

F: Respiratory Care

Major Competency Area: **F**

Respiratory Care

Priority: **One**

Competency: **F-1**

Airway Management

Date: September 1, 2005

A Licensed Practical Nurse will:

- F-1-1 Demonstrate ability to apply clinical judgment and critical thinking skills in assessment and management of airway.**
- F-1-2 Demonstrate knowledge of human anatomy, physiology, and pathophysiology as it pertains to respiratory care.**
- F-1-3 Demonstrate ability to apply nursing process in care and teaching to clients and family in regard to respiratory conditions and complications such as:**
- acute respiratory failure
 - asthma
 - allergic reaction
 - anaphylactic reaction
 - atelectasis
 - cancer of the lung
 - chronic bronchitis
 - chronic obstruction pulmonary disease (COPD)
 - congestive heart failure
 - emphysema
 - pneumonia
 - pulmonary tuberculosis.
- F-1-4 Demonstrate ability to apply nursing process in care and teaching to client and family of actual and / or potential problems associated with respiratory disorders such as:**
- ineffective breathing pattern
 - ineffective airway clearance
 - activity intolerance
 - anxiety
 - altered nutrition
 - altered sleep pattern
 - trauma.

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Competency: **F-2**

Oxygen Therapy

Date: September 1, 2005

A Licensed Practical Nurse will:

- F-2-1 Demonstrate knowledge and ability to recognize the indications for administration of oxygen.**
- F-2-2 Demonstrate knowledge and application of types of oxygen therapy such as:**
- aerosol mask (simple face mask)
 - continuous positive airway pressure (CPAP) machine
 - high flow oximizers
 - humidification
 - nasal cannula
 - nasal catheter
 - non re-breathing mask
 - partial re-breather mask.
- F-2-3 Demonstrate safety precautions when using and maintaining oxygen therapy from wall outlets, portable tanks, and oxygen concentrator.**
- F-2-4 Demonstrate knowledge and ability to assess ongoing need for oxygen therapy using pulse oximetry:**
- recognize and report any abnormal findings:
 - on room air
 - on oxygen device
 - use oximetry devices.

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Competency: **F-3**

Suctioning

Date: September 1, 2005

A Licensed Practical Nurse will:

F-3-1 Demonstrate knowledge and ability to assess and perform suctioning as per agency policy.

F-3-2 Demonstrate knowledge and ability to use suction equipment:

- appropriate size and lumen of suction catheters
- appropriate suction pressure
- bulb suction of newborn
- portable suction
- suctioning of infant and newborn
- wall suction
- younker suction.

F-3-3 Demonstrate ability to perform suctioning considering the need for deep and shallow suction:

- frequency of suctioning
- nasopharyngeal suctioning
- oral suctioning
- oropharyngeal suctioning
- tracheostomy tube suctioning.

F-3-4 Demonstrate ability to maintain suctioning equipment.

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Competency: **F-4**

Respiratory Treatments

Date: September 1, 2005

A Licensed Practical Nurse will:

F-4-1 Demonstrate the ability to assess the client and administer respiratory treatments such as:

- auscultation of the chest
- bronchodilation agents i.e., ventolin
- client teaching
- nebulization
- pre and post peak flows.

F-4-2 Demonstrate ability to assess the need for, and be able to perform, chest physiotherapy:

- client / family teaching
- deep breathing and coughing
- encourage fluid intake
- incentive spirometer
- orthopneic position
- percussion (clapping)
- postural drainage
- relaxation
- vibration.

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Competency: **F-5**

Tracheostomy Care

Date: September 1, 2005

A Licensed Practical Nurse will:

- F-5-1 Demonstrate ability to identify the purposes of endotracheal and tracheostomy tubes.**
- F-5-2 Demonstrate knowledge and ability to perform the care of a tracheostomy using appropriate equipment and supplies:**
- changing a tracheostomy dressing
 - changing established tracheostomy
 - changing of tracheostomy ties
 - cleaning a double cannula tracheostomy tube
 - deflating / inflating a tracheostomy cuff
 - instilling solution or medication into a tracheostomy (See Competency Band U)
 - plugging a tracheostomy tube
 - suctioning
 - using manual resuscitation (Ambu bag).
- F-5-3 Demonstrate knowledge and ability to identify the purposes of mechanical ventilation.**
- F-5-4 Demonstrate ability to recognize the need and application of humidification in tracheostomy care.**
- F-5-5 Demonstrate knowledge and ability to recognize the complications, clinical manifestations, and nursing interventions related to tracheostomy care:**
- accidental dislodgment of tracheostomy tube
 - airway obstruction
 - bronchospasm
 - cuff leak
 - tracheal necrosis.
- F-5-6 Demonstrate knowledge and ability to teach tracheostomy care to the client and significant others.**

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Competency: **F-6**

Chest Tubes

Date: September 1, 2005

A Licensed Practical Nurse will:

- F-6-1 Demonstrate knowledge of anatomy and physiology of the respiratory system.**
- F-6-2 Demonstrate knowledge of the indications for chest tube insertion:**
- pneumothorax
 - hemothorax
 - tension pneumothorax
 - surgical treatment.
- F-6-3 Demonstrate ability to identify and describe the location and purpose of types of chest tubes:**
- pleural
 - mediastinal.
- F-6-4 Demonstrate ability to identify and describe the mechanisms used to drain fluid and air from the pleural cavity or mediastinum:**
- gravity
 - suction
 - underwater seal drainage.
- F-6-5 Demonstrate the knowledge and ability to identify components of the commercial chest drainage system such as:**
- air vent
 - collection chamber
 - port for adding water to system
 - suction control system
 - tubing attached to chest tube
 - water seal chamber.
- F-6-6 Demonstrate knowledge and ability to assist with the insertion of a chest tube and to set up a chest drainage system.**

A Licensed Practical Nurse will:

- F-6-7 Demonstrate knowledge and ability to identify the equipment and supplies required to care for a client with a chest drainage system.**
- F-6-8 Demonstrate ability to identify steps and the rationale underlying each step for care of a client with a chest drainage system.**
- F-6-9 Demonstrate ability to identify the nursing interventions for the following problems that can result with a chest drainage system such as:**
- continuous bubbling in the water seal chamber
 - absence of fluid fluctuation in water seal chamber
 - apparatus lifted above clients chest
 - apparatus becomes broken
 - chest tubes accidentally pulled out
 - subcutaneous emphysema.
- F-6-10 Demonstrate knowledge of chest drainage systems in the teaching of clients and significant others.**
- F-6-11 Demonstrate ability to report and document abnormal findings for a client with a chest drainage system such as:**
- hemorrhage
 - incorrect tube placement
 - infection
 - lung laceration
 - plugging of tube
 - re-expansion pulmonary edema.
- F-6-12 Demonstrate knowledge and ability to document information when caring for a client with a chest drainage such as:**
- abnormal findings
 - actions taken
 - amount and characteristics of drainage
 - assessment data
 - client's position
 - patency of system
 - presence of bubbling or fluctuation
 - type of system.