



## 2012 CANDIDATE GUIDE

# ELECTRONIC FETAL MONITORING

*Congratulations on taking the next step in your career*

*– earning your certificate of added qualification and C-EFM credential!*

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**IT IS IMPORTANT TO READ THE INFORMATION IN THIS GUIDE. IT WILL ANSWER YOUR QUESTIONS AND WILL EXPLAIN ALL POLICIES TO WHICH YOU WILL BE SUBJECT.**

***NCC core and subspecialty programs are accredited by the National Commission for Certifying Agencies***

### ABOUT THIS GUIDE

This guide provides general information about the NCC examination process. There are different rules and policies based on how you are taking the exam: computer testing with AMP, NCC annual paper and pencil testing, testing with PEC courses or contracted by your institution through the ICP program. Please make sure you review the pertinent information for the appropriate exam administration option. It includes specific information about the further communication you will have with NCC before you take the examination, the policies of the examination program, and the procedures to be followed on the day you take the examination. In addition, this guide provides information that will help you prepare for the examination including sample questions to familiarize you with question format, competency statements and examination content outline. A bibliography is also provided for your review. It is recommended that you familiarize yourself with the information in this guide. It should answer your questions about the NCC examination process. If you have other questions, please feel free to contact NCC at 312-951-0207 or visit the NCC website at [www.nccwebsite.org](http://www.nccwebsite.org).

### NCC'S PHILOSOPHY OF TESTING

The NCC subspecialty examination leading to a certificate of added qualification in Electronic Fetal Monitoring is a voluntary process designed to provide health care professionals the opportunity to demonstrate publicly, and to be recognized for, their knowledge in EFM. The subspecialty examination provides for evaluation of the individual's special knowledge at a specific point in time.

The certificate of added qualification carries no regulatory authority for licensure, nor does NCC establish practice or educational standards. The responsibility for development of practice standards rests with the professional specialty organizations and the educational community. NCC encourages each health care professional to seek out information about how the certificate of added qualification relates to licensure, accreditation or employment opportunities in his/her community.

### KEY POINTS

# COMPUTER TESTING WITH AMP

**Schedule your test as soon as possible** with AMP either by phone on their website – see eligibility letter for details.

Remember to bring **two forms of ID** with you; one must be with a picture and both must be current. You will not be allowed admittance without proper ID.

You must arrive at least 15 minutes prior to your scheduled appointment time. **AN APPLICANT WHO ARRIVES MORE THAN 15 MINUTES AFTER THE SCHEDULED TESTING TIME WILL NOT BE ADMITTED** and will forfeit all fees.

Preliminary results are given at the site but your **official (verified) results will come to you in the mail** within 21 days of testing. You are **NOT** credentialed until you receive your official letter.

**Verification of the EFM Credential to third parties** can only be done via our **online system on the NCC website**. Your information will not be on the system until you receive your official letter in the mail. Cost is \$30.

## SCHEDULING TO TAKE YOUR EXAM

It is your responsibility to schedule when you wish to take the examination. You have **90 days to schedule and to take** your examination. The specific starting and ending days are provided in your eligibility letter - you cannot setup an appointment until you receive your eligibility letter. It is recommended that you schedule your appointment as soon as possible. **Space availability at any specific test center cannot be guaranteed.** If you schedule later than the first month of your testing window and space is not available in your assigned window, you will have to file an extension and pay all applicable fees.

You can schedule your examination at one of Applied Measurement Professional (AMP) test centers via **telephone** or via the **web**. Refer to your eligibility letter for the specific telephone number and web site address. A candidate can reschedule a testing date **ONCE** at no charge. You must select a reschedule date when you call to cancel your original test date and that date must be within your assigned 90 day window for testing. Subsequent reschedules require payment of a \$100 fee. Any rescheduling must take place at least 4 business days prior to the most recently scheduled test date.

The examination is administered by appointment only. Walk in candidates cannot be accommodated. Examinations may be scheduled **Monday-Saturday only** and are available on a first come, first served basis. Therefore, you are encouraged to schedule your appointment as soon as possible. Examinations are scheduled at **9 am or 1:30 pm, Monday-Saturday**.

A list of AMP test sites is provided in this guide and at [www.GOAMP.com](http://www.GOAMP.com). AMP Assessment Centers are located in selected H & R Block offices. When you call or visit the web to schedule your appointment, the specific address will be provided, and directions to all AMP sites are available on the AMP web site. **Sites are subject to change.** AMP personnel will be able to advise you about the availability of test centers.

All AMP test centers are **closed** on the following days:

|                           |   |
|---------------------------|---|
| New Year's Day            | Columbus Day                                      |
| Martin Luther King Day    | Thanksgiving (& the following Friday)             |
| Presidents' Day           | Christmas Eve                                     |
| Good Friday               | Christmas Day                                     |
| Memorial Day              | The week between Christmas Day and New Year's Day |
| Independence Day (July 4) |   |
| Labor Day                 |   |

# COMPUTER TESTING WITH AMP

## INCLEMENT WEATHER, POWER FAILURE OR EMERGENCY

### How to Determine if a Test Center is Closed Due to Weather Conditions

In the event of inclement weather or unforeseen emergencies on the day of an examination, AMP will determine whether circumstances warrant the cancellation, and subsequent rescheduling, of an examination. The examination will usually not be rescheduled if the Assessment Center personnel are able to open the test center. If power to a testing center is temporarily interrupted during an administration, your examination will restart where you left off and you may continue the examination.

Candidates may contact AMP at the same number they called to schedule their appointment, or visit the AMP website at [www.goamp.com](http://www.goamp.com) to determine weather related test site closures. Such information is located on the AMP website homepage. Every attempt is made to administer the examination as scheduled; however, should an examination be canceled at a test center, all scheduled candidates will receive notification regarding a rescheduled examination date or reapplication procedures.

## THE DAY OF THE EXAM – ARRIVAL & ADMISSION

When you arrive at an AMP test center (located in H & R Block offices), look for the signs indicating AMP Assessment Center Check-in. You must check in with the test supervisor.

To gain admission to the Assessment Center, a candidate needs to present **two forms of identification**, one with a current photograph. Both forms of identification must be current and include the candidate's current name and signature. The candidate will also be required to sign a roster for verification of identity.

Acceptable forms of photo identification include: a current driver's license with photograph, a current state identification card with photograph, a current passport, or a current military identification card with photograph. Employment ID cards, student ID cards and any type of temporary identification are NOT acceptable. Candidates are prohibited from misrepresenting their identities or falsifying information to obtain admission to the Assessment Center. **YOU MUST HAVE PROPER IDENTIFICATION TO GAIN ADMISSION TO THE TEST CENTER.**

Bring the copy of your eligibility letter with you.

You should arrive at least 15 minutes prior to your scheduled appointment time. **AN APPLICANT WHO ARRIVES MORE THAN 15 MINUTES AFTER THE SCHEDULED TESTING TIME WILL NOT BE ADMITTED** and will forfeit all fees.

If you have any problem during your test session, you should alert the proctor. This could be related to computer function, environment or any other issue.

While every effort is made to provide a comfortable environment, individual temperature responses or facility management beyond the proctor's control can make the site too hot or too cold for your individual taste. Please bring a sweater or jacket that you can remove or put on as needed.

# COMPUTER TESTING WITH AMP

## PREPARING FOR THE EXAM

After your identification has been confirmed, you will be directed to a testing carrel. The computer will be turned on and will be ready to be used. You will be prompted on-screen to enter your NCC assigned ID number. Your photograph will be taken, and it will remain on-screen throughout your testing session. This photograph will also print on your preliminary pass/fail report.

