Course Outcome Summary
Required Program Core Course
RTH 110 – Respiratory Care Techniques II

Course Information
- Division: Health Sciences
- Contact Hours: 7
- Theory: 60
- Lab Hours: 45
- Total Credits: 5

Prerequisites
- RTH 100 – Respiratory Care Techniques I
- RTH 102A - Pharmacology for Respiratory Therapists I
- RTH 104 – Cardiopulmonary Assessment
- BIO 258 – Anatomy & Physiology II

Co-requisites
- RTH 102B – Pharmacology for Respiratory Therapists II
- RTH 111 – Respiratory Clinical Practice I
- RTH 116 – Cardiopulmonary Pathophysiology

Course Description
This classroom and laboratory course continues the introduction to basic duties of respiratory care practitioners. Emphasis will be placed on patient assessment, basic therapy modalities, airway management, cardiopulmonary diagnostic equipment and techniques, and an introduction to continuous mechanical ventilation.

This course is a required core course for students pursuing an Associate of Applied Science - Respiratory Therapy Program Outcomes Addressed by this Course:
Upon successful completion of this course, students should be able to meet the program outcomes listed below:

A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

Course Outcomes
In order to evidence success in this course, the students will be able to:

1. Achieve mastery level knowledge of commonly administered respiratory care medications.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

2. List the physiologic effects of and the indications, contraindications, and hazards for the common hyperinflation and chest physical therapies.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

3. Discuss theory of operation and demonstrate proper usage of manual ventilation bags, common positive pressure hyperinflation devices, and incentive spirometers.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.
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B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

4. List the major types of artificial airways and the indications, contraindications, and hazards of each.
   
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

5. Discuss theory of and demonstrate basic skills in arterial puncture and blood gas sample processing.
   
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

6. Discuss pulmonary function testing procedures, and spirometry values indicating normal, obstructive or restrictive ventilatory patterns.
   
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

7. Demonstrate skills in the delivery of aerosolized medications from a variety of commonly used medication nebulizers (SVNs, MDIs, DPIs, and USNs).
   
   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

8. Demonstrate and discuss procedures for airway management of oral airways, ETTs, NETs, LMAs, TTs, and other additional emergency airways including associated adjunctive equipment available.
   
   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

9. Demonstrate and discuss procedures for airway including suctioning, assisting intubation and extubation, and airway maintenance.
   
   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

10. Demonstrate basic lung expansion and chest physiotherapy skills including the use of adjunctive equipment.
    
    Applies To Program Outcome
    B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

11. Demonstrate an ability to safely perform and provide basic interpretation of presented diagnostic techniques and results: respiratory physical assessment, radial artery blood sampling, screening spirometry, and electrocardiography.
    
    Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

Date Updated: 5/2019
By: IA; RL