Performing Pulmonary Function Tests Competency

Rev 09-11

Student's Name:			**Date:**		
Evaluator's Name:			**ABHES/CAAHEP Standard**	9.o2.2	I.P. 1.4
Degree:	AAS ☐	Diploma ☐	**Course Name / # :**	MA157 Patient Care Sciences II	

Competency Objective:
Perform spirometer testing to measure forced vital capacity (FVC) accurately and to properly instruct patient on the use of the peak flow meter.
Equipment/Conditions:
Peak flow meter, peak flow diary, spirometer, scale for patient weight, mouth piece, nose clip, black pen, hand sanitizer or hand washing facilities. **Competency completed in fifteen (15) minutes or less.**
Accuracy Standards:
All performance mechanics must be completed accurately and professionally to pass the competency. Should the assessment render a non-proficient on any step, or if the student neglects to complete a step, the competency is not passed and will need to be attempted again. Students will receive three attempts to pass the competency. The second attempt will be scaled by 0.89, the third by 0.79.

Score		Performance Mechanics
	1.	Wash hands and don appropriate PPE. Assemble equipment and supplies.
	2.	Greet patient, introduce yourself, confirm patient identity, and describe the procedure.
	3.	Measure the patient's height, weight, blood pressure, pulse and respirations. Review medications, health history, smoking history, race and age with the patient. Patient should not have smoked prior to testing or used bronchodilators six hours prior to testing.
	4.	Have the patient remove or loosen any restrictive clothing. Patient may sit or stand during the testing. Explain the procedure and confirm patient understanding that they will be required inhale as deeply as possible and then exhale as forcefully, and completely as possible while the measurements are being taken. Explain the purpose of the nose clip and have patient place on their nose. Place clean mouthpiece on spirometer.
	5.	Hand the spirometer to the patient and perform testing. Provide verbal encouragement to patient during testing.
	6.	Have the patient rest for a short time. The test should be repeated three times successfully. Limit overall attempts to six (6). Dispose of used supplies in appropriate waste receptacle, and wash hands.
	7.	Print results and document procedure in patient's record for provider review.
	8.	Provide education on the purpose and use of a peak flow meter. Explain that they will be recording their peak expiratory flow rate (PEF) in a diary twice a day at the same time each day for two weeks.
	9.	Place the indicator for the peak flow meter at the bottom of the scale, have patient stand up straight. Instruct the patient to take a deep breath filling the lungs completely, put the mouthpiece in their mouth, lightly bite the mouthpiece and close lips around it. Blow as hard and as fast as they can. Record the number that appears on the peak flow meter indicator. Have the patient repeat these steps two more times. Record the results per protocol.
	10.	Thank patient, clean room, and wash or sanitize hands.
	11.	Document procedure in patient's record.
	12.	Throughout competency, speak professionally and adhere to HIPAA guidelines.
	13.	Laboratory dress code and professionalism policy followed throughout competency.
	14.	Task completed within 15 minutes. Start time _____ End time: _____
Total Score _____	**(Total Score ÷ # of Criteria)**	_____ _____ = _____ **Mechanics** _____% **Refer to Table for Percent**

	Initial Score	Multiply by	Final Score
First Attempt		**1.0**	
Second Attempt		**.89**	
Third Attempt		**.79**	

4.0 = 100% 3.9 = 98% 3.8 = 96% 3.7 = 94% 3.6 = 92% 3.5 = 90% 3.4 = 88%	3.3 = 86% 3.2 = 84% 3.1 = 82% 3.0 = 80% 2.9 = 79% 2.8 = 78% 2.7 = 77%	2.6 = 76% 2.5 = 75% 2.4 = 74% 2.3 = 73% 2.2 = 72% 2.1 = 71% 2.0 = 70%	1.9 = 69% 1.8 = 68% 1.7 = 67% 1.6 = 66% 1.5 = 65% 1.4 = 64% 1.3 = 63%	1.2 = 62% 1.1 = 61% 1.0 = 60% 0.9 = 59% 0.8 = 58% 0.7 = 57%

Assessment Key	
4	Demonstrates excellent performance with regards to proficiency, safety, professionalism and consistency. No reminders and/or cueing are necessary. Performance is above the level necessary for employment.
3	Performance meets expectations for proficiency, safety, professionalism and consistency. Demonstrates some hesitancy but no reminders and/or cueing are necessary. Performance is at the level necessary for employment.
2	Performance requires guidance to reach expectations for proficiency, safety, professionalism and consistency. 1-2 reminders and/or cues are necessary for non-critical aspects of competency criteria. Performance meets expectations for employment with some guidance.
0	Unacceptable performance is displayed regarding proficiency, safety, professionalism or consistency. Student needs further practice to perform skill at professional level or student was not present for evaluation.

Comments:	
Instructor Signature:	
Student Signature:	