### SECURITY

NCC and AMP adhere to test administration and test security standards that are designed to assure that all candidates are provided the same opportunity to demonstrate their abilities. The Assessment Center is continuously monitored by audio and video surveillance equipment for security purposes.

### PRACTICE TEST

Prior to attempting the examination, you will be given the opportunity to practice taking a test on the computer. The time you use for this practice test is NOT counted as part of your examination time. When you are comfortable with the computer testing process, you may quit the practice session and begin the timed examination. If you have any questions about how the computer testing works, please ask your proctor.

## TAKING THE EXAM BY COMPUTER – WHAT TO EXPECT

### TIMED EXAMINATION

Following the practice test, you will begin the actual examination. Before beginning, instructions for taking the examination are provided on-screen.

Two (2) hours are allotted to complete the examination.

The computer monitors the time you spend on the examination. The examination will terminate if you exceed the time limit. You may click on the “Time” button in the lower right portion of the screen or select the TIME key to monitor your time. A digital clock indicating the time remaining for you to complete the examination will appear. The time feature may also be turned off during the examination. Only one test item is presented at a time. The item number appears in the lower right portion of the screen. The entire test item appears on-screen (i.e., stem and three options labeled A, B, and C). **Indicate your choice by either entering the letter of the option you think is correct (A, B, or C) or clicking on the option using the mouse.** To change your answer, enter a different option by pressing the A, B, or C key or by clicking on the option using the mouse. You may change your answers as many times as you wish during the testing time limit.



To move to the next item, click on the forward arrow (>) in the lower right portion of the screen (*see diagram above*) or select the NEXT key. This action will move you forward through the examination item by item. If you wish to review any item or items, click the backward arrow (<) or use the left arrow key to move backward through the examination.

A test item may be left unanswered for return later in the testing session. Items may also be bookmarked (flagged) for later review by clicking in the blank square to the right of the Time button. Click on the forward pointing hand or select the NEXT key to advance to the next unanswered or bookmarked item on the examination. To identify all unanswered and bookmarked items, repeatedly click on the forward pointing hand or press the NEXT key. When the examination is completed, the number of test items answered is reported. If not all items have been answered and there is time remaining, return to the examination and answer those items. **Be sure to provide an answer for each test item before ending the examination. There is no penalty for guessing.**

Online comments may be provided for any item by clicking on the button displaying an exclamation point (!) to the left of the Time button. This opens a dialogue box where comments may be entered. **Comments will be reviewed, but individual responses will not be provided. NOTE: the time to make comments will be counted toward the test time, and no comments are acceptable as answers.**

# COMPUTER TESTING WITH AMP

## FORFEITURE OF FEES

All fees will be forfeited by the candidate for any of the following:

- Failure to follow any AMP rules
- Failure to appear at the test center (no-show) without requesting an extension or a deferral within the allotted time period
- Failure to call for an appointment within the 90 day window
- Arrival too late at the test center
- Refusal of entry because of failure to have proper ID or to meet any required rule
- Dismissal from the test center for being disruptive or otherwise disorderly to other test candidates, test center personnel or others at the test center

**VIOLATION OF ANY OF THE ABOVE PROVISIONS RESULTS IN DISMISSAL FROM THE TESTING SESSION. THE CANDIDATE'S RESULTS ON THE EXAMINATION ARE VOIDED AND EXAMINATION FEES ARE NOT REFUNDED.**

## RULES OF COMPUTER TESTING

### RESTRICTIONS AND SECURITY

Report to your designated Assessment Center location on the day of the examination at the time you were instructed when your appointment was scheduled. **Candidates arriving more than 15 minutes late will not be admitted.** No guests, visitors or family members are allowed in the testing room or reception areas.

No books, papers, dictionaries, other reference materials or personal items (e.g., purses, briefcases, coats) may be taken into the Assessment Center; you must leave all personal items at home or in your automobile. AMP will not be responsible for loss of or damage to personal items.

**No electronic devices** other than approved calculators are permitted in the Assessment Center, **including telephones, signaling devices such as pagers and alarms and photographic or duplicating devices.** In addition, personal digital assistants (PDAs) and other hand-held computers, including smart phones, tablets and digital music players (e.g., Ipad & Ipad) are prohibited.

NCC allows candidates to bring a battery-operated noiseless, non-programmable calculator without alpha keys or printing capabilities to the test site.

You will be provided with scratch paper and pencils to use during the examination which must be returned to the supervisor at the completion of testing, or you will not receive a pass/fail report. **No documents or notes of any kind may be removed from the examination room.** All computer screens, questions, paper and written materials are the property of NCC and AMP and may not be reproduced in any form.

**No** questions concerning the **content** of the examination may be asked during the test.

Eating, drinking or smoking will not be permitted in the Assessment Center.

You may take a break whenever you wish, but you will **not** be allowed additional time to make up for time lost during breaks.

# COMPUTER TESTING WITH AMP

## RULES OF COMPUTER TESTING

### PERSONAL BELONGINGS

No personal items, valuables, or weapons should be brought to the Assessment Center. Only wallets and keys are permitted. Coats must be left outside the testing room. You will be provided a soft locker to store your wallet and/or keys with you in the testing room. You will not have access to these items until after the examinations is completed. Please note the following items will not be allowed in the testing room except securely locked in the soft locker.

- watches
- hats

Once you have placed everything into the soft locker, you will be asked to pull out your pockets to ensure they are empty. If all personal items will not fit in the soft locker you will not be able to test. The site will not store any personal belongings.

If any personal items are observed in the testing room after the examination is started, you will be dismissed the administration will be forfeited.

### MISCONDUCT

The supervisor may **dismiss a candidate from the examination** for any of the following reasons:

- the candidate's admission to the examination is unauthorized
- the candidate creates a disturbance, is abusive, or otherwise uncooperative
- the candidate gives or receives help or is suspected of doing so
- the candidate attempts to record test questions or to make notes
- the candidate displays and/or uses electronic communications equipment such as pagers, cellular phones, PDAs
- the candidate talks or participates in conversations with other examination candidates
- the candidate leaves the Assessment Center during the administration
- the candidate attempts to take the examination for someone else
- the candidate is observed with personal belongings
- the candidate is observed with notes, books or other aids without it being noted on the roster

If a candidate engages in misconduct and is dismissed -- the exam score will not be reported and examination fees will not be refunded.

# COMPUTER TESTING WITH AMP

## RESULTS NOTIFICATION

After completing the exam or once the allotted time has expired, candidates are asked to complete a short evaluation of their testing experience. Then candidates are instructed to report to the testing supervisor to receive their pass/fail report.

The pass/fail report received at the test site will preliminarily indicate pass or fail status only and **will be unofficial until you receive official written notice** from NCC. This process allows NCC to verify the accuracy of all test results.

Your official notice will be sent within 21 business days of your test date **via US first class mail**. Pass/fail status will not be reported over the telephone, the NCC website, by electronic mail, express mail or by fax. **There are no exceptions to this policy.**

Your official notice will confirm your PASS or FAIL status. Additional reporting regarding areas of strength and weakness in the various examination content areas will be included.

**Third party notification of pass/fail status will not be released without authorization from the candidate.** A \$30 fee is required for any third party notification or issuance of duplicate pass/fail reports. Such verifications will not be issued until written confirmation of pass/fail is made by NCC and the candidate is so notified.

**Verification requests can only be made via the online verification system on the NCC website.**

NCC no longer issues verifications via mail or fax.

