

Respiratory Care Educators and Department Managers

Maximize your students and practitioners chance for success
at passing the Respiratory Therapy Examination!

As you know, the 2027 Respiratory Therapy Examination (RTE) with the new Breadth of Knowledge Detailed Content Outline (DCO) plus the Depth of Clinical Judgment Portion is effective for exams starting January 2027. That's just around the corner now.

For most of the last year and a half we've spent our waking hours working on software design, writing a bank of test questions that meet the strict requirements set by the 2027 Respiratory Therapy Examination DCO, and coding each of the 34 new software programs.

The result is a brand new suite of software that includes a comprehensive Breath of Knowledge Content Companion, Depth of Clinical Judgment Content Companion, 5 full-length 60-question Self-Evaluation Depth of Clinical Judgment Examinations, and 5 full-length 185-question Self-Evaluation Respiratory Therapy Examinations, plus an extensively revised Respiratory Administrator, now known as the RTE Administrator.

This 2027 software update with our new suite of respiratory programs has been the most intense and challenging of our 30+ years of providing software for Respiratory Care Programs.

Advantages of purchasing software from C&S Solutions vs purchasing services from a cloud provider:

- ✓ NO per student fees! With our software, there is no limit to the number of students who have access to the software. Past, present AND future students have access at no additional cost!
- ✓ NO 6 month/12 month renewal fees! Our software remains relevant for years to come, with no additional costs after purchase.
- ✓ NO loss of service, support or access to the software! If the cloud provider ceases operations, there is little to nothing you can do about it. You and your students have lost access to everything permanently.
- ✓ NO downtime when the cloud provider experiences glitches, outages, data breaches, or poor bandwidth - no connection means no access!

With our generous site license, our software may be installed and run on any campus-owned computer, plus you have full control over student access.

And now, we're considering allowing student access to your school's purchased programs by providing a student version that may be installed and run on their personal PC. However, there would need to be conditions, restrictions and close monitoring to prevent abuse. To provide feedback if this service is something you would be interested in, please email support@cssolutions.biz.

Software Prices

5 Self-Evaluation Respiratory Therapy Examinations (RTE):

- ❖ **Each RTE Program: \$650.00**
- ❖ **-OR- purchase all 5 RTE Programs for a 10% discount (\$2925.00 total – a savings of \$325.00)**
- ❖ **-OR- upgrade your C&S Solutions TMC/CSE Programs for \$550.00 per RTE program (a discount of \$100 per program)**

5 Self-Evaluation Depth of Clinical Judgment Examinations (DCJ):

- ❖ **Each DCJ Program: \$300.00**
- ❖ **-OR- purchase all 5 DCJ Programs for a 10% discount (\$1,350.00 total – a savings of \$150.00)**

8 Depth of Clinical Judgment Content Companion (DCC) Modules:

- ❖ **Each DCC Module: \$350.00**
- ❖ **-OR- purchase all 8 DCC Modules for a 10% discount (\$2520.00 total – a savings of \$280.00)**

16 Breadth of Knowledge Content Companion (BCC) Modules:

- ❖ **Each BCC Module: \$250.00**
- ❖ **-OR- purchase all 16 BCC Modules for a 10% discount (\$3600.00 total – a savings of \$400.00)**

For ultimate savings - purchase ALL 34 of our newly developed Respiratory Software Programs for a total of \$9,950.00 - a savings of \$1,600.00 which averages about \$293 per program

Available Media: Thumb Drive

Software System Requirements

Windows operating system version 10 or later. Programs must be installed and run from the hard drive or network drive.

**FREE Shipping via
USPS Priority Mail
(USA only)**

The RTE Administrator is a companion program that helps educators manage the Respiratory Software Programs – and best of all – it is available FREE with your Respiratory Software purchase.

RTE Administrator

Main Menu

- ✧ *Students: Add, Edit, Delete, Set Login Names & Login Passwords*
- ✧ *Assignments: By Student or By Program*
- ✧ *View Score Reports: By Student, By Program, or By All Reports*
- ✧ *Maintenance: Backup or Restore Database Files and Score Reports*
- Programs: Set Security, Password, Teach/Test, Timed/Untimed*
 - ✧ *Self-Evaluation Respiratory Therapy Examinations*
 - ✧ *Self-Evaluation Depth of Clinical Judgment Examinations*
 - ✧ *Breath of Knowledge Content Companion Modules*
 - ✧ *Depth of Clinical Judgment Content Companion Modules*

The RTE Administrator contains five primary sections:

- ✧ **Students:** Add, Edit, Delete, Set Login Names & Login Passwords.
- ✧ **Assignments:** By Student or by Program. Assign one or more programs to an individual student, or assign one or more students to an individual program.
- ✧ **View Score Reports:** By Student, By Program, or By All Reports. View a record of each and every student who has accessed the Respiratory Software Programs. If the student received a score report, the complete score report that the student received is shown. If the student exited the program before receiving a score report, a record of the time, date, student name, and the statement that the student viewed the questions of the program but exited before receiving a score report is shown.
- ✧ **Maintenance:** Backup or Restore Database Files and Score Reports. This feature allows you to make a backup copy or restore the RTE Administrator's database file or to make a backup copy or restore student score reports, as well as the ability to delete student score records that are outdated and no longer need.

- ✧ **Programs:** Set Security, Password, Teach/Test, Timed/Untimed.

Set Security: This feature allows you to set a software program to either Locked mode or Open Enrollment mode. Locked mode – anyone accessing the program must have a valid Login Name and Login Password and be assigned to the program. Open Enrollment – anyone may access the program.

Set Password: This feature allows you to set your own customized password for each software program. This feature is optional. If you don't set a password, the program will not ask for a password upon entry into the program. If you choose to set a password, the program will request the password upon entry into the program. If the program is password protected, no one may access the program without knowing the correct password.

Set Teach/Test: This feature allows you to choose whether you want your students to view their correct answers and the rationale for the correct answer. Each software program can be individually set to either the teach mode or test mode.

Set Timed/Untimed: This feature allows you to set a program to timed mode (4 hours for the RTE programs) or untimed mode (no time limit). This feature is only available for the RTE programs, all other programs do not need to be timed.

The RTE Administrator is password protected. You may change the password at any time by choosing "change the RTE Administrator password" from the Main Menu.

Use the RTE Administrator with each software program to set program security, program password, teach/test mode, timed/untimed mode (only applicable to the RTE programs), student assignments, and view users' score reports.

Visit us at www.cssolutions.biz for detailed program descriptions and screenshots

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Self-Evaluation Respiratory Therapy Examinations (RTE)

5 full-length 185-question Self-Evaluation Respiratory Therapy Examinations!

Each Self-Evaluation Respiratory Therapy Examination (RTE) features the following:

- ❖ Format follows the actual credentialing RTE. Includes 185 multiple-choice questions (160 scored questions plus 25 pretest questions) that meet the strict requirements set by the 2027 Detailed Content Outline (DCO).
- ❖ Each self-evaluation examination presents the test questions in a random order. Each user will have a different order of test questions. The answers to each test question are also randomly presented. Each user will have a different order in which the test answers are presented.
- ❖ The score report section is a detailed report of the user's score and is fashioned in a similar manner as the report the user will receive after taking the actual credentialing examination. The user has the opportunity to print the score report and evaluate his/her areas of weakness and areas of strength. The score report is also available to the educator in the RTE Administrator.
- ❖ After the user views the score report, he/she will have the opportunity to go back through the examination (if the educator has set the program to teach mode) and view his/her correct answers. While viewing answers, the user is provided feedback that explains the rationale behind the correct response.
- ❖ Each test question's feedback lists the question's task and content item from the 2027 DCO (e.g., I.A.2.).

Self-Evaluation Respiratory Therapy Examination

Score Report

BREADTH OF KNOWLEDGE CONTENT

I. PATIENT DATA

- A. Evaluate Data in the Patient Record**
- B. Perform Clinical Assessment**
- C. Perform Procedures to Gather Clinical Information**
- D. Evaluate Procedure Results**
- E. Recommend Diagnostic Procedures**

II. MANAGEMENT of DEVICES / PATIENT SAFETY PROCEDURES

- A. Troubleshoot Devices During and After Assembling**
- B. Ensure Infection Prevention, Safety, and Performance**

III. INITIATION AND MODIFICATION OF INTERVENTIONS

- A. Maintain a Patent Airway Including Artificial Airways**
- B. Perform Airway Clearance / Lung Expansion Techniques**
- C. Support Oxygenation and Ventilation**
- D. Administer Medications and Specialty Gases**
- E. Make / Recommend Changes to the Respiratory Care Plan**
- F. Use Evidence-Based Practice**
- G. Provide Respiratory Care in High-Risk Situations**
- H. Assist a Physician / Provider in Performing Procedures**
- I. Interact with Team Members, Patients, and Families**

