

CSEFA

CANDIDATE HANDBOOK

2024 1ST Edition

National Examination for the
Certified Surgical First Assistant



THE NATIONAL BOARD OF SURGICAL TECHNOLOGY
AND SURGICAL ASSISTING

SINCE 1970

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Section One

About the NBSTSA

MISSION AND VISION

The mission of the NBSTSA is to be the gold standard provider of professional certification of surgical technologists (CST) and surgical first assistants (CSFA), supporting continuing education, thus promoting superior patient care in the surgical setting.

The vision of the NBSTSA is to continue to operate as the gold standard provider of credentialing services for surgical technologists and surgical first assistants, and to expand the provision of high quality, safe patient care in the healthcare community.

HISTORY AND PURPOSE

Certification for surgical technology began in 1970 when the first examinations were created and administered by the AORT Advisory Committee and the AORT Examination Committee. The National Board of Surgical Technology & Surgical Assisting (NBSTSA), initially the LCC-ST, was formally established in 1974 as the certifying agency for surgical technologists.

The NBSTSA is solely responsible for all decisions regarding certification of surgical technologists (CST) and surgical first assistants (CSFA). They determine eligibility to maintain, deny, grant and renew both designations.

The NBSTSA is governed by a ten member Board of Directors composed of:

- Seven Certified Surgical Technologists (CSTs) and Certified Surgical First Assistants (CSFAs);
- One public member;
- One surgeon, as appointed by the American College of Surgeons (ACS);
- One surgical technology educator

The purpose of the NBSTSA is to determine, through examination, if an individual has acquired both theoretical and practical knowledge of surgical technology or surgical first assisting. In addition, through the acquisition of continuing education credits or through re-examination, all CSTs and CSFAs are required to stay up to date with ongoing changes in the medical field.

NATIONALLY ACCREDITED PROGRAM

The National Commission for Certifying Agencies (NCCA) reviews and grants accreditation to the NBSTSA for administration of both the CST and CSFA certifications.

The NCCA evaluates certifying agencies on a comprehensive set of criteria, including appraising the appropriate certification requirements, assessing the occupation being certified and weighing both the validity and reliability of the certifying examinations, as well as the extent to which the public interest is protected.

PURPOSE OF CERTIFICATION

Certification as a surgical technologist or surgical first assistant demonstrates that the individual meets the national standard for knowledge that underlies surgical technologist and surgical first assistant practices. Certified individuals possess mastery of a broad range of skills related to surgical procedures, aseptic technique and patient care.

Certification exhibits an individual's pride in the profession, the desire to be recognized for mastery of scientific principles, as well as an ongoing commitment to quality patient care. Certification is a means for upward mobility, a condition for employment, a route to higher pay and a source of recognition nationwide.

Approved candidates who take and pass the CST or CSFA examinations are authorized to use the initials CST or CSFA respectively, as long as they maintain certification currency.

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Section Two

Eligibility

ESTABLISHING ELIGIBILITY TO TEST

To become certified, individuals must first establish eligibility to test. The following table explains all available eligibility options and should be reviewed prior to submitting an examination application and related fees. The NBSTSA retains the sole authority to establish eligibility requirements, makes all final decisions regarding examination eligibility and does not refund processing fees or rush processing fees for candidates who apply and are found to be ineligible.

ELIGIBILITY TABLE

1	Current or previously Certified Surgical First Assistant (CSFA)	Evidence of CSFA certification
2	A graduate of a Surgical First Assistant program accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) www.caahep.org	Evidence of graduation: copy of diploma, transcript or notarized and signed letter, MUST be on official school letterhead, from program director or registrar stating date of graduation from the surgical tech program and type of degree received.

Once you have determined that you are eligible to sit for the examination, submit your application, supporting documentation and testing fees to the NBSTSA for processing. Once approved, the NBSTSA will send you an Authorization To Test email (ATT) which includes your ATT number and contact information for the testing agency, so you can schedule your examination.



SPECIAL ACCOMMODATIONS AND SERVICES

The National Board of Surgical Technology and Surgical Assisting (NBSTSA) provides reasonable accommodations in accordance with the Americans with Disabilities Act as amended (ADAAA) for individuals with documented disabilities who demonstrate a need for accommodation(s). In accordance with the ADAAA, the NBSTSA does not discriminate against individuals with disabilities in providing access to examination programs.