## WHAT HAPPENS IF YOU CAN'T TAKE THE EXAM?

### EXTENSION POLICY AND FEES

Any candidate can be granted one (1) extension for the next available 90 day window after the extension request is received and provided that all the following apply:

- request is submitted online at the NCC website with a non-refundable extension fee of \$100 before the final day of the assigned testing window;
- candidate's window of testing time has not expired;
- candidate has not made an appointment with AMP to take the examination or if an appointment has been made, it was cancelled no later than four business days prior to the scheduled testing

Candidates who are approved to extend their 90 day window will not be allowed subsequently to withdraw or request a deferral from the examination process.

### DEFERRAL POLICY AND FEES

Candidates who are unable to participate in the examination for which they are scheduled and who are beyond the time frame for rescheduling or cancellation of the appointment may request an additional 90 day window of time to take the examination. **This deferral is available on a one time only basis and must be approved by NCC.**

Deferral candidates must submit their request online and include an additional nonrefundable \$125 fee. Candidates who request a deferral are not eligible for any refund. **Deferral requests must be submitted online at the NCC website within 30 days from the last day of the original 90 day window.** Deferral candidates will be assigned to the next available 90 day window for testing following approval of the deferral request.

### WITHDRAWING CANDIDATES

Only the applicant/candidate can withdraw from the examination process. Withdrawing candidates will receive a refund of \$135. All withdrawal requests must be made in writing, signed and dated and sent to NCC provided that all the following apply:

- the candidate has not made an appointment to take the exam at an AMP center, or
- if the candidate has made an appointment with AMP, it must be cancelled no later than four days prior to the scheduled testing.

The request must be postmarked no later than one month prior to the end of the candidate's 90 day test window. For example, if the test window concludes on September 20, 2012, the last day for a withdrawal request to be accepted would be August 20, 2012.

### SUBSTITUTIONS

New candidate substitutions CANNOT BE MADE for ineligible, withdrawn or extension/deferral candidates

**NO REFUND WILL BE CONSIDERED AFTER THE CANDIDATE HAS TAKEN AN EXAMINATION.**

# COMPUTER TESTING WITH AMP

## COMPUTER TEST CENTERS

The AMP test centers are located in H & R Block Centers and are listed below. Sites are subject to change. Go to [www.GoAMP.com](http://www.GoAMP.com) for the most current list.

|  |  |   |   |  |
|--|--|---|---|--|
| <b>Alabama</b><br>Athens<br>Birmingham<br>(Lakeshore Pkwy)<br>Birmingham<br>(Crestwood Blvd)<br>Huntsville<br>Mobile<br>Montgomery   | Miami<br>Ocala<br>Orlando<br>(Casselberry)<br>Sarasota<br>Tallahassee<br>West Palm Beach   | <b>Massachusetts</b><br>Boston (Saugus)<br>Framingham<br>Holyoke                            | <b>New Jersey</b><br>Trenton<br>(Robbinsville)<br>Wayne   | <b>Tennessee</b><br>Chattanooga<br>Johnson City<br>Knoxville<br>Memphis<br>Nashville   |
| <b>Alaska</b><br>Anchorage   | <b>Georgia</b><br>Atlanta (Decatur)<br>Atlanta (Lilburn)<br>Atlanta (Roswell)<br>Macon<br>Savannah   | <b>Maryland</b><br>Baltimore (Glen Burnie)<br>Randalltown                                   | <b>New Mexico</b><br>Albuquerque  | <b>Texas</b><br>Austin<br>Dallas<br>El Paso<br>Fort Worth<br>Houston<br>(Beechnut)<br>Houston (Jones Rd.)<br>Lubbock<br>McAllen<br>San Antonio |
| <b>Arkansas</b><br>Fayetteville<br>Little Rock   | <b>Hawaii</b><br>Honolulu  | <b>Maine</b><br>Portland  | <b>Nevada</b><br>Las Vegas<br>(Henderson)<br>Reno   | <b>Utah</b><br>Salt Lake City  |
| <b>Arizona</b><br>Phoenix (Glendale)<br>Phoenix (Mesa)<br>Tucson   | <b>Idaho</b><br>Boise  | <b>Michigan</b><br>Detroit<br>Flint<br>Grand Rapids<br>(Wyoming)                            | <b>New York</b><br>Albany<br>Buffalo<br>Long Island<br>New York City<br>Queens (Astoria)<br>Rochester<br>Selden<br>Utica (Whitesboro)<br>White Plains | <b>Virginia</b><br>Fredericksburg<br>Norfolk<br>Richmond<br>Roanoke  |
| <b>California</b><br>Bakersfield<br>Chino Fresno<br>Irvine Long Beach<br>Los Angeles<br>(Glendale)<br>Los Angeles<br>(Stanton)<br>Modesto<br>Monrovia<br>Palm Springs<br>Sacramento<br>San Diego (La Mesa)<br>San Francisco<br>San Jose<br>Santa Maria<br>Upland | <b>Illinois</b><br>Buffalo Grove<br>Carbondale<br>Chicago (LaSalle St)<br>Chicago<br>(Washington St)<br>Franklin Park<br>Glen Ellyn<br>Libertyville<br>Matteson<br>Naperville<br>Rockford<br>Springfield<br>Urbana | <b>Minnesota</b><br>Duluth<br>Minneapolis<br>(Blaine)<br>Rochester                          | <b>Ohio</b><br>Cincinnati<br>Cleveland (Brook Park)<br>Columbus<br>Toledo   | <b>Vermont</b><br>Burlington   |
| <b>Colorado</b><br>Denver (Aurora)<br>Grand Junction   | <b>Indiana</b><br>Evansville<br>Fort Wayne<br>Indianapolis<br>Mishawaka  | <b>Missouri</b><br>Jefferson City<br>Kansas City<br>(Gladstone)<br>Springfield<br>St. Louis | <b>Oklahoma</b><br>Oklahoma City<br>Tulsa   | <b>Washington</b><br>East Wenatchee<br>Everett<br>Seattle (Bellevue)<br>Seattle<br>Spokane<br>Tacoma<br>Vancouver<br>Yakima                    |
| <b>Connecticut</b><br>Southington<br>(Hartford)<br>West Haven  | <b>Iowa</b><br>Davenport<br>Des Moines   | <b>Mississippi</b><br>Jackson (Ridgeland)   | <b>Oregon</b><br>Eugene<br>Klamath Falls<br>Medford<br>Portland<br>Salem  | <b>Wisconsin</b><br>Green Bay<br>Milwaukee   |
| <b>DC</b><br>Washington  | <b>Kansas</b><br>Kansas City<br>Wichita  | <b>Montana</b><br>Billings<br>Great Falls<br>Missoula                                       | <b>Pennsylvania</b><br>Harrisburg<br>Philadelphia<br>Pittsburgh<br>Wyoming  | <b>West Virginia</b><br>Charleston   |
| <b>Delaware</b><br>Wilmington  | <b>Kentucky</b><br>Lexington<br>Louisville   | <b>North Carolina</b><br>Charlotte<br>Raleigh   | <b>Rhode Island</b><br>Providence<br>(Warwick)  | <b>Wyoming</b><br>Caspar<br>Cheyenne<br>Green River  |
| <b>Florida</b><br>Fort Lauderdale<br>Jacksonville<br>Lakeland  | <b>Louisiana</b><br>Baton Rouge<br>New Orleans<br>(Metairie)<br>Shreveport   | <b>North Dakota</b><br>Bismarck<br>Fargo  | <b>South Carolina</b><br>Columbia<br>Georgetown<br>Spartanburg  |  |
|  |  | <b>Nebraska</b><br>Lincoln<br>North Platte<br>Omaha (Bellevue)<br>Scottsbluff               | <b>South Dakota</b><br>Rapid City<br>Sioux Falls  |  |
|  |  | <b>New Hampshire</b><br>Concord<br>Manchester<br>Nashua<br>Portsmouth                       |   |  |

# ANNUAL PAPER & PENCIL TEST

SEPTEMBER 21, 2012

## PREPARING FOR EXAM DAY

### ADMISSION TICKET

You will receive your admission ticket approximately two weeks prior to examination day. Your ticket will list your name, address, your NCC assigned ID number, the examination you are taking and the schedule for exam day. You should review the ticket as soon as you receive it to verify that the information on it is correct.

