

**Course Objectives/Course Outline
Spokane Community College**

Course Title: Fundamentals of Respiratory Care III

Prefix and Course Number: RT 261

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Demonstrate how to manage an airway, apply hyperinflation and secretion mobilization protocols
- Apply airway maintenance techniques (positioning, simple airways, NT suctioning)
- Apply emergency airway management
- Perform artificial airway management techniques
- Perform hyperinflation therapy techniques
- Perform Intermittent Positive Pressure Ventilation (IPPB)
- Evaluate when to use Bi-Level Positive Airway Pressure
- Apply Intrapulmonary percussive ventilation (IPV)
- Evaluate when to use secretion mobilization techniques (PAP, PEP, Flutter, Acapella, Aerobika, HFCWO, CPT, PD)
- Introduction to clinical simulation (NIPPV simulation – patient assessment)

Course Outline:

- I. Hyperinflation protocols
 - A. Incentive spirometry
 - B. PEP Therapy
 - C. Vibratory PEP therapy
 - D. HFCWO techniques
 - E. Chest physiotherapy and postural drainage
- II. Artificial airways
 - A. Simple airways
 - B. Endotracheal tubes
 - C. Tracheostomy tubes
 - D. Laryngectomy tubes
 - E. Tracheostomy speaking valves
- III. Airway management
 - A. Positional maneuvers
 - B. Use of simple airways
- IV. Emergency airway management
 - A. Bag/mask ventilation
 - B. Intubation
- V. Management of an artificial airway
 - A. Humidification
 - B. Secretion removal
 - C. VAP protocols
- VI. Intermittent Positive Pressure Breathing (IPPB)

- A. Bird Mark 7
- B. AARC clinical practice guidelines
- VII. Intrapulmonary percussive ventilation (IPV)
 - A. Percussionaire IPV-1
- VIII. Non-invasive mechanical ventilation
 - A. Bi-level positive airway pressure
 - B. Respironics Vision
 - C. Respironics V-60
- IX. Non-invasive positive pressure ventilation simulation