

# Course Competency

## RET 2714 PERINATAL AND PEDIATRIC RESPIRATORY CARE

### Course Description

This course is designed to provide training in pediatric and neonatal respiratory care assessment and therapeutic techniques related to critical care, assessment and therapeutic techniques related to critical care. Prerequisites: RET 2284, 2284L; Corequisites: RET 2280, 2834, 2264. (2 hr. lecture)

Course Competency	Learning Outcomes
<p><b>Competency 1:</b> The student will describe the pediatric patient assessment by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Information Literacy</li> </ol>
<ol style="list-style-type: none"> <li>1. Analyzing information reviewed during pediatric patient assessment.</li> <li>2. Evaluating level of distress by rapid assessment.</li> </ol>	
<p><b>Competency 2:</b> The student will describe Newborn assessment and surfactant therapy by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Information Literacy</li> </ol>
<ol style="list-style-type: none"> <li>1. Describing the Apgar scoring system</li> <li>2. Describing the sequence of events during fetal transition</li> <li>3. Explaining the difference between preterm, term and post term labor</li> <li>4. Describing the Apgar scoring system</li> <li>5. Listing the steps for stabilization of newborn</li> <li>6. Discussing the delivery, benefits, and adverse effects of surfactant replacement</li> </ol>	
<p><b>Competency 3:</b> The student will describe the definition, diagnosis, and treatment for meconium</p>	<ol style="list-style-type: none"> <li>1. Communication</li> </ol>

<p>aspiration, pulmonary hypertension of the newborn, infant respiratory distress syndrome, and congenital Diaphragmatic Hernia by:</p>	<ol style="list-style-type: none"> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Information Literacy</li> </ol>
<ol style="list-style-type: none"> <li>1. Describing care given to suspected meconium aspiration</li> <li>2. Describing how to define, diagnose, and treat pulmonary hypertension of the newborn</li> <li>3. Describing how to define, diagnose, and treat infant respiratory distress syndrome (IRDS)</li> <li>4. Describing how to define, diagnose, and treat congenital diaphragmatic hernia</li> </ol>	
<p><b>Competency 4:</b> The student will describe the indications and applications of oxygen therapy by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Information Literacy</li> </ol>
<ol style="list-style-type: none"> <li>1. Describing how to assess indication for oxygen delivery</li> <li>2. Describing how to assess indication for cool aerosol face mask or face tent</li> <li>3. Describing how to assess indication for oxygen hood</li> <li>4. Describing how to assess indication for high flow nasal cannula</li> </ol>	
<p><b>Competency 5:</b> The student will describe advanced airway management of the neonate by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Information Literacy</li> </ol>
<ol style="list-style-type: none"> <li>1. Identifying indications and complications of intubation</li> <li>2. Identifying initial conventional ventilator setting</li> <li>3. Explaining criteria for extubation</li> <li>4. Defining high frequency ventilation</li> <li>5. Differentiating between conventional and</li> </ol>	

<p>high frequency ventilation</p> <ol style="list-style-type: none"> <li>6. Identifying initial settings for high frequency ventilation</li> <li>7. Identifying pneumothorax via transillumination</li> <li>8. Identifying need to obtain capillary blood gas sample</li> <li>9. Explaining common anatomical blood gas sampling sites and possible complications</li> <li>10. Identifying indications, contraindications, and purpose of continuous positive airway pressure (CPAP)</li> <li>11. Describing monitoring strategies used for CPAP success or failure</li> <li>12. Identifying indications, contraindications, and purpose of invasive mechanical ventilation</li> </ol>	
<p><b>Competency 6:</b> The student will describe the assessment of congenital cardiac defects by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Information Literacy</li> </ol>
<ol style="list-style-type: none"> <li>1. Identifying fetal shunts</li> <li>2. Describing how to define, diagnose, and treat patent ductus arteriosus</li> <li>3. Describing how to define, and treat arterial septal defect</li> <li>4. Describing how to define, diagnosis and treat ventricular septal defect</li> <li>5. Describing how to define, diagnosis and treat tetralogy of fallot</li> <li>6. Describing how to define, diagnosis and treat of the great arteries</li> </ol>	

Updated: FALL TERM 2022