### CANDIDATE INFORMATION SHEET

With your admission ticket, you will also receive a Candidate Information Sheet which will give you specific information about reporting to your test site.

If your name or address changes from the time you receive your notice of eligibility and the day of the examination, please notify the NCC office as soon as possible. We will reissue your admission ticket with the correct information if time permits and update your NCC file.

## THE DAY OF THE ANNUAL PAPER & PENCIL EXAM

### ADMISSION TO THE TEST SITE

- Only the candidate who has applied for and been found eligible to take the examination will be admitted to the test site.
- Candidates will be required to show their admission ticket and a photo ID.
- Examination procedures will begin at 9:00 a.m. local time on the testing date. Candidates must report to the test site by 8:30 a.m. for check-in.
- Two hours are allotted for the examination. Please be advised that a candidate may take only one examination per test administration date. The exam is specified in the eligibility letter and on the admission ticket.
- All NCC subspecialty examinations are administered from 9:00 a.m. to 12:00 noon.
- NCC allows candidates to bring a battery-operated noiseless, non-programmable calculator to the test site.
- On the day of the examination, an NCC representative will be available to assist you with any problem from **7 a.m. to 4:00 p.m.** Central Time. Call (312) 951-0207.

### LOST ADMISSION TICKETS

If you misplace your ticket, report to the test site at the scheduled exam time. **Make sure you bring a photo ID with your name and signature.** You will be asked to submit an affidavit of identification that will be submitted to NCC.

### PROCTOR RESPONSIBILITIES

The proctor at your test site has three primary functions:

- maintaining security of the examination,
- providing an orderly processing of candidate credentials for admittance to the examination, and
- facilitating an optimal testing environment for candidates.

Proctors are there to help you. If during the examination, there is an environmental problem, please let the proctor know. S/he cannot help you if the problem is not identified. Proctors cannot assist you with interpretation of examination content.

While every effort is made to provide a comfortable environment, individual temperature responses or facility management beyond the proctor's control can make the site too hot or too cold for your individual taste. Please bring a sweater or jacket that you can remove or put on as needed.

# ANNUAL PAPER & PENCIL TEST

SEPTEMBER 21, 2012

## RESULTS NOTIFICATION

### SCORE REPORT

Your test results will be mailed within 4-6 weeks following test administration.

Test results will be sent by U.S. first class mail only. No test results will be given over the telephone, faxed, express mailed, or e-mailed. **There are no exceptions to this policy.**

Your test results will give your PASS or FAIL status. Additional reporting regarding areas of strength and weakness in the various examination content areas will be included.

Third party notification of status will not be released without authorization from the certificate holder. A \$30 fee is required for any third party notification or issuance of duplicates of test results reports. **Verification requests can only be submitted after official written results have been received in the mail.** Verification requests can only be made via the online verification system on the NCC website. NCC no longer issues verifications via the mail or fax.

### ANSWER SHEET REVIEW

All answer sheets are scored electronically.

If you believe there might be a discrepancy in your results, you may request a review of your answer sheet for a fee of \$30. This request must be submitted online at the NCC website no later than November 9, 2012. Requests received after that time will not be honored.

The online request form is under "other helpful information" in the Certification Exam section. You will be notified of the results by mail.

## WHAT HAPPENS IF YOU CAN'T TAKE THE EXAM?

### WITHDRAWING FROM THE EXAMINATION PROCESS

- Only the applicant/candidate may request to withdraw from the examination process. All such requests must be made in writing by a postmark date of **August 17, 2012**
- Withdrawal candidates will receive a \$110 refund.
- Withdrawal fees will be issued AFTER the test administration date.
- No refund requests will be considered after a postmark date of **August 17, 2012** for any reason. Please mail your request for withdrawal to NCC, 142 E. Ontario St., Suite 1700, Chicago, IL 60611.

### CARRYOVER FEES

Candidates who fail to appear to take the annual paper/pencil test on the scheduled test date or request a change to computer testing prior to the scheduled paper/pencil test date can carryover to take the computer test with an additional payment of \$125..

- The carryover request must be received no later than a postmark date of **November 9, 2012** for those who failed to appear to take test as scheduled.
- A \$125 non-refundable fee must be submitted with the request.
- The applicant will be given the next available 90-day window after determination of eligibility to take the exam.
- **This is a one-time only option.**
- Candidates who carryover to a subsequent test administration are not eligible for any refund.
- Substituting new candidates for those who carryover or withdraw will not be allowed.

**IF YOU CAN'T GET TO THE TEST SITE ON THE DAY OF THE EXAM DUE TO UNFORESEEN CIRCUMSTANCES, YOU MAY BE ABLE TO CARRY OVER YOUR FEES. YOU MUST REQUEST A CARRYOVER IN WRITING BY NOVEMBER 9, 2012. THERE IS A FEE TO DO THIS, AS NOTED ABOVE AND YOU MUST RE-ESTABLISH ELIGIBILITY BY SENDING A NEW, COMPLETE APPLICATION AND DOCUMENTATION BY MAIL.**

# PROFESSIONAL EDUCATION CENTER (PEC) TESTING

## PEC INTRODUCTION

PEC testing is administered through special arrangements with NCC. All aspects of NCC quality and integrity of exam administration are maintained but certain special rules do apply (see the following) in addition to the usual NCC rules. For specific questions regarding these exams, contact Betty Sobala at [Bsobala@nccnet.org](mailto:Bsobala@nccnet.org)

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**NOTE:**  
**THIS IS NOT THE**  
**ANNUAL PAPER & PENCIL**  
**TEST OF**  
**SEPTEMBER 21, 2012**

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**IF YOU LOSE YOUR ELIGIBILITY LETTER, BRING YOUR PHOTO ID TO THE TEST SITE AT YOUR SCHEDULE EXAM TIME.**

*All applications for PEC testing must be obtained at the PEC website.*

## SPECIAL RULES FOR PEC

### REFUNDS:

No refund will be issued for any reason. A candidate who signs up for the NCC exam and does not successfully complete the PEC course, fails to take the exam after signing up for the exam, fails to appear at the site, or fails to take the exam for any other reason will not be entitled to a refund.

### WITHDRAWAL:

Once the candidate is determined eligible for the exam, withdrawal from the process will not be allowed. No application may be transferred to another person or to another test date.

### CARRYOVER:

A candidate who fails to appear to take the examination may be eligible to participate in the carryover process. The candidate must apply within 30 days of the original examination date by completing a new NCC application, meeting the then current eligibility criteria, and submitting to NCC along with the carryover fee of \$125.

### UNSUCCESSFUL CANDIDATES:

A candidate who sits for the examination and does not receive a passing score is not eligible for any refund nor for any credit on any later NCC exam.

### REGISTRATION:

All applicants must complete an application and send it along with the stated payment on the application to NCC. The application must be received by the stated deadline date. All applicants must be approved by NCC to sit for the exam. PEC has no authority to accept or to allow any applicant to take the NCC exam. Incomplete applications or those postmarked after the deadline for the NCC exam will be returned.

### INCOMPLETE APPLICATIONS:

Incomplete applications are those missing any requested information or documentation, contain wrong or have no fees, do not contain original signatures or for any other reason resulting in an inability to determine applicant eligibility status. Such applications, if re-filed, are subject to a \$25 re-processing fee, but all documents and fees must be reconciled in full no later than 21 days prior to the exam. INELIGIBLE APPLICANTS are subject to a \$50 non-refundable fee.

### PAYMENT:

All applications must include full payment. A \$25 fee will be assessed for an incomplete application, a returned check or a charge back of a credit card.

### TEST RESULTS:

NCC shall provide final test results reports to individual candidates within 6 weeks of receipt of the answer sheets. All communications regarding the exam must be to NCC at the email provided to you by PEC on the exam application.

# INSTITUTIONAL CERTIFICATION PLAN (ICP) TESTING

## ICP INTRODUCTION

ICP testing is administered through special arrangements with NCC. All aspects of NCC quality and integrity of exam administration are maintained but certain special rules do apply (see the following) in addition to the usual NCC rules. For specific questions regarding these exams contact your local test coordinator.

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**NOTE:**  
**THIS IS NOT THE**  
**ANNUAL PAPER & PENCIL**  
**TEST OF**  
**SEPTEMBER 21, 2012**

---

**IF YOU LOSE YOUR ELIGIBILITY LETTER, BRING YOUR PHOTO ID TO THE TEST SITE AT YOUR SCHEDULE EXAM TIME.**

## SPECIAL RULES FOR ICP

### REFUNDS:

No refund will be issued for any reason. A candidate who does not successfully complete the program and has submitted his/her application and fees will not be entitled to a refund.

### WITHDRAWAL:

Once the candidate is determined eligible, withdrawal from the process will not be allowed.

### CARRYOVER:

A candidate who fails to appear to take the examination may be eligible to participate in the carryover process. The candidate must apply within 30 days of the original examination date by completing a new NCC application, meeting the then current eligibility criteria, and submitting to NCC along with the carryover fee of \$125.

### UNSUCCESSFUL CANDIDATES:

A candidate who sits for the examination and does not receive a passing score is not eligible for any refund.

### REGISTRATION:

All applications must be given to the Coordinator by the stated deadline to be considered – see your Coordinator for the deadline date. Applications received after that time will be returned.

### PAYMENT:

All applications must include full payment. A \$25 fee will be assessed for an incomplete application, a returned check or a charge back of a credit card.

### TEST RESULTS:

NCC shall provide final test results reports to individual candidates within 6 weeks of receipt of the answer sheets. All communications regarding the exam must be to the Coordinator of the exam. Do not contact NCC for any reason concerning the exam.

# TERMS OF CERTIFICATE OF ADDED QUALIFICATION AND MAINTENANCE

## WHEN YOU PASS THE EXAM

### CREDENTIAL

You will receive a certificate of added qualification in Electronic Fetal Monitoring and your NCC credentialed status entitles you to use the credential C-EFM.

### TERMS OF CERTIFICATE OF ADDED QUALIFICATION

NCC certificate of added qualification is awarded for a period of three years.

For those taking the exam via computer, the effective date for the credential is the date on the official test results report you receive from NCC.

For those taking the exam in paper & pencil format, the effective date for the credential is the date on the official NCC letter that tells you that you have successfully completed the credentialing process.

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**NO CONTINUING  
EDUCATION IS ISSUED FOR  
TAKING THE  
ELECTRONIC FETAL  
MONITORING  
SUBSPECIALTY EXAM.**

---

## MAINTAINING YOUR CERTIFICATE OF ADDED QUALIFICATION

- NCC certificate of added qualification must be maintained on an ongoing basis every three years.
- A certificate of added qualification that is not maintained will expire and can be regained only through re-examination.
- The NCC certificate of added qualification maintenance program provides two options for continuing your credentialed status:
  - obtaining 15 hours of continuing education
  - or
  - successfully retaking the examination.
- Continuing education credit to be used for certificate of added qualification maintenance must be earned between the date of your notification of certificate of added qualification and the date your maintenance is due.
- If using re-examination for maintenance, you must take and successfully pass the examination prior to your expiration date.
- The maintenance process includes filing a maintenance application prior to your maintenance due date with appropriate fees and requested documentation. All CE must be in electronic fetal monitoring. Participation in NCC self assessment program for earning CE does NOT automatically maintain your credential. You must file a maintenance application and pay a maintenance fee in addition to any CE fees.

You may apply for maintenance up to 1 year prior of your maintenance date. As long as you have obtained the required contact hours of continuing education credit—***you do not need to wait until your maintenance deadline to apply***. Maintenance will be due no later than the last day of the quarter in which you were notified of your credential (not the date on which you took the examination). Please refer to the following for guidance:

### Date of Notification of Certificate of Added Qualification

*January-March 2012*  
*April-June 2012*  
*July-September 2012*  
*October-December 2012*

### Certificate of Added Qualification Maintenance Due Dates

*March 31, 2015*  
*June 30, 2015*  
*September 30, 2015*  
*December 31, 2015*

**The NCC website [www.nccwebsite.org](http://www.nccwebsite.org) has your answers.**

For more information about the certificate of added qualification maintenance program, click the purple "Maintain your Certification" box.

# FEES & GENERAL POLICIES

## FEES

### RETURNED CHECK FEE

A **\$25 fee** will be assessed to any applicant whose check is returned to NCC for insufficient funds, stop payment or any other reason. Remittance of fees thereafter must be in the form of a money order or certified cashier's check.

### CREDIT CARD CHARGEBACK

If an applicant's credit card company issues a notice of retrieval or a chargeback in response to the cardholder's dispute of the credit card charge, the applicant will be required to submit to NCC a certified check or money order to cover the original cost plus an **administrative fee of \$25**.

### THIRD PARTY PAYMENTS

Applicant fees paid by third parties will be reimbursed to the third party in the event the applicant is determined ineligible or withdraws within the specified time. Reimbursement will be in accordance with stated refund policies.

Certificate of added qualification will be revoked or withheld if a returned check or a chargeback request on a credit card payment results in loss of income to NCC and the monies are not recovered in an alternate payment. Fees received at any time will first be applied to any unpaid prior certificate of added qualification /special fees.

## GENERAL POLICIES

### UNSUCCESSFUL CANDIDATES

Candidates who do not pass the examination are not eligible for any refund.

### EXAM CATEGORY CHANGES

Requests to change examination category must be received in writing no later than a postmark date of **July 30, 2012** for those taking the exam by paper and pencil. A \$30 fee is assessed for any exam category changes and must be remitted with the request. Checks should be made payable to NCC. (Additional information may be required.) Candidates taking the test by computer must request the change prior to making an appointment to take the test. Eligibility must be re-established for the new examination category, and additional documentation and fees may be required. The time to consider eligibility for the new category will count toward the original 90 day window assigned to take the examination. Examinees must take the examination for which they have been determined eligible. No changes will be permitted on examination day. If a candidate knowingly or unknowingly takes an examination other than the one she/he was found eligible to take, the examination will not be scored. No refunds will be allowed, and all fee policies will apply if the candidate reapplies for an examination.

### RETENTION OF ANSWER SHEETS AND EXAMINATION BOOKLETS

All answer sheets are kept for one year from the date of the examination. Examination booklets used by the candidates are kept for six months from the date of the examination. Computer answer strings are kept for at least one year from the date of the examination.

