

Clinical/Respiratory Care (RSPT 1461)



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

Prerequisite: RSPT 1329, RSPT 1207, RSPT 2210, RSPT 1213, RSPT 1325, RSPT 1331, RSPT 1335, RSPT 1360

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 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. Phone for Trajecsyst access
- L. Current Healthcare Provider Certification- CPR

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.
- Explains while demonstrating equipment procedures
- Maintains patient confidentiality by practicing regulations, laws and HIPPA standards
- Concentrates on safety practices through information from the chart and patient history by using the necessary precautions on ALL patients
- Works as a team member
- Demonstrates appropriate written and verbal communication skills by using the correct terminology of the medical profession
- Perform and demonstrate competency of the following procedures:
Incentive Spirometry, Chest Physiotherapy, Coughing, Breathing Exercises, Mucus Clearance Adjuncts, Tracheostomy Care, Transport with oxygen, Spirometry, He Dilution or nitrogen washout or plethsmography, Diffusion Studies, PFT QA, ABG analysis, ABG QA, Transcutaneous monitoring

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. 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.

G. 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.

H. Transcutaneous monitoring

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. 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.

J. Nitrogen Washout or Helium dilution or Plethysmography

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. Diffusion Studies

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. PFT Quality Assurance

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.

M. Arterial Blood Gas Analysis

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.

N. Arterial Blood Gas Quality Assurance

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 = 90 -100
- B = 80 - 89
- C = 70-79
- D = 60-69
- F = less than 60

Course Evaluation

Final Grades will be calculated according to the following criteria.

Weekly clinical grade:	35%
Modules:	10 %
Final Exam	35%
2 Affective evaluations	15 %
Physician contact: (20 points)	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.

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.
 - Airway Care- modules A and B
 - Therapeutic Procedures A,B and C
 - Pulmonary Diagnostics A, B, C
- 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.

Course Policies

- 1. As outlined in the Respiratory Care Handbook.
- 2. Three allowed absences (three - 8 hour shifts)
- 3. Three absences are allowed without makeup and 3 approved absences with make up. However if you go above the three allowed without make up your overall clinical grade will be reduced by a letter grade. Therefore a total of 7 absences will automatically result in course failure.

If a student has perfect attendance they may take the last three days of clinics off as long as all the coursework is completed and submitted prior these days being taken off.

As Outlined in the Respiratory Care Handbook.

According to LIT policy: Students with approved absences shall be allowed to make up examinations and written assignments without penalty. This privilege does not extend to unapproved absences. The determination of whether an absence is excused or approved is the responsibility of the instructor, except in the case of approved absence for an Institute-sponsored activity. If absences seriously interfere (whether approved or not) with performance the instructor may recommend to the Department Chair that the student be dropped from the course.

Students are to follow the absenteeism policy for each course as defined in the course syllabi.

If the policy is not followed the student may enter into a Level I or II offense as defined in the Code of Conduct and Disciplinary Policy. All approved excessive absences within the clinical setting will be made up. The date and time for makeup will be arranged by the Director of Clinical Education. It is the student's responsibility to notify and provide documentation to the Director of Clinical Education for each absence over the number allowed.

Technical Requirements (for courses using Blackboard)

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:
https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

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.

Student Code of Conduct Statement

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

RSPT 1461
Summer III 2025

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

Office: Multipurpose Center, office #241

Telephone: 409-880-8851

E-mail: cindy.mckinley@lit.edu

Office hours: Posted outside office. Additional times available with appointment. Available for remediation or tutoring.