DEPTH OF CLINICAL JUDGMENT CONTENT

1. ADULTS

- A. Chronic Lung Disease**
 - 1. Intubation and Invasive Mechanical Ventilation**
 - 2. Noninvasive Management**
 - 3. Outpatient Management**
 - 4. Evaluation For a New Diagnosis**
- B. Trauma**
- C. Cardiovascular**
- D. Neurological or Neuromuscular**
- E. Medical**
 - 1. Infectious Disease**
 - 2. Acute Respiratory Distress Syndrome**
 - 3. Other**
- F. Pre-and Post-Operative Care**

2. CHILDREN

- A. Pediatric**
- B. Neonatal**
 - 1. Resuscitation**
 - 2. Respiratory Distress Syndrome**

Clinical Judgment Type:

- Information Gathering**
- Decision Making**

Setting:

- In a Hospital**
- Outside a Hospital**

Self-Evaluation Depth of Clinical Judgment Examinations (DCJ)

5 full-length 60-question Self-Evaluation Depth of Clinical Judgment Examinations!

Each Self-Evaluation Depth of Clinical Judgment Examination (DCJ) features the following:

- ❖ Format follows the actual credentialing Depth of Clinical Judgment Portion of the RTE examination. Includes 60 multiple-choice questions that meet the strict requirements set by the 2027 DCO.
- ❖ Each self-evaluation examination presents the test questions in a random order. Each user will have a different order of test questions. The answers to each test question are also randomly presented. Each user will have a different order in which the test answers are presented.
- ❖ The score report section is a detailed report of the user's score and is fashioned in a similar manner as the report the user will receive after taking the actual credentialing examination. The user has the opportunity to print the score report and evaluate his/her areas of weakness and areas of strength. The score report is also available to the educator in the RTE Administrator.
- ❖ After the user views the score report, he/she will have the opportunity to go back through the examination (if the educator has set the program to teach mode) and view his/her correct answers. While viewing answers, the user is provided feedback that explains the rationale behind the correct response.
- ❖ Each test question's feedback lists the question's task and content item from the 2027 DCO (e.g., III.E.2.).

Depth of Clinical Judgment Examination

Score Report

Patient Condition Type	SCORE
1. ADULTS	
A. Chronic Lung Disease	
1. Intubation and Mechanical Ventilation	5
2. Noninvasive Management	6
3. Outpatient Management	3
4. Evaluation For a New Diagnosis	3
B. Trauma	4
C. Cardiovascular	5
D. Neurological or Neuromuscular	4
E. Medical	
1. Infectious Disease	5
2. Acute Respiratory Distress Syndrome	5
3. Other	5
F. Pre-and Post-Operative Care	5
2. CHILDREN	
A. Pediatric	4
B. Neonatal	
1. Resuscitation	3
2. Respiratory Distress Syndrome	3

Clinical Judgment Type:

Information Gathering: 20

Decision Making: 40

Setting:

In a Hospital: 46

Outside a Hospital: 14

Depth of Clinical Judgment Content Companion Modules (DCC)

*8 modules that correspond to each of the 8
patient condition types listed in the
Depth of Clinical Judgment Portion*

Patient Condition Type

ADULTS:

1. A. Chronic Lung Disease
1. B. Trauma
1. C. Cardiovascular
1. D. Neurological or Neuromuscular
1. E. Medical
1. F. Pre- and Post-Operative Care

CHILDREN:

2. A. Pediatrics
2. B. Neonatal

The DCC modules feature the following:

- ❖ Each module conforms to the requirements set for the patient condition type being tested.
- ❖ Combined, the 8 DCC modules contain over one thousand test questions with each question placed in its appropriate test bank.
- ❖ Each module contains 25 test banks in which each test bank contains a minimum of 5 questions (many have more than 5) that cover each of the 25 topics listed on the score report.
- ❖ Each module's score report's 25 test topics is unique to the module and is based on the patient condition type and any pertinent topics specific to the patient condition type.
- ❖ Each module pulls one random question from each of the test banks included in the module and then presents those test questions in a random order. It is highly doubtful that the user will see the same test question twice, but it can happen (depending on the random number generator and also how many times the user completes an exam of that module); however, the user will never see all the exact same test questions from that particular exam when taking subsequent exams. There will always be new test questions the user has never seen.
- ❖ After viewing the score report, the user has the opportunity to print the score report and evaluate his/her areas of weakness and areas of strength. The score report is also available to the educator in the RTE Administrator.
- ❖ After the user views the score report, he/she will have the opportunity to go back through the examination (if the educator has set the program to teach mode) and view his/her correct answers. While viewing answers, the user is provided feedback that explains the rationale behind the correct response.