### RETEST POLICY

You may retake the examination if you do not pass. You must reapply, submit all applicable fees and documentation, and re-establish eligibility according to the appropriate deadlines. There is no limit to the number of times you may retake the examination, however candidates must wait at least **90 days before making application to retake the examination** by computer or paper and pencil. All submission deadlines for application for paper and pencil testing must be met. No accommodation will be given to those who are retesting via paper and pencil mode if they cannot meet application deadline because of the 90 day wait rule. The **maximum number of times a candidate can take the same NCC test in a calendar year is two**.

### AMERICANS WITH DISABILITIES ACT

Special testing accommodations will be provided pursuant to the Americans with Disabilities Act. Contact the NCC office for further information before submitting your application.

# FEES & GENERAL POLICIES

## GENERAL POLICIES (CONTINUED)

### REVIEW COURSES AND MATERIALS

NCC does not offer or sponsor review courses or review materials for its certificate of added qualification examinations. Examination candidates should review any purported course of study as being independent of NCC. You should carefully examine the merits of any individual exam preparation offering before you participate.

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**POLICIES ARE SUBJECT  
TO CHANGE  
WITHOUT NOTICE.**

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### TEST DISCLOSURE

NCC does not make test questions available for review. Because test questions may be used for more than one examination administration, distributing this information would compromise the security of the test questions and would increase the cost of certificate of added qualification if the questions had to be replaced each year.

### APPEALS PROCEDURE

Any request to waive any policy of the NCC Board of Directors relative to eligibility, administration, examination content issues, or certificate of added qualification maintenance must be received in writing within 60 days of the dispute. The correspondence should contain a detailed account as to why the NCC policy should be waived or the candidate's status should be changed. Such requests are referred to the NCC Policy Review Committee of the Board of Directors. All decisions will be provided in writing. Cases not resolved by the Policy Review Committee will be referred to the full Board of Directors.

### NONDISCRIMINATION

It is the policy of NCC that no individual shall be excluded from the opportunity to participate in the NCC examination program on the basis of race, national origin, religion, sex, age, or disability.

### REVOCAION

Your certificate of added qualification may be revoked for falsifying any information submitted relative to eligibility to take the certificate of added qualification examination or for maintaining certificate of added qualification, if you lose your license to practice nursing, or if you fail to pay designated certificate of added qualification or maintenance fees.

### ANSWER SHEET REVIEW OF PAPER AND PENCIL EXAMINATIONS

All answer sheets are scored electronically. If you believe there might be a discrepancy in your results, you may request a review of your answer sheet for a fee of \$30. This request must be submitted online at the NCC website within 60 days of the exam date. The online request form is under "other helpful information" in the Certification Exam section. You will be notified of the results by mail.

### VERIFICATION OF CREDENTIAL

Third party notification of status will not be released without authorization from the RNC. A \$30 fee is required for any third party notification or issuance of duplicates of test results reports. Verification requests can only be submitted after official written results have been received in the mail. Verification requests can only be made via the online verification system on the NCC website. NCC no longer issues verifications via the mail or fax.

# ABOUT THE EXAM

## CONTENT TEAMS

Content team members are experienced practitioners and are appointed on an annual basis by the NCC President. Content teams are solicited from the EFM certificate holder population, NCC item writer workshop participants and from experts in the field. To see the current membership composition of the Content Team responsible for the EFM examination, please visit the NCC website under the section on NCC Leadership.

## EXAMINATION CONTENT DEVELOPMENT

The development of NCC credentialing involves many individuals and involves a meticulous process of review. There are three major groups that contribute to the test development process:

### ITEM WRITERS:

EFM certificate holders and others identified with special expertise have the responsibility of drafting test items per designated assignment for review by the content team and expert reviewers. Item writers are solicited from the RNC population and through recommendations.

### REVIEWERS:

Reviewers are EFM certificate holders or other designated experts who assist the content teams in review of test items developed by the item writers. Reviewers are responsible for reviewing items for content relevance and confirming that references cited for the questions support the items as written.

### CONTENT TEAM MEMBERS:

Content team members are EFM certificate holders or other identified experts who:

- develop and update the test outline and competency statements
- review test items developed by item writers
- set the pass/fail standard
- review item statistics from exam administrations and pretest examinations
- approve the exam forms to be administered
- review item banks
- undertake content validation studies

### TIMED EXAMINATION

Two (2) hours are allotted to complete the subspecialty examination.

### EXAM FORMAT

The Electronic Fetal Monitoring subspecialty examination can consist of up to 125 test questions. 100 are counted for scoring and the remainder are embedded in the exam as pretest items. The pretest items do not count toward the examinee's final results.

- There is one question format used for all NCC examinations.
- Each question has a premise (stem) and three alternative answers.
- The answer options are alphabetized by the first word in each answer option to randomize the answers.
- Computer tests are delivered in a different random order for each candidate.
- Questions will test both basic knowledge and application of knowledge.
- Questions that contain laboratory data will show results in conventional units of measure with international units in parentheses.
- Drugs are listed in both generic and trade names where appropriate.

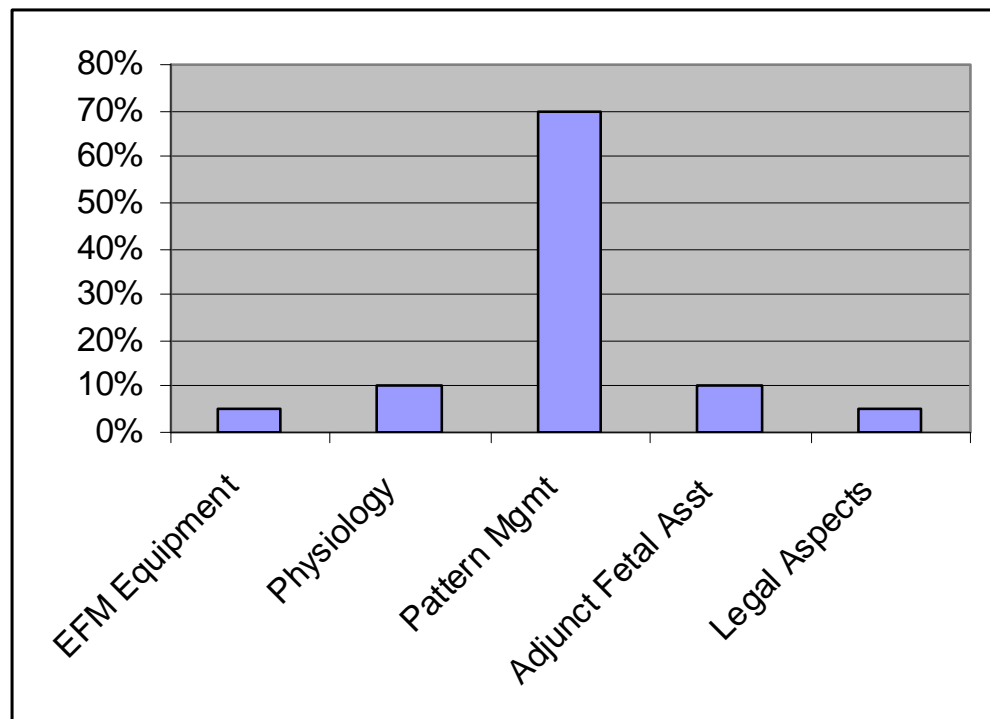
# EXAMINATION CONTENT

## COMPETENCY STATEMENTS, TEST CONTENT OUTLINE & STUDY RESOURCES

### ELECTRONIC FETAL MONITORING

The chart shows the percentage distribution of questions on the Electronic Fetal Monitoring exam across the major content categories covered on the examination.

The major focus is on Pattern Recognition, Interpretation and Management. EFM Equipment and Legal Aspects have the least emphasis.



#### ASSOCIATED COMPETENCIES

- Apply knowledge of maternal-fetal assessment methods when selecting electronic fetal monitoring or intermittent auscultation to evaluate fetal well-being.
- Interpret data from the electronic fetal monitor to differentiate between actual fetal data and equipment failure.
- Use knowledge of the advantages and disadvantages of electronic fetal monitoring to provide information to the pregnant woman and her support person(s).
- Apply knowledge of fetal heart rate regulation to the interpretation of electronic fetal monitoring data.
- Identify and interpret the significance of fetal heart rate patterns.
- Interpret data from electronic fetal monitoring to differentiate between reassuring and nonreassuring fetal heart rate patterns.
- Apply knowledge of common pregnancy complications to the development of a comprehensive plan of care based on electronic fetal monitoring data.
- Apply knowledge of uteroplacental and maternal-fetal physiology as they relate to fetal oxygenation.
- Identify indications for adjunct fetal assessment and incorporate findings into the plan of care.
- Incorporate knowledge of current practice and legal practices into nursing care.

# EXAMINATION CONTENT

## COMPETENCY STATEMENTS, TEST CONTENT OUTLINE & STUDY RESOURCES

### EXAM OUTLINE

This is an outline of topics and areas which may be included in the Electronic Fetal Monitoring examination.

Percentages identified for the topic areas represent a range of the number of test questions assigned to each content area and therefore might total more or less than 100 percent. These ranges do not necessarily reflect the content of future exams.

- 10.00 The Electronic Monitoring Equipment (<5%)

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- 10.01 Fetal heart rate monitoring
  - a. Internal
  - b. External
- 10.02 Uterine monitoring
  - a. External
  - b. IUPC
- 10.03 Equipment failure and troubleshooting
- 10.04 Artifact Detection
- 10.05 Patient Education
- 11.00 Physiology (5-10%)

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- 11.01 Uteroplacental
  - a. Uteroplacental circulation
  - b. Fetal circulation
  - c. Fetal heart regulation
- 11.02 Uterine activity
  - a. Resting tone
  - b. Contractions
    - 1. Frequency
    - 2. Duration
    - 3. Intensity
- 11.03 Factors affecting fetal oxygenation
  - a. Uterine activity
  - b. Maternal factors
  - c. Anesthesia
  - d. Drugs (Therapeutic & Recreational)
  - e. Placental factors
  - f. Umbilical blood flow
- 12.00 Pattern Recognition, Interpretation and Intervention (60-70%)

---
- 12.01 Baseline heart rate
  - a. Bradycardia
  - b. Tachycardia
  - c. Variability
  - d. Sinusoidal
- 12.02 Fetal heart rate patterns
  - a. Accelerations
  - b. Decelerations
    - 1. Early
    - 2. Variable
    - 3. Late
    - 4. Prolonged
- 12.03 Response to tachysystole
- 12.04 Dysrhythmias and other variant patterns
  - a. Supraventricular tachycardia
  - b. Congenital heart block
  - c. Ectopic beats
- 12.05 Common Complications
  - a. Preterm Labor
  - b. Hypertension
    - 1. Gestational hypertension
    - 2. Preeclampsia-eclampsia
    - 3. HELLP syndrome
    - 4. Chronic (essential)
  - c. Postdates Pregnancy
  - d. Diabetes (Gestational, Type 1, Type 2)
  - e. Placental disorders (previa, abruption)
  - f. Uterine rupture/scar dehiscence
  - g. Infections
  - h. Multiple gestations
- 13.00 Adjunct Fetal Assessment (5-10%)

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- 13.01 Auscultation
- 13.02 Fetal movement counting
- 13.03 Nonstress testing
- 13.04 Contraction stress testing
- 13.05 Fetal acid base interpretation
- 13.06 Biophysical profile
- 13.07 Fetal Acoustic Stimulation
- 14.00 Legal Aspects of electronic Fetal Monitoring (<5%)

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- 14.01 Documentation & charting
- 14.02 Limitations of use
- 14.03 Chain of command

# EXAMINATION CONTENT

## COMPETENCY STATEMENTS, TEST CONTENT OUTLINE & STUDY RESOURCES

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**THE NICHD LANGUAGE AND DEFINITIONS ARE UTILIZED IN THE EXAM AS NOTED IN THE 2008 UPDATE. ALL EFM TRACINGS USED IN THE EXAM ARE SET AT A SPEED OF 3CM/MIN FOR PURPOSES OF INTERPRETATION**

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### STUDY RESOURCES

The following references are used by content team members and outside item writers to generate test questions for the EFM examination. This list is not intended as an all-inclusive list of references, nor does it imply that items on the current examinations were necessarily referenced from any of these publications.

- Creasy, et al., Maternal Fetal Medicine, Saunders, Philadelphia, 2009.
- Cunningham, et al., Williams' Obstetrics, McGraw Hill, New York, 2010.
- Macones, et al., The 2008 National Institute of Child Health and Human Development Workshop Report on Electronic Fetal Monitoring; Update on Definitions, Interpretation and Research, Obstetrics and Gynecology, Vol. 112, No. 3, September 2008, pages 661-666.
- NCC Monograph: NICHD Definitions and Classifications: Application to Electronic Fetal Monitoring Interpretation, Simpson, Kathleen, NCC, 2010
- Menihan, et al., Electronic Fetal Monitoring Concepts and Applications, LWW, 2008.
- Simpson, et al., Perinatal Nursing, LWW, 2008.
- Tucker, et al., Fetal Monitoring: A Multidisciplinary Approach, Mosby Elsevier, 2009.
- Lyndon, et al Fetal Heart Monitoring Principles and Practices., Kendall Hunt, 2009.
- Cabaniss, et al. Fetal Monitoring Interpretation, LWW, 2009
- ACOG Practice Bulletin, No. 116 Management of Intrapartum Fetal Tracing, ACOG, 2010

# SAMPLE QUESTIONS

## ELECTRONIC FETAL MONITORING SAMPLE QUESTIONS

Listed below are five sample questions to acquaint you with the test question format. These questions do not reflect the scope or the difficulty level of the questions on the actual examination. The reference from which each question is derived is also cited. However, other references might substantiate a different answer, and the answer shown here might be substantiated by other references. The rigorous review to which actual test questions are subject is not applied to these sample questions. The focus that should be attended to in reviewing these items is format, not content.

