



## Course Number and Title: RCT 251 Clinical Respiratory Care I

**Campus Location:**

Georgetown, Wilmington

**Effective Date:**

2020-51

**Prerequisite:**

RCT 130, ENG 102

**Co-Requisites:**

RCT 231

**Course Credits and Hours:**

2.00 credits

0.00 lecture hours/week

8.00 lab hours/week

**Course Description:**

This course applies respiratory care techniques in a patient care setting. Topics include application of infection control, patient assessment, oxygen therapy, bronchial hygiene, aerosol therapy, and professional communication.

**Required Text(s):**

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

**Additional Materials:**

Instructor handouts

**Schedule Type:**

Classroom Course

**Disclaimer:**

None

**Core Course Performance Objectives (CCPOs):**

1. Apply the skills and behaviors related to infection control. (CCC 2, 3, 4, 5, 6; PGC 1, 2, 3)
2. Apply the skills related to basic patient assessment. (CCC 1, 2, 3, 4, 5, 6, 6; PGC 1, 2, 3)
3. Use and interpret data relative to the field. (CCC 1, 4, 5; PGC 1, 2, 3)
4. Demonstrate behaviors related to effective professional communication. (CCC 1, 3, 4, 5; PGC 2, 3)
5. Apply the skills and behaviors related to advanced patient assessment. (CCC 1, 2, 4, 5, 6; PGC 1, 2, 3)
6. Apply the skills and behaviors related to the delivery of oxygen therapy. (CCC 1, 2, 4, 5, 6; PGC 1, 2, 3)
7. Apply the skills and behaviors related to bronchial hygiene therapy. (CCC 1, 2, 4, 5, 6; PGC 1, 2, 3)
8. Apply the skills and behaviors related to secretion clearance and lung expansion therapy. (CCC 1, 2, 4, 5, 6; PGC 1, 2, 3)
9. Apply the skills and behaviors related to aerosol therapy. (CCC 1, 2, 4, 5, 6; PGC 1, 2, 3)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

**Measurable Performance Objectives (MPOs):**

Upon completion of this course, the student will:

1. Apply the skills and behaviors related to infection control.
  1. Describe the importance of maintaining asepsis while performing routine patient care.
  2. Perform proper hand washing technique.
  3. Employ asepsis technique while performing respiratory therapy procedures.
  4. Define and differentiate among procedures used for patient isolation.
  5. Perform proper isolation technique.
  6. Perform a clinical competency for infection control.
2. Apply the skills related to basic patient assessment.
  1. Explain implementation of basic patient assessment procedures.
  2. Describe the patient characteristics to be monitored through systematic observation techniques.
  3. Collect and accurately interpret vital sign data.
  4. Collect and accurately interpret respiratory data obtainable through observation, auscultation, and palpation of the chest.
  5. Perform a clinical competency for basic patient assessment.

3. Use and interpret data relative to the field.
  1. Describe the importance of recording and using the data that appears on a patient's chart.
  2. Review a patient's chart, and select data that is pertinent to the prescribed therapy.
  3. Ensure that the correct procedure is performed on the correct patient.
  4. Record the results of respiratory therapy administration on a patient's chart.
  5. Perform a clinical competency for data management.
4. Demonstrate and apply the skills and behaviors related to effective professional communication.
  1. Describe the importance of effective communication skills for respiratory therapy personnel.
  2. Explain to a patient the purpose and method of performing a respiratory therapy procedure and what is expected of the patient during the procedure.
  3. Effectively communicate with the patient to gain cooperative rapport.
  4. Effectively communicate with other hospital personnel regarding patient welfare.
  5. Perform a clinical competency for effective professional communication.
5. Apply the skills and behaviors related to advanced patient assessment.
  1. Explain the rationale for assessment of ventilatory status.
  2. Explain the indications for the collection of an arterial blood sample.
  3. Explain the purpose of the Allen test.
  4. Perform the procedures required for arterial blood sampling.
  5. Obtain, interpret, and explain arterial blood gas results.
  6. Use non-invasive monitoring tools in the clinical setting.
  7. Interpret the information obtained through the use of non-invasive monitoring.
  8. Perform a clinical competency for advanced patient assessment.
6. Apply the skills and behaviors related to the delivery of oxygen therapy.
  1. Describe the theoretical concepts involved in respiration.
  2. Explain the goals, hazards, and effectiveness of oxygen therapy.
  3. Describe the capabilities, limitations, and clinical usefulness of oxygen delivery devices.
  4. Describe the evaluation tools and techniques relating to the administration and evaluation of oxygen therapy.
  5. Present essential information required to address the goals, hazards, and effectiveness of oxygen therapy.
  6. Given a clinical setting involving oxygen therapy, formulate a treatment plan to:
    1. Gather appropriate information.
    2. Employ pertinent assessment modalities.
    3. Identify goals, hazards, and effectiveness of therapy.
    4. Select equipment for optimal delivery of patient care.
    5. Demonstrate effective communication skills, and properly coach patients.
    6. Modify care in response to changing patient conditions.
    7. Document and/or report findings in accordance with hospital policy.
  7. Perform a clinical competency for simple oxygen therapy.
7. Apply the skills and behaviors related to bronchial hygiene therapy.
  1. Describe normal mucociliary clearance mechanisms.
  2. Describe the pathophysiology of retained secretions.
  3. Describe etiologies and clinical manifestations of retained secretions.
  4. Perform a clinical competency for bronchial hygiene therapy.
8. Apply the skills and behaviors related to secretion clearance and lung expansion therapy.
  1. Describe terms appropriate for secretion clearance and lung expansion therapies.
  2. Describe the theoretical concepts of sustained maximum inspiration (SMI) therapy.
  3. Explain the goals, hazards, and effectiveness of SMI therapy.
  4. Describe the capabilities, limitations, and clinical usefulness of secretion clearance and lung expansion therapy.
  5. Describe the evaluation tools and techniques relating to the administration and evaluation of secretion clearance and lung expansion therapy.
  6. Explain the essential information required to address goals, hazards, and effectiveness of secretion clearance and lung expansion therapy.
  7. Given a clinical setting involving secretion clearance or lung expansion therapy, formulate a treatment plan to:
    1. Gather appropriate information pertaining to SMI therapy.
    2. Employ patient assessment modalities.
    3. Identify goals, hazards, and effectiveness of therapy.
    4. Select equipment for the optimal delivery of patient care.
    5. Demonstrate effective communication skills, and properly coach patients.
    6. Modify care in response to changing patient conditions.
    7. Document and/or report findings in accordance with hospital policy.
  8. Perform a clinical competency for secretion clearance and lung expansion therapy.
9. Apply the skills and behaviors related to aerosol therapy.
  1. Describe the theoretical concepts of aerosol therapy.
  2. Explain the goals, hazards, and effectiveness of aerosol therapy.
  3. Describe the capabilities, limitations, and clinical usefulness of aerosol therapy devices.
  4. Explain the evaluation tools and techniques relating to the administration and evaluation of aerosol therapy.
  5. Present the essential information required to address goals, hazards, and effectiveness of aerosol therapy.
  6. Given a clinical situation involving aerosol therapy, formulate a treatment plan to:

1. Gather appropriate information pertaining to aerosol therapy.
  2. Employ patient assessment modalities.
  3. Identify goals, hazards, and effectiveness of therapy.
  4. Select equipment for the optimal delivery of patient care.
  5. Demonstrate effective communication skills, and properly coach patients.
  6. Modify care in response to changing patient conditions.
  7. Document and/or report findings in accordance with hospital policy.
7. Perform a clinical competency for aerosol therapy.

**Evaluation Criteria/Policies:**

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

**Core Curriculum Competencies (CCCs are the competencies every graduate will develop):**

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

**Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):**

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1. Apply theoretical information that leads to an appropriate action in the application or delivery of respiratory care procedures.
2. Perform technical skills in the implementation of respiratory care procedures within a plan of care.
3. Practice behaviors that are consistent with professional and employer expectations/requirements of their employees.

**Disabilities Support Statement:**

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.