

Clinical/Respiratory Care (RSPT 1461)



Credit: 4 semester credits (0hours lecture, 32 hours clinic/lab)

Prerequisite: RSPT 1329, RSPT 1207, RSPT 2310, RSPT 1113, RSPT 1325, RSPT 1331, RSPT 1335, RSPT 2353, RSPT 1360

Co-requisite:

Course Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Required Textbook and Materials (furnished by students)

- A. Scrubs
 - B. Lab Coat
 - C. watch with second hand
 - D. goggles
 - E. Scissors
 - F. Stethoscope
 - G. Black pens
 - H. Calculator
 - I. Name badge
 - J. LIT Patch
 - K. Tokens for modules- www.ketteringseminars.com
 - L. DataArc access
 - M. Current Healthcare Provider Certification- CPR
 - N. Daily clinical notebook
 - O. Textbook of Neonatal Resuscitation- 5th edition (ISBN # 978-1-58110-187-4)
 - P. PALS course Guide and pals Provider Manual
(American Heart Association Item # 80-1434)
- Recommended text:
- O. Dana Oaks pocket guide for Respiratory Care (ISBN # 0-932887-00-7)

Course Objectives

Upon completion of the course, the student will be able to:

As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

- Applies text book learning plans, the theory, concepts and skills that are involved with the use of specialized materials and tools. (SCANS F1, F6, F7, F8, F9, F12)
- Explains while demonstrating equipment procedures (SCANS F6, F16, F14, F16 C14, C12, C15, C15, C16, C18, C19, C20)
- Maintains patient confidentiality by practicing regulations, laws and HIPPA standards (SCANS F5, F12, F13, F16, F17, C11,)
- Concentrates on safety practices through information from the chart and patient history by using the necessary precautions on ALL patients (SCANS C15, C14, C13, C11, C7, C5, F13, C8)
- Works as a team member (SCANS C12, C9)
- Demonstrates appropriate written and verbal communication skills by using the correct terminology of the medical profession (SCANS F1, F2, F3, F5, F6, F7, F8, F9, C5, C7,)
- Perform and demonstrate competency of the following procedures:
Incentive Spirometry, Chest Physiotherapy, Coughing, Breathing Exercises, Mucus Clearance adjuncts, Intrapulmonary Percussive Ventilation, Tracheal suctioning (nasal or endotracheal- sterile technique), Inline suctioning, Securing Artificial Airway, Tracheostomy Care, Transport with oxygen, Intermittent Positive Pressure Breathing (SCANS: F8, C7, C10, C15, C16, C18, C19, C20)

SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

Course Outline

Competencies required for completion of this course.

A. Incentive Spirometry

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

B. Chest Physiotherapy

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response

4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

C. Coughing

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

D. Breathing Exercises

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

E. Mucus Clearance Adjuncts

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

F. Intrapulmonary Percussive Ventilation

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)

6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

G. Tracheal suctioning (nasal or endotracheal- sterile technique)

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

H. Inline Suctioning

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

I. Securing Artificial Airway

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

J. Tracheostomy Care

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)

6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

K. Transport with oxygen

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

L. Intermittent Positive Pressure Breathing

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure (indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

Grade Scale

A = 93 - 100
 B = 85 - 92
 C = 77 - 84
 D = 68 - 75
 F = less than 68

Course Evaluation

Final Grades will be calculated according to the following criteria.

Daily clinical grade:	60%
Modules:	5 %
Final Exam	10%
NALS exams	10%
(first attempt scores on each module)	
Pediatric Advanced Life Support	
exam (first attempt)	10%
Physician contact:	5%

Student must demonstrate competency in all procedures of the course outline. Student will receive a F in the course if competency is not obtained.

Student must obtain the NRP certification (neonatal resuscitation)

Student must obtain the PALS certification

Course requirements

- A. Competency in all procedures in Course Outline.
- B. Modules: (www.ketteringseminars.com) – must turn in grade sheet and your written review of the module.
 - RRT
 - Equipment #1
 - Equipment #2
 - Equipment troubleshooting
 - PFT testing #1
 - ABG #1
 - Airway care #1
 - Patient assessment #1
 - Patient assessment #2
- C. Completion of two affective evaluations. If student receives a score of 3 or less, the RC handbook will be followed with appropriate sanction. Student must show improvement in the deficient area in order to continue in the RC Program.
- D. 20 Physician Contact points.
- E. NRP certification
- F. Pediatric Advance Life support certification

Course Policies

- 1. As outlined in the Respiratory Care Handbook.
- 2. Two allowed absences (two - 8 hour shift)

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office located in the Cecil Beeson Building.

Course Schedule

This course requires 32 hours per week in the assigned clinical facility. Daily assignments are distributed by the clinical instructor.

Contact Information

Instructor: Director of Clinical Education
Cynthia McKinley, RRT
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