGUOUS GOAL-DIRECTED COMMUNICATION	5	4	3	2	1
8. PROVIDES FOR ADEQUATE CARE AND MAINTENANCE OF EQUIPMENT AND SUPPLIES	5	4	3	2	1
9. EXHIBITS COURTEOUS AND PLEASANT DEMEANOR	5	4	3	2	1
10. MAINTAINS CONCISE AND ACCURATE RECORDS	5	4	3	2	1

ADDITIONAL COMMENTS: INCLUDE ERRORS OF OMISSION OR COMMISSION, COMMUNICATIVE SKILLS, AND EFFECTIVENESS OF PATIENT INTERACTION:

SUMMARY PERFORMANCE EVALUATION AND RECOMMENDATIONS

SATISFACTORY PERFORMANCE – Performed without error or prompting, or able to self-correct, no critical errors.

_____ LABORATORY EVALUATION. SKILLS MAY BE APPLIED/OBSERVED IN THE CLINICAL SETTING.

_____ CLINICAL EVALUATION. STUDENT READY FOR MINIMALLY SUPERVISED APPLICATION AND REFINEMENT.

UNSATISFACTORY PERFORMANCE – Prompting required; performed with critical errors, potentially harmful.

_____ STUDENT REQUIRES ADDITIONAL LABORATORY PRACTICE.

_____ STUDENT REQUIRES ADDITIONAL SUPERVISED CLINICAL PRACTICE.

SIGNATURES

STUDENT: _____ EVALUATOR: _____

DATE: _____ DATE: _____