Procedural Competency Evaluation

STUDENT: **DATE:**

ARTERIAL BLOOD GAS INTERPRETATION

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

Equipment Utilized: **Conditions (Describe):**

Performance Level:

S or ✓ = Satisfactory, no errors of omission or commission
U = Unsatisfactory error of omission or commission
NA = Not applicable

Performance Rating:

5 **Independent:** Near-flawless performance; minimal errors; able to perform without supervision; seeks out new learning; shows initiative; A = 4.7–5.0 average

4 **Minimally Supervised:** Few errors, able to self-correct; seeks guidance when appropriate; B = 3.7–4.65

3 **Competent:** Minimal required level; no critical errors; able to correct with coaching; meets expectations; safe; C = 3.0–3.65

2 **Marginal:** Below average; critical errors or problem areas noted; would benefit from remediation; D = 2.0–2.99

1 **Dependent:** Poor; unacceptable performance; unsafe; gross inaccuracies; potentially harmful; F = < 2.0

Two or more errors of commission or omission of mandatory or essential performance elements will terminate the procedure, and require additional practice and/or remediation and reevaluation. Student is responsible for obtaining additional evaluation forms as needed from the Director of Clinical Education (DCE).

	PERFORMANCE LEVEL	PERFORMANCE RATING
1. Obtains and analyzes an arterial blood gas sample		
2. Evaluates the pH		
3. Evaluates the $Paco_2$		
4. Evaluates the Hco_3^-		
5. Evaluates the BE		
6. Interprets the acid–base status		
7. If the acid–base status is abnormal, correctly identifies if it is a metabolic or respiratory disturbance		
8. Determines if any compensation is present		
9. Evaluates the Pao_2		
10. Evaluates the Sao_2		
11. Interprets the patient's oxygenation status		
12. Uses P-50 to determine if there is a shift in the oxygen dissociation curve		
13. Determines Cao_2 using the oxygen dissociation curve		
14. Calculates $P(A - a)Do_2$		
15. Calculates the Fio_2 needed for the desired Pao_2		

SIGNATURES Student: Evaluator: Date: