

NCE Handbook

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Note: Where used in this Handbook, the phrases “irregular behavior” or “improper behavior” refer to (1) provision of false or incomplete information to the NBCRNA in relation to the credentialing process; (2) violation of any of the rules or regulations governing any NBCRNA examination or assessment; or (3) engaging in any activity that is grounds for disciplinary action as described in the NBCRNA Policies and Procedures for Discipline, Administrative Action and Appeals.

This publication contains information about NBCRNA's National Certification Examination (NCE) required for primary certification by the NBCRNA. Candidates are responsible for knowing the contents of this handbook as well as any additional applicable NBCRNA policies (e.g., please see NBCRNA's General Policies Handbook).

All correspondence and requests for information should be sent to the NBCRNA at support@nbcrna.com. The NBCRNA does not discriminate on the basis of age, sex, race, religion, national origin, ethnicity, disability, marital status, sexual orientation, and gender identity.

NBCRNA primary certification and continued certification programs are accredited by the following organizations:



NBCRNA OVERVIEW

The National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA) is a not-for-profit corporation organized under the laws of the state of Illinois. NBCRNA credentialing provides assurances to the public that certified individuals have met objective, predetermined qualifications for providing nurse anesthesia services. A nurse anesthetist who is certified by the NBCRNA is expected to respect basic human rights and the dignity of all patients; protect the patient from harm; advocate for the patient's welfare and collaborate with other members of the health professions; be responsible and accountable for their actions; maintain confidentiality of patient information, except when disclosure is required by law; and maintain the knowledge and skill necessary for competent nurse anesthesia practice.

While state licensure provides the legal credential for the practice of professional nursing, private voluntary certification indicates compliance with the professional standards for practice in this clinical nursing specialty. The certification credential for nurse anesthetists has been institutionalized in many position descriptions as a practice requirement or as the standard for demonstrating equivalency. It has been recognized in state nurse practice acts and state rules and regulations.

The primary purpose of the NBCRNA is to seek to ensure that nurse anesthetists have the necessary knowledge and skills to practice safely and effectively. In so doing, it also protects the value of the CRNA credential. The NBCRNA has designed objective criteria intended to determine whether an individual holding the NBCRNA-issued CRNA credential is properly licensed, has attested to engagement in the practice of nurse anesthesia; has participated in continuing education and other activities sufficient to indicate an effort to keep current with advances, and is free of any mental, physical, or other problems that may interfere with the practice of nurse anesthesia. Whenever program eligibility criteria are developed and/or revised, the NBCRNA engages multiple stakeholders to ensure appropriate consideration has been given as to the impact of NBCRNA decisions.

NCCA defines competence as “the ability to perform a task, function, or role at a level that meets or exceeds prescribed standards in the work environment” (NCCA, 2016) and continuing competence as demonstrating “specified levels of knowledge, skills, or ability throughout an individual's professional career” (NCCA, 2016). These concepts serve as the foundation underpinning the NBCRNA certification and continued certification programs.

Vision

The vision of the NBCRNA is to be recognized as the leader in advanced practice nurse credentialing.

Mission

The mission of the NBCRNA is to promote patient safety through credentialing programs that support lifelong learning.

History

The primary certification program for nurse anesthetists was introduced by the American Association of Nurse Anesthetists (AANA) in 1945. It was initially administered by the Credentials Committee of the AANA. In 1975, the AANA approved the establishment of councils for the accreditation and certification processes, and the Council on Certification of Nurse Anesthetists (CCNA) assumed the responsibility for the National Certification Examination (NCE). By this action, the profession recognized that credentialing mechanisms, which include examination and certification, function to protect and benefit the public.

Realizing that evidence of continued professional excellence was becoming increasingly important in our society, the AANA Board of Directors in 1968 directed the AANA Education Committee to study the issue of recertification. At the AANA Annual Meeting in 1969, a bylaw was adopted to establish an optional program to provide certificates to members who had demonstrated they had completed clinical and didactic experiences reflective of the changes in nurse anesthesia practice within a five-year period. Recognizing that continuing education provides one means to assess current educational and knowledge levels of practitioners, a mandatory continuing education program was adopted by the AANA membership at the 1976 Annual Meeting, with full implementation effective August 1, 1978.

In September 1978, the AANA membership adopted the bylaw revisions providing for an organizational restructuring of the Association and establishing a Council on Recertification of Nurse Anesthetists (COR). Bylaw provisions granting the COR autonomy were adopted in 1983. In 2007, the CCNA and the COR became independent of the AANA, and together they incorporated as the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA).

With its continued mission to promote patient safety, the NBCRNA implemented the Nonsurgical Pain Management subspecialty certification in 2015 and the Continued Professional Certification (CPC) Program in 2016. In 2023 the NBCRNA Board of Directors modified the continuing certification program to incorporate longitudinal assessment, making the NBCRNA the first nursing certification program to do so. In 2024, the NBCRNA launched the Maintaining Anesthesia Certification (MAC) Program, which incorporated longitudinal assessment.

Purpose

The purpose of the NBCRNA includes, but is not limited to, seeking to ensure that nurse anesthetists have the necessary knowledge and skills to practice safely and effectively. In so doing, it also protects the value of the CRNA credential. The NBCRNA is responsible for:

- Formulating, adopting and confirming compliance of initial and subspecialty certification eligibility requirements for nurse anesthetists.
- Formulating, adopting and confirming compliance of Maintaining Anesthesia Certification (MAC) eligibility requirements for nurse anesthetists.
- Formulating, adopting and confirming compliance of the requirements for eligibility for admission to NBCRNA- administered examinations or assessments including, but not limited to, the SEE, NCE, NSPM exam, and MAC Check.
- Formulating, adopting and administering NBCRNA-created examinations or assessments to candidates who have met all requirements for examination or assessment and have been found eligible.

No national organization can expect to determine the specific procedures that any individual nurse anesthetist is qualified to perform. Neither can any national organization determine whether an individual nurse anesthetist may have developed an impairment that could interfere with the proper administration of anesthesia. Ultimately, these judgments must be entrusted to the individual nurse anesthetist and to those with whom they work.

Structure

The NBCRNA is managed by a Board of Directors who are recognized as leaders in nurse anesthesia and related fields. The members of the Board are certified registered nurse anesthetists, as well as a board-certified surgeon and anesthesiologist, both of whom have a current working relationship with nurse anesthetists, and a representative of the public at large. Members of the Board are elected to serve staggered three-year terms. Two of the CRNA Board Directors are elected by currently certified CRNAs through an open election following a call for applications.

NCCA Accreditation

The primary certification and continued certification programs of the NBCRNA are accredited through April 30, 2027 by the National Commission for Certifying Agencies (NCCA), a private not-for-profit organization. The NCCA is the accrediting branch of the Institute for Credentialing Excellence (ICE), which is the national standard setting organization for credentialing groups, including certification boards, licensing boards, and associations. The NBCRNA (and before it, the CCNA and COR) has been continuously accredited by the NCCA since 1980.

NCCA accreditation means that the NBCRNA credentialing programs meet the highest national voluntary standards for private certification. It means that the programs have been reviewed by an impartial commission and deemed to have met the nationally accepted criteria and guidelines of the NCCA.

ABSNC Accreditation

The primary certification and continued certification programs of the NBCRNA are accredited through July 1, 2027 by the Accreditation Board for Specialty Nursing Certification (ABSNC) of the American Board of Nursing Specialties (ABNS). The NBCRNA (and before it, the CCNA and COR) was one of the first national credentialing organizations to be recognized and accredited by the ABSNC.

The ABNS, established in 1991, is the national peer review program for specialty nursing credentialing organizations. ABNS serves as the national umbrella organization for nursing specialty certification boards authorized and recognized to certify nurse specialists in the United States. It promotes the highest quality of specialty nursing practice through the establishment of standards of professional specialty nursing certification.

GENERAL INFORMATION

Eligibility Requirements for the NCE

In order for an individual to be eligible to apply to take the NCE and to receive a certification eligibility notification, a candidate must:

1. Comply with all state requirements for current and unrestricted licensure as a registered professional nurse in all states in which they currently hold an active license.
2. Complete a nurse anesthesia educational program accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA) (“accredited program”) within the previous two calendar years.
3. Submit:
 - a. A complete and accurate examination application form electronically signed by the candidate, including the NBCRNA waiver of liability and agreement of authorization, confidentiality and nondisclosure statements.
 - b. An electronically prepared record of academic and clinical experience for the candidate from an accredited program. The academic and clinical experience requirements appear in APPENDIX A of this document. The record is permanently retained by the NBCRNA, and must:
 - (1) Be submitted directly by the nurse anesthesia educational program administrator within 30 days of completion of the program.
 - (2) Be electronically signed by both the program administrator and the candidate.
 - (3) Accurately show that all the minimum requirements have been met, and that the candidate completed the accredited program including all the COA-specified competencies. If the candidate attended more than one nurse anesthesia educational program, only one record should be submitted, clearly showing the academic and clinical information from both programs.
 - c. Information regarding the candidate’s current and unrestricted license to practice as a registered professional nurse (RN license number, issuing state and expiration date) in all states in which they currently hold an active license. At least one license must be current on the candidate’s requested examination date.

NOTE: If the nursing license expires between the date the candidate officially completes the nurse anesthesia educational program and the date the NCE is taken, the candidate will be found eligible, provided all of the other requirements for eligibility have been met. However, official NCE results will NOT be released until the NBCRNA has received information that a nursing license was current on the date of the NCE, or a written statement from the state nursing board attesting to the candidate’s valid licensure on that date.
 - d. Color digital photo of the candidate taken within the previous six months and approved by the candidate and the program administrator.

4. Make the following eligibility certifications:

- a. That all current registered nurse and/or advanced nurse practice license(s) are in good standing, are not suspended or limited by any state, have never been surrendered or relinquished (whether voluntarily or involuntarily) and are not the subject of a pending action or investigation.
- b. That they have not been adjudicated by a court or regulatory authority to be mentally or physically incompetent.
- c. That they do not currently suffer from substance use disorder (SUD) [drug or alcohol addiction or abuse], that is impacting their practice.
- d. That they have not been convicted of, or pleaded no contest to, a crime.
- e. That, except for incidents occurring during the nurse anesthesia educational program that were thereafter satisfactorily resolved, they have not been the subject of any documented allegations of misconduct, incompetent practice or unethical conduct.
- f. That they have never been the subject of disciplinary action, placed on probation, suspended, or dismissed from a nurse anesthesia educational program for unethical conduct, questions of academic integrity or documented evidence of cheating.
- g. That the application and all corresponding content being submitted is accurate.

If the candidate does not so certify, they must provide full documentation of the reasons therefore with sufficient specificity to allow the NBCRNA to evaluate the possible impact of the problem on the candidate's current ability to take the NCE or practice nurse anesthesia, and to resolve the issue to the NBCRNA's satisfaction.

5. Sign the waiver of liability and agreement of authorization, confidentiality and nondisclosure statements clarifying that the individual has read, understands and intends to be legally bound by those statements. These statements include, but are not limited to:

- a. Understanding that any cards and/or certificates issued by NBCRNA shall remain the property of the NBCRNA, and any cards and/or certificates, when issued, are only valid while the holder maintains NBCRNA certification. Understands that if certification is not maintained, a card and/or a certificate is/are no longer valid and is/are subject to forfeiture and redelivery.
- b. Agreeing to disqualification from examination, to denial, suspension or revocation of certification, and to forfeiture and redelivery of any certificate granted by the NBCRNA in the event that any of the statements or answers made in this application are false or incomplete or in the event that any of the rules or regulations governing such examination are violated.
- c. Understanding that they can be disqualified from taking or continuing to sit for an examination, or from receiving examination scores, if the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA) determines, through proctor observation, statistical analysis or any other means, that they were engaged in collaborative disruptive, or other irregular behavior before, during the administration of, or following the examination.
- d. Understanding that the content of the NCE, and each individual NCE item, is the property of the NBCRNA, is copyrighted and is strictly confidential information.

- e. Understanding that any retention, possession, copying, distribution, disclosure, discussion, or receipt of any examination question, in whole or in part, by written, electronic, oral or other form of communication, including but not limited to emailing, texting, electronically posting, copying, or printing of electronic files, and reconstruction through memorization and/or dictation, before, during, or after an examination, is **strictly prohibited**. In addition to constituting irregular behavior subject to disciplinary action such as denial, suspension or revocation of eligibility or denial, suspension or revocation of certification, such activities violate the NBCRNA's proprietary rights, including copyrights, and may subject the responsible individuals to legal action resulting in monetary damages.
- f. Acknowledging that they have not been the recipient of any NCE questions, nor have they been involved in any disclosure, distribution or discussion of any NCE questions, and after taking the NCE they will not disclose, distribute, or discuss any NCE question. Further, they will inform the NBCRNA if they are aware of anyone who discloses any NCE question(s) or asks them to disclose any NCE question(s).

Significance of Eligibility Status

A candidate who holds "Exam Authorized" status with the NBCRNA has successfully completed an accredited nurse anesthesia educational program and has been granted eligibility status to take the NCE by the NBCRNA. The candidate with exam authorized status has not passed the NCE required to be a certified registered nurse anesthetist, is not certified by the NBCRNA, and may not use the designation "CRNA" after their name.

Candidates should be aware of state laws governing nurse anesthesia practice prior to certification. It is recommended that the NCE be taken as soon after graduation as possible.

Ineligibility to Take the NCE

Candidates will be found ineligible to take the NCE for any one or more of the following reasons:

- The record of academic and clinical experience does not show that the minimum academic and clinical requirements have been met and that the candidate has completed an accredited program.
- If the record of academic and clinical experience is not submitted in the manner prescribed by the NBCRNA, or is not completed accurately.
- If, in the determination by the NBCRNA, the candidate has violated exam policy or engaged in dishonest, deceptive, or unethical conduct in connection with the NCE.
- Failure to make the required eligibility certifications and to provide sufficient documentation to resolve the issue to the satisfaction of the NBCRNA.
- Failure to meet any of the other eligibility requirements, including failure to sign or accept the waiver of liability and agreement of authorization, confidentiality and nondisclosure statements.
- Failure to pass the NCE within two years following the official program completion date submitted from the accredited nurse anesthesia educational program.

CONDITIONAL ELIGIBILITY

Grant of Conditional Eligibility

Candidates who hold a restricted license to practice as a registered professional nurse or who are required to participate in a recovery program or other non-disciplinary monitoring program may, at the discretion of the NBCRNA, be granted conditional eligibility to take the NCE, provided that all other certification eligibility requirements have been fulfilled.

Examples of conditions include requirements for supervision and requirements that a candidate remain in a substance use disorder or recovery program for a specified period of time.

Conditional Eligibility Period

Conditional eligibility shall remain in effect for the eligibility period described below, as long as the candidate complies with all terms of the conditions on their license. It shall be revoked for failure to comply.

Expiration of Eligibility Status

Eligibility to sit for the NCE lasts for a period of 90 days, or until the candidate takes the NCE, whichever occurs first. Eligibility will expire 90 days from the date of issue of the certification eligibility notification or on the date that the candidate takes the NCE.

Denial, Suspension or Revocation of Eligibility Status

The NBCRNA will automatically deny, suspend or revoke a candidate's eligibility to take the NCE in the following circumstances:

- Failure by the candidate to maintain current and unrestricted licensure as a registered professional nurse in at least one state.
- Loss or surrender of licensure or other authority to practice nurse anesthesia in any state for any reason that, in the judgment of the NBCRNA, relates to the anesthetist's safe or ethical practice of nurse anesthesia.
- Withdrawal by a school official of their affirmation signature from the candidate's official record of academic and clinical experience.
- Failure by the candidate to complete an accredited nurse anesthesia educational program.
- Adjudication by a court or regulatory authority that the candidate is mentally or physically incompetent.
- Suspension or termination from participation in a federal health care program for reasons relating to the, unsafe, unlawful or unethical practice of nurse anesthesia.
- Conviction of, or pleading no contest to, a crime which, in the judgment of the NBCRNA, relates to the candidate's safe or ethical practice of nurse anesthesia.
- Failure by the candidate to successfully pass the NCE within two years after program completion.

The NBCRNA may, at its discretion, deny, suspend or revoke a candidate's eligibility to take the NCE for any of the following reasons:

- Circumstances change so as to render one of the eligibility certifications made by the candidate invalid.
- Falsification of the NCE application, intentional misstatement of material fact or deliberate failure to provide relevant information on the examination application or to the NBCRNA at any time or assisting another person to do any of the above.
- Provision of false or incomplete information to the NBCRNA in connection with the credentialing process.
- Failure by the candidate to maintain current and unrestricted licensure as a registered professional nurse in every state of practice.
- Loss or surrender of licensure or authority to practice nurse anesthesia in any state for any reason other than retirement or cessation of practice unrelated to any disciplinary action or concern about possible disciplinary action.
- Cheating or assisting another person to cheat on the NCE, or otherwise engaging in dishonest or other improper behavior at any time in connection with the NCE.
- Dishonest or deceptive behavior or unethical conduct related to any NBCRNA examination, database, or intellectual property, cheating on an examination administered by the NBCRNA, inappropriate use of examination questions, or assisting another individual to engage in any such conduct.
- Data forensic statistics are utilized to determine testing anomalies, the NBCRNA will take action and if warranted invalidate an exam score if anomalies are identified.
- Unauthorized use of any NBCRNA credential or other health professional designation or false claim of certification or other professional designation.
- Violation of any NBCRNA policy or failure to cooperate with an NBCRNA investigation or audit.
- Conviction of, or pleading no contest to, a crime.
- Documented evidence of retention, possession, copying, distribution, disclosure, discussion, or receipt of any NCE question, in whole or in part, by written, electronic, oral or other form of communication, including but not limited to emailing, texting, electronically posting, copying or printing of electronic files, and reconstruction through memorization and/or dictation, before, during or after the NCE.
- Any other conduct that, in the judgment of the NBCRNA, calls into question the ability of the candidate to serve patients in an honest, competent, and professional manner.

Requirements for Certification

The NBCRNA has established the following requirements for certification. The candidate must:

- Fulfill all eligibility requirements for admission to the NCE.
- Pass the NCE.

Denial, Suspension or Revocation of Certification

The NBCRNA will automatically deny, suspend or revoke a candidate's certification for any of the following reasons:

- Failure by the candidate to maintain current and unrestricted licensure as a registered professional nurse in at least one state.
- Loss or surrender of licensure or authority to practice nurse anesthesia in any state for any reason that, in the judgment of the NBCRNA, relates to the anesthetist's safe or ethical practice of nurse anesthesia.
- Failure by the candidate to pass the NCE.
- Adjudication by a court or regulatory authority that the candidate is mentally or physically incompetent.
- Suspension or termination from participation in a federal health care program for reasons relating to the unsafe, unlawful or unethical practice of nurse anesthesia.
- Conviction of, or pleading no contest to, a crime, which, in the judgment of the NBCRNA, relates to the candidate's safe and ethical practice of nurse anesthesia.

The NBCRNA may, at its discretion, deny, suspend or revoke a candidate's certification for any of the following reasons:

- Circumstances change so as to render one of the eligibility certifications made by the candidate invalid.
- Falsification of the NCE application, intentional misstatement of material fact or deliberate failure to provide relevant information on the examination application or to the NBCRNA at any time or assisting another person to do any of the above.
- Provision of false or incomplete information to the NBCRNA in connection with the credentialing process.
- Failure by the candidate to maintain current and unrestricted licensure as a registered professional nurse in every state of practice.
- Loss or surrender of licensure or authority to practice nurse anesthesia in any state for any reason other than retirement or cessation of practice unrelated to any disciplinary action or concern about possible disciplinary action.
- Cheating or assisting another person to cheat on the NCE, or otherwise engaging in dishonest or other improper behavior at any time in connection with the NCE.
- Dishonest or deceptive behavior related to any NBCRNA examination, database, or intellectual property, cheating on an examination administered by the NBCRNA, inappropriate use of examination questions, or assisting another individual to engage in any such conduct.
- Data forensic statistics are utilized to determine testing anomalies: the NBCRNA will take action and if warranted invalidate an exam score if anomalies are identified.
- Unauthorized use of any NBCRNA credential or other health professional designation or false claim of certification or other professional designation.
- Violation of any NBCRNA policy or failure to cooperate with an NBCRNA investigation or audit.
- Conviction or pleading no contest to, a crime.

- Documented evidence of retention, possession, copying, distribution, disclosure, discussion or receipt of any examination question, in whole or in part, by written, electronic, oral or other form of communication, including but not limited to emailing, texting, electronically posting, copying or printing of electronic files, and reconstruction through memorization and/or dictation, before, during or after the NCE.
- Engaging in unethical conduct.
- Any other conduct that, in the judgment of the NBCRNA, calls into question the ability of the candidate to serve patients in an honest, competent, and professional manner.

Conditional Certification

Grant of Conditional Certification

Nurse anesthetists who have a restricted license to practice as a registered professional nurse and, where applicable, as a nurse anesthetist, or who are required to participate in a recovery program or other non-disciplinary monitoring program, may be granted conditional certification, provided that all other certification requirements have been fulfilled. The conditional certification will reflect any conditions imposed by the appropriate state licensure authority.

Examples of conditions include requirements for supervision and requirements that the anesthetist remain in a substance use disorder or recovery program for a stated period of time. The conditional certification card and certificate shall state that certification is conditioned on the anesthetist's compliance with the terms of their license conditions.

Conditional Certification Period

Conditional certification shall remain in effect as long as the anesthetist complies with all terms of the conditions on their license. It shall be revoked for failure to comply. The anesthetist shall be responsible for providing the NBCRNA with adequate documentation that they have complied with all licensure conditions for the requisite period of time. A request to change conditional certification to full certification must be accompanied by written documentation sufficient to demonstrate to the NBCRNA that all conditions have been removed.

Recognition of Certification by the NBCRNA

Each nurse anesthetist who passes the NCE and fulfills the requirements for certification by the NBCRNA may use "CRNA" after their name. The term stands for Certified Registered Nurse Anesthetist. CRNA is not punctuated with periods.

A newly certified registered nurse anesthetist receives an initial certification card and a wall certificate with their official notification of certification by the NBCRNA. The certification card and wall certificate are the property of the NBCRNA and must be returned to the NBCRNA if the bearer is found to be noncompliant with the NBCRNA-specified certification eligibility criteria. Unauthorized use of any NBCRNA credential or false claim of certification may result in denial, suspension or revocation of certification.

A list of all registered nurse anesthetists who are newly certified by the NBCRNA is posted monthly on the NBCRNA website.

MAC Compliance

Graduates of nurse anesthesia educational programs accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs who achieve a passing score on the NCE are granted initial certification by the NBCRNA. A newly certified registered nurse anesthetist is eligible to apply for MAC compliance within the required time frame after initial certification. Requirements for MAC compliance are available in the MAC Handbook.

EXAMINATION INFORMATION

Purpose of the NCE

The NBCRNA administers the NCE to measure the knowledge, skills and abilities necessary for entry-level nurse anesthesia practitioners.

Description of the Examination

The NCE is a variable-length computerized adaptive test. The examination is for entry into nurse anesthesia practice. Each candidate will take a minimum of 100 test questions — 70 questions representing the NCE content outline and 30 random, non-graded pretest questions. The maximum number of questions is 170 questions, which includes the 30 random, non-graded pretest questions. A maximum of three hours is allowed for the test period.

In addition to multiple-choice question formats (consisting of a stem and four response options), the NCE includes alternative question formats, which consist of the following:

- **Multiple Correct Response (MCR):** This question format is similar to a multiple-choice (MC) question. However, MCR questions consist of a stem and four to eight response options, and a correct response consists of more than just one option. The examinee must select all of the correct response options in order to be awarded credit. The question stem will indicate how many response options are correct.
- **Calculation:** Examinees are asked to respond by typing in a numerical response, typically a whole number (no decimals) or a number consisting of 1 or 2 decimal places. It is very important that the response to calculation questions be entered in the form of a number (e.g., 2 or 2.11), and NOT the word form of a number (e.g., “two” or “two point one-one”).

Example: What is 2+2?

Correct: 4

Incorrect: Four

A calculator application will be available for calculation items that may be computationally complex.

When an answer must be rounded to adhere to the instructions regarding decimal places, examinees should only apply rounding to the final answer, not to any intermediate steps in calculation. If the number being rounded ends in 5, 6, 7, 8, or 9, examinees should round up. If it ends in 0, 1, 2, 3, or 4, examinees should round down.

- **Drag and Drop:** These questions involve clicking and dragging objects to corresponding targets, and may take the form of matching or placing objects in order.
- **Hotspot:** Examinees indicate their answer by using their mouse to click on a region of a presented image or figure. When a region is selected, an “X” appears on the selected region. Examinees can change their answer (before moving to the next question) simply by clicking on another region in the image.
- **Images:** Any of the question formats described above may be augmented with images as stimuli for the question.

The questions are presented one at a time on a screen. Each question may be viewed as long as the candidate wishes, but the candidate cannot go back to previous questions once an answer choice has been recorded; nor can the candidate leave a question unanswered.

An important principle of test construction is that only questions that demonstrate acceptable performance are used to compute examinee scores. Questions that have never been used before have unknown performance characteristics, and it would be unfair to use such questions in computing examinee scores.

Therefore, it is necessary to pretest these questions and evaluate their performance. There are 30 such questions on the NCE. They appear throughout the examination and are not necessarily the first 30 or last 30 questions. Those questions that survive the complex evaluation process are retained for use on future examinations. The pretest questions are not used to score the examination.

The NBCRNA Board of Directors appoints a representative group of certified registered nurse anesthetists to serve on the Certification Examination Subcommittee. This subcommittee meets annually to write and review test questions for the approved item bank and to update the item bank each year. Performance statistics for questions are continually monitored by the NBCRNA.

Computerized Adaptive Testing

The NCE is administered using a methodology called computerized adaptive testing (CAT). CAT is a method of administering tests that uses current technology and is based on the psychometric framework of Item Response Theory (IRT). With CAT, each candidate's test is individualized; it is assembled interactively as the candidate is taking the test. Test questions are stored in a large item bank and classified by content category and level of difficulty. After a candidate answers a question, the computer calculates an estimate of ability and chooses the next question of appropriate content and difficulty. This process is repeated for each question, thus creating an examination that both fulfills the test plan requirements and is tailored to each individual's knowledge and skills.

Each test conforms to the content outline, which assures inclusion of test questions in all of the major content areas. All questions are chosen from the same item bank. The passing point is identical for all candidates, assuring that the difficulty level to pass the NCE is consistent for all candidates. All candidates have the opportunity to demonstrate their ability level, as the NCE will not end until a pass or fail decision is determined.

Administration

The NBCRNA contracts with Pearson to administer the NCE at test centers located in major cities throughout the United States.

Examination Content

The NBCRNA maintains responsibility for the examination content outline and test specifications, maintains an item bank of approved test questions and sets the passing score. In addition, the NBCRNA determines individual eligibility for admission to the NCE.

Content validity for the NCE has been documented through a professional practice analysis (PPA) initially performed by the CCNA in 1987 and subsequently every 4 to 5 years. The PPA ensures that the NCE reflects the knowledge of an entry-level nurse anesthesia practitioner. Content validation is provided by linkages between the PPA, knowledge and skill statements, and the test items. The job analysis is essential to the continued accreditation of the certification program and validation that the NCE is fair, job-related, and legally defensible.

The content outline was developed from responses to the 2022 PPA and a review by the NBCRNA, and it is provided to assist candidates in preparing for the NCE. The test content outline is only a guide that suggests topics and topical areas used to generate and categorize examination questions. It is not all-inclusive, as some elements apply to more than one area. This means that not only must candidates validate their knowledge of a subject, but they also must be able to integrate this knowledge across the spectrum of anesthesia practice.

Candidates should be aware that anesthetics and anesthesia adjuncts are constantly evolving. It may be appropriate for the content to include older agents as a mechanism to compare and contrast with new agents. Drug dosing is, of course, an essential part of pharmacologic knowledge and application.

The NBCRNA reserves the right to determine examination content, to classify examination questions and to determine the percentage of test questions from each topical area. The approximate percentages of questions in each major content area are provided in the Examination Content Outline.

EXAMINATION CONTENT OUTLINE

2025/2026 Content Outline

References for Review

The principal anesthesia textbooks used in nurse anesthesia educational programs should provide information related to all the major content areas on the NCE. An NCE/SEE Bibliography is available on the NBCRNA website. Research articles and review books are not used as references. The NBCRNA does not sponsor or endorse any review courses, review manuals or particular texts that can be used in preparation for the NCE. The NBCRNA does not make old tests or retired questions available to anyone.

REGISTRATION INFORMATION

Examination Dates

The NCE is offered year-round and may be taken after the candidate has been deemed eligible by the NBCRNA and has scheduled an appointment with Pearson to take the test. Candidates may schedule an appointment to take the NCE on any date that space is available at any Pearson test center of their choice. Attention should be paid to the fact that not all test centers are open seven days a week or operate on the same schedule. Immediate scheduling is not guaranteed by either NBCRNA or Pearson.

Fees

The NCE application fee must be paid electronically through the NBCRNA website. All fees must accompany the online application form. Institutional checks, personal checks or money orders will not be processed. The NBCRNA does not directly invoice individuals or institutions for payment of any examination fees.

Application Process

For a candidate to be considered for eligibility to take the NCE, all of the following materials must be submitted to the NBCRNA by the candidate's nurse anesthesia educational program administrator:

- A completed, electronically signed application.
- All candidates must sign the waiver of liability and agreement of authorization, confidentiality, and nondisclosure statements on the application form.
- Information regarding the candidate's current and unrestricted license to practice as a registered professional nurse (RN license number, issuing state and expiration date) in all states in which they currently hold an active license. At least one license must be current on the candidate's examination date.
- A record of academic and clinical experiences.
- A color digital photo taken within the previous six months.
- Written requests for reasonable accommodations, if applicable.

Application Procedure – Program Administrators

The program administrator must submit all the necessary materials upon official completion of the nurse anesthesia educational program. The official completion date is the date that the student has completely finished the nurse anesthesia educational program and all degree requirements (i.e., there are no makeup days, hours, classes, comprehensive exams or thesis for which the student is responsible).

The decision as to when to submit completed application materials is at the discretion of the program administrator. Regardless of when application materials are submitted, they must document that the candidate has met the Council on Accreditation of Nurse Anesthesia Educational Programs (COA) minimum academic and clinical requirements, as well as the COA- specified competencies.

Application Procedure – Candidates

An online application must be reviewed and completed by the candidate, including payment of all fees, prior to being submitted by the nurse anesthesia educational program administrator. An application that is incomplete, incorrectly filled out, without the correct fee or without a current and unrestricted professional nursing license will not be processed. No application materials may be submitted directly by the candidate.

Notification of Candidate Eligibility

Notification of eligibility or ineligibility is sent to a candidate after verification of completion of an accredited nurse anesthesia educational program has been received and their application has been approved. This process should be completed within five business days after graduation verification from the nurse anesthesia educational program.

Eligible candidates will receive an official NBCRNA certification eligibility notification via email. The information in the notification is used to schedule an appointment to take the examination with Pearson, either via its website or its Candidate Call Center. All scheduling must be done by the candidate directly with Pearson; the NBCRNA is not responsible for resolving scheduling conflicts. The certification eligibility notification expires 90 days from the date of issue, or on the date on which the candidate takes the NCE, whichever comes first.

Requests for State Board of Nursing Notification of Eligibility

The NBCRNA does not automatically notify state boards of nursing of a candidate's eligibility to take the NCE. Any requests a candidate may have regarding eligibility verification to state boards of nursing must be submitted with the application. Requests for eligibility verification to state boards generally will be processed within five business days from the time a candidate has been deemed eligible to sit for the NCE.

The candidate is expected to be familiar with the state board of nursing requirements for licensure to practice as a nurse anesthetist in the state where they intend to practice. Therefore, candidates are responsible for submitting requests for verification to the NBCRNA so they can be completed at the time the NCE application is processed.

Acknowledgment of Receipt of Materials or Confirmation of Eligibility

Due to the large volume of correspondence the NBCRNA receives, email and telephone confirmation of receipt of NCE application materials, eligibility status, and when eligibility verifications to state boards of nursing were sent cannot be acknowledged.

A candidate who has not received an electronic eligibility notification from the NBCRNA within four weeks of the completion date of the nurse anesthesia educational program is requested to contact the NBCRNA by email at support@nbcna.com.

Change of Name

The name that the candidate used on the official NBCRNA NCE application is the name that is submitted to Pearson.

When a candidate appears at the test center, the first and last name, as they appear on the original NBCRNA certification eligibility notification, and two pieces of identification (one bearing a photo) must all match. Candidates will not be allowed to take the test if their identification does not bear the same first and last names as their eligibility notification.

Name changes are not accepted at the test center. If a candidate changes their name after the certification eligibility notification has been sent, the NBCRNA should be notified immediately by email at support@nbcna.com of the change.

Reasonable Accommodation for Persons with Disabilities

The NBCRNA complies with the Americans with Disabilities Act (ADA). To ensure equal opportunity for all qualified persons, a candidate with a documented disability may request a reasonable testing accommodation by submitting a written request, along with supporting documentation, to the NBCRNA with their completed online application. Supporting documentation includes the following:

1. A written personal statement identifying the basis of your need for accommodation, the specific accommodation(s) you are requesting, history of past testing accommodations given, and how a documented disability impacts your testing ability.
2. An NBCRNA Testing Accommodations Request Form completed by a qualified healthcare professional referencing an evaluation conducted within the past five years. Qualified healthcare professionals must be licensed or otherwise properly credentialed, possess expertise in the diagnosis of the disability for which the accommodation(s) is sought, and has administered an individualized assessment of the candidate that supports the need for the requested testing accommodations.

The NBCRNA Testing Accommodations Request Form can be downloaded from your application once you have indicated eligibility for ADA accommodations.

Scheduling Information

The certification eligibility notification contains detailed information about scheduling an appointment with Pearson to take the NCE. This information will include the expiration date of the candidate's eligibility for the NCE. Appointments cannot be scheduled prior to receipt of this email eligibility notification from the NBCRNA, or after the expiration date.

It is strongly recommended that candidates contact Pearson to make an appointment for the NCE as soon as possible after receipt of the NBCRNA certification eligibility notification. Candidates may schedule an appointment to take the NCE on any day that space is available at a Pearson test center.

When making an appointment, candidates should consider that not all test centers are open seven days a week, operate on the same schedule or have the same seating capacity. Pearson usually schedules appointments at least two weeks in advance. A confirmation number for the scheduled appointment will be given to the candidate by Pearson and should be retained until the NCE has been taken.

Scheduling an appointment to take the NCE is strictly between the candidate and Pearson; the NBCRNA will not intervene in these arrangements. No refunds will be made if a candidate is unable to schedule the NCE before their eligibility expiration date. If the candidate does not take the NCE within the 90-day eligibility period, or takes the NCE and fails it, they will have to reapply, pay the full application fee and complete the registration process.

Refunds for Cancellations and No-Shows

There are no refunds issued for any of the following reasons:

- Scheduling the exam.
- Canceling a scheduled examination less than 24 hours in advance of the date and time of the scheduled appointment.
- Arriving more than 15 minutes after the scheduled starting time for the test.
- Failing to appear for the scheduled test.
- Not taking the NCE on or before the eligibility expiration date. The previous application fee cannot be applied to another examination.

If the candidate experiences an emergency, they must provide the NBCRNA with a written description and documentation for review by email at support@nbcna.com. Requests must be submitted within 24 hours of the scheduled test date.

NOTE: Recording the wrong date or time for the scheduled appointment or forgetting to bring the required current, valid identification is not considered an emergency.

EXAMINATION ADMINISTRATION

Admission to the Test Center

Candidates arriving at the test center will be asked for the following before admission to the test: presentation of two separate forms of current, valid identification (ID), both of which must bear a signature and one of which must bear a photo. The photo ID must be a current government-issued ID such as a passport, driver's license, state ID or military ID; an unexpired school ID or employee ID. Both pieces of ID must have the same first and last names as they appear on the certification eligibility notification sent via email by the NBCRNA. Candidates who appear without the specified identification will not be permitted to take the NCE and will be required to pay the reauthorization fee (at time of publication \$75) in order to receive a new eligibility notice.

Admission Procedures

After the initial verification of identity, the candidate will be asked to sign a roster, and to have their photo taken.

Electronic devices (including but not limited to cell phones, tablets and e-readers), reference books, notes and other study materials may not under any circumstances be brought into the test center. During registration a Pearson proctor will provide a sealed bag for your cell phone/electronic device. The bag will be stored in a designated area during your exam. In accordance with exam policy the sealed bag must be opened by a Pearson proctor prior to exiting the Pearson Professional Center. Personal belongings (including bags, watches and wallets) may not be taken into the testing room; they must be stored in designated areas. An erasable note board will be available at the test center for use during the examination: scratch paper is not permitted.

Test Center Environment

It is unlikely that an NBCRNA certification candidate will be the only person taking an examination in the test room. Individuals taking other examinations may be present. Some examinations may require full use of the computer keyboard, and there may be accompanying keyboard noise. In addition, Pearson personnel and other individuals may leave and enter the test room during the certification candidate's test period.

Test centers will make every effort to keep movement of personnel and noise levels to a minimum during examination administrations. However, if a certification candidate believes that noise may be a distraction, they should request earplugs at the test center to use during the NCE.

Candidates with a documented disability shown to require special testing services should refer to the "Reasonable Accommodation for Persons with Documented Disabilities" section.

Taking the Test

At the beginning of the NCE, a Statement of Confidentiality and Nondisclosure Agreement will appear that candidates must read, acknowledge and agree to. If the candidate does not indicate agreement, they will not be allowed to begin the NCE and will have to contact the NBCRNA in writing for reauthorization and pay the reauthorization fee. The content of the NCE, and each individual NCE question, is the property of the NBCRNA, is copyrighted and is strictly confidential information. The retention, possession, copying, distribution, disclosure, discussion or receipt of any NCE question, in whole or in part, by written, electronic, oral or other form of communication, including but not

limited to emailing, texting, electronically posting, copying or printing of electronic files, and reconstruction through memorization and/or dictation, before, during or after the NCE is strictly prohibited.

Candidates should read the directions for entering responses carefully before beginning the test. There is a tutorial with practice questions. The NCE then begins with the appearance of the first exam question. There is a “help” screen that can be referred to at any time during the examination to refresh a candidate’s memory as to how to enter responses. At any time before or during the NCE, candidates may request help regarding the use of the computer.

Questions are presented one at a time on the computer screen. Each question must be answered as it is presented. The question on the screen must be answered before the candidate can move on to the next screen. Candidates should consider each answer carefully and make their best choice.

Once a candidate confirms an answer and goes on to the next question, they are not allowed to go back to any previous questions. Psychometric research has shown that, in general, candidates do not significantly improve their scores by reviewing and changing answers.

Examination Length

Each candidate must answer a minimum of 100 questions. As a candidate takes the NCE, questions are selected based on their response to previous questions. Once 100 questions have been answered, the test will continue, if necessary, until the candidate’s performance is estimated as being either above or below the passing standard with a predetermined level of certainty. Thus, different candidates will have to answer varying numbers of questions and use varying amounts of time. The maximum number of questions is 170 during a three-hour maximum testing period.

Improper Behavior in Connection with the Examination

When applying for the NCE, each candidate must agree to the NBCRNA waiver of liability and agreement of authorization, confidentiality and nondisclosure statements.

The consequences of violating this agreement may include, but are not limited to, the following:

- Loss of eligibility to take the NCE now and in the future.
- Invalidation of NCE results.
- Denial, Suspension or Revocation of certification.
- Assessment of monetary damages.

During the NCE, the performance of all candidates will be monitored. Any candidate who gives or receives assistance, or otherwise engages in dishonest or improper behavior during the NCE, will be required to cease taking the NCE and leave the test center. Test center personnel will notify the NBCRNA office of any improper behavior during the NCE.

After reviewing a reported incident, the NBCRNA will determine whether there is reason to believe that a candidate has engaged in cheating or other improper behavior or has otherwise violated the security of the NCE. If the NBCRNA determines that there is reason to so believe, it may, at its discretion, take any of the following actions:

- Order the candidate to retake the NCE at a time and place to be determined by the NBCRNA.
- Refuse to release the test results of the candidate and, thereby, deny their current application for certification.
- Require the candidate to wait a specified period of time before reapplying to take the NCE.

- Deny, suspend or revoke the candidate's eligibility to sit for the NCE in the future.
- Data forensic statistics are utilized to determine testing anomalies, the NBCRNA will take action and if warranted invalidate an exam score if anomalies are identified.
- Take a combination of any of the above actions or such other action that the NBCRNA may deem appropriate.

Candidates who are aware of improper behavior should report it to NBCRNA's anonymous, third-party tip line at 844-703-1790 or www.nbcrna.ethicspoint.com.

NBCRNA Staff (or a designee of NBCRNA such as counsel) possesses the authority, but not the obligation, to conduct a reasonable investigation of any nurse anesthetist or examinee who may have engaged in conduct that violates any NBCRNA handbook or policy by implementing any of the following:

- Interviewing witnesses;
- Requesting and reviewing documents and data; and
- Taking any other action that NBCRNA deems appropriate under the circumstances.

If any nurse anesthetist or examinee fails to cooperate with an NBCRNA investigation, the failure to cooperate may subject the individual to the denial, suspension or revocation of certification.

POST EXAMINATION

Improper Behavior After the Examination

The content of the NCE exam, and each individual NCE exam question, is the property of the NBCRNA, is copyrighted and is strictly confidential information. The retention, possession, copying, distribution, disclosure, discussion, or receipt of any NCE exam question, in whole or in part, by written, electronic, oral, or other form of communication, including but not limited to emailing, texting, electronically posting, copying, or printing of electronic files, and reconstruction through memorization and/or dictation, before, during, or after the NCE exam is strictly prohibited and may result in disciplinary action, assessment of monetary damages, and legal liability. Candidates who are aware of improper behavior should report it to NBCRNA's anonymous, third-party tip line at 844-703-1790 or www.nbcrna.ethicspoint.com.

Problems at Test Centers

Candidates will have access to a proctor at the test center. As a rule, if a problem occurs with the computer and a candidate has to restart their test on the scheduled test day, the test will be resumed at the point of interruption since the questions and answers are saved. However, if the test cannot be resumed on the same day and the candidate has to reschedule their test, a new NCE will be administered. There will be no charge to the candidate for rescheduling a test if the problem was caused by circumstances at the Pearson test center.

Problems related to admission or administration of the NCE, including any problems related to conditions at a test center, should be reported immediately at the test center before leaving, and as soon as possible, but no later than three business days after the examination, by email to the NBCRNA office at support@nbcrna.com. Reports to the NBCRNA should include the candidate's full name and address, as well as a description of the conditions that caused the problem(s) at the test center.

After reviewing a report of a problem at a test center, the NBCRNA may, at its discretion, determine whether a new NCE should be administered, or another action should be taken. Reports submitted from a program administrator will be considered only if they are accompanied by the candidate's report. The NBCRNA will not consider notice of test administration problems that are received more than three business days after the examination date.

Report of Examination Results

The NCE is scored based on candidate performance in the form of a correct/incorrect response to each question and the difficulty of the questions that an examinee is administered. A numerical estimate of the test taker's ability is determined using Item Response Theory (IRT). A candidate's ability estimate is calculated after each item and is used to determine when the NCE will stop and the pass/fail decision for the candidate. A candidate must obtain a minimum ability estimate, determined by the NBCRNA in order to pass the examination. A pass/fail decision is made when ONE of the following conditions has been met:

- The candidate has clearly met or exceeded the ability estimate to pass the NCE. This decision may be reached at any point between 100 and 170 items.
- The candidate has clearly not met the ability estimate to pass the NCE. This decision may be reached at any point between 100 and 170 items.

- The maximum number of questions (170) has been administered. The pass/fail decision is based on whether the candidate's ability level is above or below the pass/fail point.
- The maximum amount of time (three hours) is reached. A fail decision is made if the candidate has not completed the minimum 100 questions in this time period. If the candidate has completed more than 100 questions, the pass/fail decision is based on whether the candidate's ability level is above or below the pass/ fail point.

Notification of Examination Results

Candidates will receive a preliminary pass/fail report when they check out of the test center. This is preliminary only.

Passing candidates will receive electronic notification that they have passed the NCE, including instructions on how to print their official certification documents from the NBCRNA. They will not receive score information. Pass score data is not available to candidates because that information is often misused by employers and other parties to distinguish among candidates.

Failing candidates will receive electronic notification of failing the NCE. The official result documents from the NBCRNA will also include their total scaled score and diagnostic scaled scores for the four content areas of the NCE — not the actual number of questions answered correctly. The total scaled score reflects the candidate's performance with respect to the content standard (passing score) that has been established by the NBCRNA. The content area scores reflect relative performance compared to other content areas.

The only information available to candidates regarding the results of the NCE will be the information provided on the official results documents from the NBCRNA. Because of the need to maintain test security, test questions cannot be made available for review. Neither the NBCRNA nor Pearson provides a list of the questions.

Not everyone who tests on the same day at the same center will receive their official validated results at the same time because result verification procedures for individual records may take differing amounts of time.

Any candidate who does not receive the pass/fail test results within four weeks of taking the NCE should contact the NBCRNA by email at support@nbcna.com.

Program administrators. Program administrators can access their graduates' results through the NBCRNA Student Management Portal.

State Boards of Nursing. Certification verifications to state boards of nursing are processed with a candidate's passing confirmation and sent electronically to the state boards of nursing within two business days following NCE results processing.

Employers/Third Parties. The NBCRNA does not share examination results with employers. Employers are able to verify a potential employee's certification status free of charge on the NBCRNA website at <https://portal.nbcna.com/credential-verification>.

Candidates should carefully consider making time-sensitive employment-related commitments that require immediate verification of certification (i.e., passing the NCE). Processing of results may, at times, take up to four weeks following the date of the examination, and processing will not be altered for individual requests.

Verification of Examination Results

Because of the sophistication of computerized online scoring and extensive quality-control procedures, errors in scoring are virtually nonexistent. However, candidates who answer the maximum number of questions administered and who receive a failing score may request that their NCE results be verified for a fee (see NBCRNA fee schedule). Requests for verification of NCE results must be made in writing within six months after the test date and must include the following information: candidate's name, ID number, test date, and test center location. Requests should be sent via email to support@nbcrna.com.

Reapplication Procedures

Candidates who fail the NCE must reapply for eligibility to take the examination. An NCE Retake Application will be available online to the candidate once the official NCE results have been processed by the NBCRNA.

The following materials must be submitted online to the NBCRNA to retake the NCE:

- Completed NCE Retake Application.
- Current and unrestricted professional nursing license information.
- If it has been one year or more since the last submission of a color digital photo, a new, color, digital photo (e.g., passport type) of the candidate taken within the last six months.

Once the examination fees and required materials have been submitted, candidates should allow up to five business days for retake application processing. Processing time frames may vary and will not be altered for individual requests.

Candidates granted eligibility will receive a new exam authorized notification, which must be used to schedule an appointment with Pearson to take the test.

The NCE must be taken and passed within two years of official completion of an accredited nurse anesthesia educational program as on file with the NBCRNA and submitted by the program administrator. The NCE may be taken up to four times within each of the two years following the official completion date. The application fee will be required each time a candidate reapplies for the NCE. Candidates who do not take and pass the NCE within two years of completion of their nurse anesthesia educational program will not be eligible to apply to take the NCE unless they enter and complete another unabridged accredited nurse anesthesia educational program. In accordance with NBCRNA Policies and Procedures for Discipline, Administrative Action and Appeals, failure to meet eligibility requirements for certification is not subject to appeal.

DISCIPLINE, ADMINISTRATIVE ACTION AND APPEALS

Pursuant to NBCRNA Policies & Procedures for Discipline, Administrative Action and Appeals (“Policies”), Certified Registered Nurse Anesthetists, examinees, and applicants for Certification. Continued Professional Certification (“CPC”), or Maintaining Anesthesia Certification (“MAC”) (collectively “certification”) are subject to disciplinary or administrative action for engaging in conduct that NBCRNA regards as inconsistent with unrestricted certification. The Policies set forth the conduct that can lead to sanctions, the procedures that will govern, the sanctions that can be imposed, the appeal rights of any individual who is sanctioned, and provisions for reinstatement of certification. The Policies can be accessed on the NBCRNA website, www.NBCRNA.com, or requested from the NBCRNA.

SAMPLE QUESTIONS

For samples of the alternative question format types — multiple correct response (MCR), calculation, hotspot, and drag and drop questions — see the Exam Tutorial and Item- writing section of the NBCRNA website at www.nbcrna.com.

APPENDIX A:

ACADEMIC AND CLINICAL EXPERIENCE REQUIREMENTS

Every individual who applies for eligibility to sit for the NCE must submit evidence of successful completion of a COA-accredited nurse anesthesia educational program. NBCRNA requires submission of an academic and clinical experience record as a component to determine NCE eligibility. This record must be submitted by the nurse anesthesia educational program administrator and is not accepted directly from the NCE applicant.

All applicants for the NCE must report successful completion of Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS) courses. ACLS and PALS must be current at the time of NCE application submission and have expiration dates on or after the date of the nurse anesthesia educational program completion. This information will be submitted by the nurse anesthesia educational program administrator at the time the academic and clinical experience requirements are reported.

For students who will be awarded a Doctoral degree upon program completion, the following academic experiences must be met:

Academic

- Advanced Physiology/Pathophysiology Course (120 hours).
- Advanced Pharmacology Course (90 hours).
- Advanced Health Assessment Course (45 hours).
- Basic and Advanced Principles in Nurse Anesthesia Course (120 hours).
- Research (75 hours).
- Human Anatomy.
- Chemistry.
- Biochemistry.
- Physics.
- Genetics.
- Acute and Chronic Pain Management.
- *12-lead ECG.
- Radiology.
- Ultrasound.
- Anesthesia Equipment.
- Professional Role Development.
- Wellness and Substance Use Disorder.
- Informatics.
- Ethical and Multicultural Healthcare.
- Leadership and Management.
- Business of Anesthesia/Practice Management.
- Health Policy.
- Healthcare Finance.
- Integration/Clinical Correlation.

Clinical Experiences

The following table lists the minimum number of the types of clinical experiences a graduate from a COA- accredited nurse anesthesia program must report to the NBCRNA as part of the applicant's NCE application materials.

| TITLE | MINIMUM NUMBER |
|------------------------------------|------------------------------|
| Total Cases | 600 |
| Anesthesia Hours | |
| Clinical Hours | 2000 |
| Class I/II | |
| Class III-VI | 200 (Total of A, B, C and D) |
| *650 | |
| A. Class III | 50 |
| B. Class IV | 10 |
| C. Class V | |
| D. Class VI | |
| *Patient Assessment | |
| Initial Preanesthetic Assessment | 50 |
| Postanesthetic Assessment | 50 |
| Comprehensive History and Physical | |
| A. Actual | |
| B. Simulated | |
| TITLE | MINIMUM NUMBER |
| Geriatric 65+ years | 100 |
| Pediatric 2 to 12 years | 30 |
| Pediatric (less than 2 years) | 10 |
| Neonate (less than 4 weeks) | |
| Trauma/Emergency | 30 |
| Obstetrical Management | 30 (Total of A and B) |
| A. Cesarean Delivery | 10 |
| B. Analgesia for Labor | 10 |
| Pain Management Encounters | 15 |
| TITLE | MINIMUM NUMBER |
| Intra-abdominal | 75 |
| Intracranial (includes open) | 5 |

| | |
|-----------------------------------|---------------------------|
| Open | 3 |
| Oropharyngeal | 20 |
| Intrathoracic | 15 (Total of A ,B, and C) |
| Heart | |
| A. Open Heart Cases | 5 (Total of 1 and 2) |
| 1. With Cardiopulmonary Bypass | |
| 2. Without Cardiopulmonary Bypass | |
| B. Closed Heart Cases | |
| C. Lung | 5 |
| D. Other | |
| Neck | 5 |
| Neuroskeletal | 20 |
| Vascular | 10 |

| TITLE | MINIMUM NUMBER |
|---|------------------------|
| General Anesthesia | 400 |
| *Perform a General Anesthetic Induction With Minimal or No Assistance | 50 |
| Inhalation Induction | 25 |
| Mask Management | 25 |
| Supraglottic Airway devices | 35 (Total of A and B) |
| A. Laryngeal Mask | |
| B. Other | |
| Tracheal intubation | 250 (Total of A and B) |
| A. Oral | |
| B. Nasal | |
| Alternative Tracheal Intubation Techniques | 25 (Total of A and B) |
| A. Endoscopic Techniques | 5 (Total of 1 and 2) |
| 1. Actual Placement | |
| 2. Simulated Placement | |
| 3. Airway Assessment | |
| B. Other techniques | 5 |
| Emergence from Anesthesia | 300 |

| TITLE | MINIMUM NUMBER |
|--|--------------------------|
| Regional Techniques: Actual Administration | 35 (Total of A, B and C) |
| A. Spinal | 10 (Total of 1 and 2) |
| 1. Anesthesia | |
| 2. Pain Management | |
| B. Epidural | 10 (Total of 1 and 2) |
| 1. Anesthesia | |
| 2. Pain Management | |
| C. Peripheral and Other | 10 (Total of 1 and 2) |
| 1. Anesthesia | |
| a. Upper | |
| b. Lower | |
| c. Other | |
| 2. Pain Management | |
| a. Upper | |
| b. Lower | |
| c. Other | |
| Regional Techniques: Management | 35 (Total of 1 and 2) |

| | |
|---|-----------------------|
| 1. Anesthesia | |
| 2. Pain Management | |
| Moderate/Deep Sedation | 25 |
| TITLE | MINIMUM NUMBER |
| Arterial Puncture/Catheter Insertion | 25 |
| Intra-arterial BP Monitoring | 30 |
| Central Venous Catheter (CVC) Placement – Non PICC | 10 (Total of A and B) |
| A. CVC Non-PICC: Actual | 1 |
| B. CVC Non PICC: Simulated CVC Placement – PICC | |
| A. CVC Placement PICC: Actual | |
| B. CVC Placement PICC: Simulated | |
| CVC Monitoring | 15 |
| Pulmonary Artery (PA) Catheter Placement | |
| PA Catheter Monitoring | |
| *Ultrasound Guided Techniques | 20 (Total of A and B) |
| A. Regional | 10 |
| 1. Actual Regional | |
| 2. Simulated Regional | |
| B. Vascular | 10 |
| 1. Actual Vascular | |
| 2. Simulated Vascular | |
| *Point of Care Ultrasound (POCUS) | |
| A. Actual | |
| B. Simulated | |
| Intravenous Catheter Placement | 100 |
| Advanced Noninvasive Hemodynamic Monitoring | |
| *Assessment of Chest X-Ray | 5 |

*Required for NAEP enrollees after 1/1/2022