Depth of Clinical Judgment Content Companion 1, A

Score Report

ADULT, CHRONIC LUNG DISEASE

A. Intubation And Invasive Mechanical Ventilation

1. Intubate and Initiate Mechanical Ventilation (DM)
2. Set Initial Ventilator Settings (DM)
3. Maintain or Change a Ventilator Setting (DM)
4. Resolve Auto-PEEP (DM)
5. Resolve a Problem with the Ventilator (DM)
6. Resolve a Problem with the Endotracheal Tube (DM)
7. Evaluate/Review Diagnostic Data (IG)
8. Spontaneous Breathing Trial (DM)

B. Noninvasive Management

1. Initiate BiPAP (DM)
2. Set Initial BiPAP Settings (DM)
3. Maintain or Change BiPAP Settings (DM)
4. Wean or Discontinue BiPAP Therapy (DM)
5. Assist with Secretion Clearance or Lung Expansion (DM)
6. Initiate, Maintain, or Adjust Oxygen Therapy (DM)
7. Administer Aerosolized Therapies (DM)
8. Evaluate/Review Clinical Information (IG)

C. Outpatient Management

1. Recommend Aerosolized Therapies (DM)
2. Assist with Discharge Planning (DM)
3. Pulmonary Rehabilitation/Exercise Education (DM)
4. Evaluate Procedure Results (IG)
5. Respiratory Home Care (DM)

D. Evaluation For A New Diagnosis

1. Evaluate Data to Confirm a Diagnosis (IG)
2. Interpret Data to Diagnose a Primary Disorder (IG)
3. Interpret PFT Results and Classify the Severity (IG)
4. Diagnosis for a New Superimposed Condition (IG)

Visit us at www.cssolutions.biz to view
each of the 8 DCC's Score Report topics.

Breadth of Knowledge Content Companion Modules (BCC)

16 modules that correspond to each of the 16 task categories listed in the 2027 Breadth of Knowledge DCO

- I. PATIENT DATA (5 task categories: A, B, C, D, E)**
- II. MANAGEMENT of DEVICES and PATIENT SAFETY PROCEDURES (2 task categories: A, B)**
- III. INITIATION and MODIFICATION of INTERVENTIONS (9 task categories: A, B, C, D, E, F, G, H, I)**

The Breadth of Knowledge Content Companion (BCC) modules feature the following:

- ❖ Combined, the 16 BCC modules contain approximately two thousand test questions with each question placed in its appropriate test bank.
- ❖ Every content item listed in the 2027 DCO (which includes every “for example”) has a test bank. For example: task I, E (Recommend Diagnostic Procedures) in the 2027 DCO has a total of 23 content items, so BCC module I, E has 23 test banks.
- ❖ Each test bank of each module contains a minimum of 5 test questions (many have more than 5).
- ❖ There are a total of 352 content items (which includes every “for example”) in the 2027 DCO, which means the 16 BCC modules contain a total of 352 test banks consisting of a minimum of 5 test questions per test bank.
- ❖ Each module pulls one random question from each of the test banks included in the module and then presents those test questions in a random order. It is highly doubtful that the user will see the same test question twice, but it can happen (depending on the random number generator and also how many times the user completes an exam of that module); however, the user will never see all the exact same test questions from that particular exam when taking subsequent exams. There will always be new test questions the user has never seen.
- ❖ The score report section is a detailed report of the user's score which consists of every content item (which includes every “for example”) in the tested task. The user has the opportunity to print the score report and evaluate his/her areas of weakness and areas of strength. The score report is also available to the educator in the RTE Administrator.
- ❖ After the user views the score report, he/she will have the opportunity to go back through the examination (if the educator has set the program to teach mode) and view his/her correct answers. While viewing answers, the user is provided feedback that explains the rationale behind the correct response.

Breath of Knowledge Content Companion I, E

Score Report

I. PATIENT DATA

E. Recommend Diagnostic Procedures

1. Testing for tuberculosis
2. Laboratory tests, for example,
 - CBC and differential
 - IgE
 - Electrolytes
 - coagulation studies
 - sputum culture and sensitivities
 - cardiac biomarkers
 - respiratory pathogen studies
3. Imaging studies
4. Bronchoscopy - diagnostic, therapeutic
5. Bronchoalveolar lavage (BAL)
6. Pulmonary function testing (spirometry, lung volumes, DLCO)
7. Noninvasive monitoring, for example,
 - SpO₂
 - SpCO
 - capnography
 - transcutaneous
8. Blood gas and/or CO-oximetry
9. ECG
10. Exhaled gas analysis, for example,
 - CO₂
 - CO
11. Hemodynamic monitoring
12. Sleep studies
13. Thoracentesis