1. Following an ultrasound which revealed decreased amniotic fluid, a woman at term is admitted in early labor. It should be recognized that oligohydramnios often results in fetal heart rate decelerations that are
  - A. late in onset or occur after the peak of the contraction
  - B. synchronous with that of the contraction
  - C. varied in depth and duration

Answer: C

Lyndon, et al. , Fetal Heart Monitoring Principles and Practices, Kendall Hunt, 2009, p. 146

2. The following umbilical cord blood gas is obtained:

|                  |                   |
|------------------|-------------------|
| pH               | 7.18              |
| PCO <sub>2</sub> | 0 mm Hg           |
| PO <sub>2</sub>  | 20 mm Hg          |
| HCO <sub>3</sub> | -2 mEq/L (mmol/L) |

These findings are most consistent with fetal

- A. metabolic acidosis
- B. normal acid base status
- C. respiratory acidosis

Answer: A

Cunningham, et al, Williams Obstetrics, McGraw Hill, 2010, p. 596

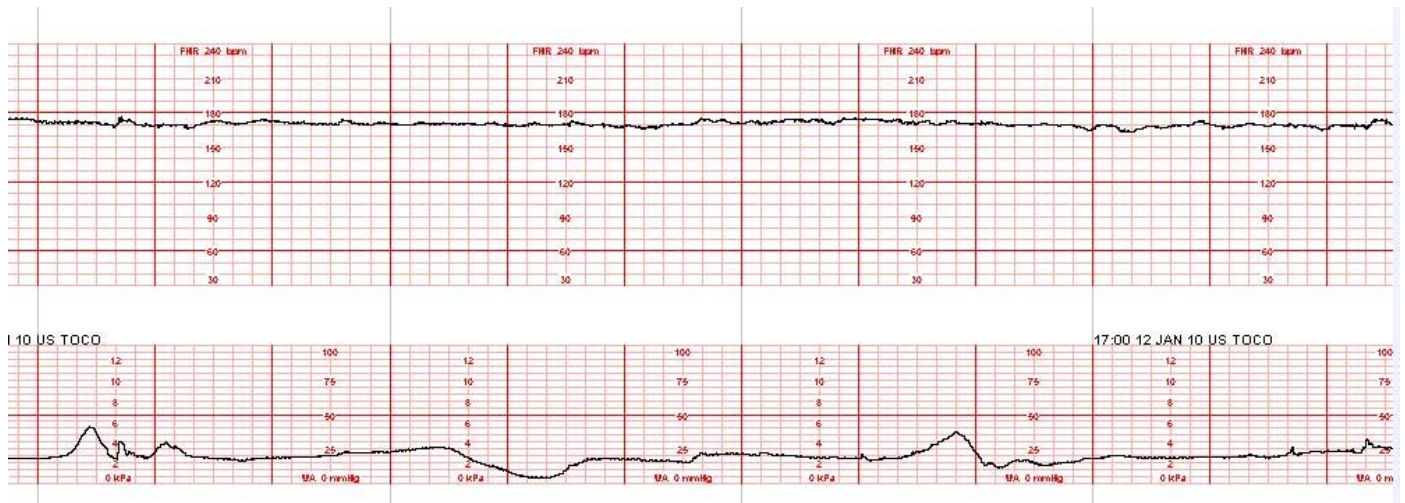
3. In comparing early and late decelerations, a distinguishing factor between the two is
  - A. onset time to the nadir of the deceleration
  - B. the number of decelerations that occur
  - C. timing in relation to contractions

Answer: C

NCC Monograph: NICJD Definitions and Classifications: Application to Electronic Fetal Monitoring Interpretation, Simpson, Kathleen, NCC, 2010 , p. 3

# EXAMINATION CONTENT

## COMPETENCY STATEMENTS, TEST CONTENT OUTLINE & STUDY RESOURCES



4. Based on interpretation the above tracing, this tracing would be classified as

- A. Category II
- B. Category III
- C. Indeterminate

Answer: A

NCC Monograph: NICJD Definitions and Classifications: Application to Electronic Fetal Monitoring Interpretation, Simpson, Kathleen, NCC, 2010, p. 5

5. The underlying cause of early decelerations is decreased

- A. baroreceptor response
- B. increased peripheral resistance
- C. vagal reflex

Answer: C

Cabaniss, et al., Fetal Monitoring Interpretation, LWW, 2009, p. 20

# SCORING & SCORE REPORT

## HOW EXAMS ARE SCORED

NCC examinations are criterion-referenced. This means the passing score is based on a predetermined criterion. This criterion is a statistical ability level established by the Content Team based on evaluation of criticality of content and the test questions' past statistical performance. Questions used to determine pass/fail have proven statistical history that demonstrates the question is appropriate for use to measure an individual's ability level.

There is no set percentage passing level, but pass/fail status is based on achieving a predetermined ability level. Each test item has a difficulty level. The higher the difficulty of an item, the greater the ability score one achieves. Pass/fail is determined based on the number of questions answered correctly, and the pass/fail standard is a predetermined ability criterion. As questions are answered correctly, the examinees build on their ability score and subtract from it when questions are answered incorrectly. When different forms of the examination are used, a process called equating is initiated. This procedure converts all results to a common scale. So someone who takes a slightly more difficult form of the exam will need to answer fewer questions correctly than someone who takes a slightly easier form of the exam.

NCC utilizes the item response theory of psychometrics for the analysis of its examinations. Item response theory (Rasch analysis) is the study of test and item scores based on assumptions concerning the mathematical relationship between abilities and item responses. This is a commonly used system, and such examinations as the NCLEX and other health related certification examinations utilize this type of psychometric analysis.

Test results reports will identify a pass/fail status and will give feedback on the various content areas of the examination in the form of word descriptors: very weak, weak, average, strong and very strong. No percentage or standard score will be given.

# SCORING & SCORE REPORT

## SAMPLE SCORE REPORT

Whether you take the computer or paper and pencil version of the examination, you will receive an official test results report from NCC. Shown below is a sample test result report for a candidate who has passed the examination.

### ELECTRONIC FETAL MONITORING EXAMINATION

#### Test Results

NAME

DATE

ADDRESS

Pass/Fail: PASS

#### Exam Content Report

The following provides information regarding your performance on the different content areas tested on the examination.

This report is provided for informational purposes only to assist in identifying your areas of strength and weakness. There is no requirement that a certain number of questions in each content category must be answered correctly to pass the examination. Passing the examination is based on the total number of questions answered correctly on the entire examination.

#### Content Area & Percentage

#### Your Results:

#### Range of Questions Asked:

Physiology  
(5-10%)

WEAK

Fetal Heart Rate  
Interpretation & Intervention  
(65-75%)

AVERAGE

EFM Equipment, Adjunct Fetal Assessment  
& Legal Aspects of EFM  
(9-19%)

AVERAGE

# CHANGE REQUEST FORM

## REQUESTS FOR CHANGES

Mail this form to NCC and make sure that you include your check (made payable to NCC), for any fees due.

Mail to: **NCC**

**142 E. Ontario St., Suite 1700**

**Chicago, IL 60611**

### NAME, ADDRESS OR TEST SITE CHANGES

I am requesting a change in my name or address (complete information below)

### EXAM CATEGORY CHANGE (\$30 charge & additional information may be requested)

- I want to change my examination category. (Must be requested by July 30, 2012 for paper/pencil testing candidates) or prior to the time an appointment is made with AMP for a computer test

**CARRYOVERS** require submission of a new application with applicable fees. Please refer to Guide for information.

|   |                         |            |
|---|-------------------------|------------|
| <b>NCC ID Number</b>                    | <b>Exam to Be Taken</b> |            |
| <b>Last Name</b>                        | <b>First Name</b>       |            |
| <b>Address</b>                          |                         |            |
| <b>City</b>                             | <b>State</b>            | <b>Zip</b> |
| <b>Phone Number (include area code)</b> |                         |            |
| <b>Email Address</b>                    |                         |            |

If applicable- complete the following

|                              |                           |
|------------------------------|---------------------------|
| <b>Former Name</b>           | <b>New Name</b>           |
| <b>Former Address</b>        | <b>New Address</b>        |
| <b>Former City/State/Zip</b> | <b>New City/State/Zip</b> |
| <b>Former Telephone</b>      | <b>New Telephone</b>      |
| <b>Former Email</b>          | <b>New Email</b>          |
| <b>Former Exam</b>           | <b>New Exam</b>           |

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