ADAAA regulations define a person with a disability as someone with a physical or mental impairment that substantially limits one or more major life activities such as walking, seeing, hearing or learning.

The purpose of accommodations is to provide equal access to NBSTSA examinations for all individuals. Accommodations “match up” with the identified functional limitation so that the area of impairment is relieved with an auxiliary aid or an adjustment to the testing procedure. Functional limitation refers to the aspects of a disability that interfere with an individual’s ability to function; that is, what someone cannot do on a regular and continuing basis as a result of their disability.

The purpose of documentation is to validate that an applicant for test accommodations is covered under the ADAAA as a disabled individual. Comprehensive information by a qualified professional is necessary to allow the NBSTSA to understand the nature and extent of the applicant’s disability and the resulting functional impairment that limits access to examinations. Documentation also allows the NBSTSA to provide appropriate accommodations for such a disability.

The NBSTSA will provide, without cost to the candidate, reasonable accommodations designed to facilitate equal access to its certifying examination for those candidates whose documentation supports such a determination. In no case will accommodations be provided which would compromise the examination’s ability to test accurately the skills and knowledge it professes to measure. Similarly, no auxiliary

aid or service will be provided that would fundamentally alter the examination.

ADAAA confidentiality: The NBSTSA strictly adheres to a policy of confidentiality and does not disclose names of applicants with disabilities or information concerning the application or accompanying documentation. Examinations administered with accommodations are not identified to third party score recipients and are scored no differently than examinations of other certification candidates. The application and guidelines related to examination accommodations may be found in the back of this Candidate Handbook.

MILITARY APPLICANTS

Military applicants stationed overseas may request to test through their base education office, rather than at one of the NBSTSA’s established testing centers.

The base education center can administer a web based examination if the military post is more than 100 miles from a testing center. The NBSTSA will mail the test results directly to the testing candidate within six (6) weeks of the examination.

To utilize the NBSTSA military base education center applicants must select that option on the examination application, requesting administration through the base education center. NBSTSA staff will contact the applicant to determine the base name, geographic location (base and country), the testing officer’s name, mailing address and telephone number. All applications must be received by NBSTSA a minimum of 45 days prior to the requested examination date.

NON-DISCRIMINATION POLICY

The NBSTSA accepts all properly completed applications from qualified applicants regardless of the applicant’s age, sex, race, religion, marital status, disability or national origin.

Section Three

Scheduling your Examination

APPOINTMENT

When you receive your ATT email you may schedule your exam with PSI by one of the following methods. Be prepared to confirm a date and location for testing.

Schedule Online: Candidates may schedule an examination appointment online by using the PSI online scheduling system.

To use this service follow the link included in your ATT email.

OR

Schedule by Phone: Candidates may schedule an examination appointment by calling PSI at:

- 1-833-256-1425. This number is answered from:
- 7 a.m. to 9 p.m. (CST) Monday–Thursday
- 7 a.m. to 7 p.m. on Fridays
- 8:30 a.m. to 5 p.m. on Saturdays

The examinations are administered by appointment only Mon–Sat at 9 a.m. and 1:30 p.m. Individuals are scheduled on a first-come, first-serve basis.

If you call PSI by 3:00 p.m. Central Time on...	Upon availability, your examination may be scheduled beginning...
Saturday or Monday	Wednesday
Tuesday	Thursday
Wednesday	Friday/Saturday
Thursday	Monday
Friday	Tuesday

When the appointment is made, the candidate will be given a time to report to the Assessment Center. A confirmation email will be sent. Candidates will only be allowed to take the examination for which the appointment has been scheduled. No changes in examination type will be made at the Assessment Center. **UNSCHEDULED CANDIDATES (WALK-INS) WILL NOT BE ADMITTED** to the Assessment Center.

It is recommended that candidates call to schedule their test upon receipt of their ATT email from the NBSTSA, even if they do not want to test immediately. The examination must be taken before the expiration date provided on the ATT email to avoid forfeiture of examination fees.

IDENTIFICATION

To gain admission to the Assessment Center, candidates must present two (2) forms of identification (*one must have 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 and attendance.

Acceptable forms of identification include a current:

1. Driver's license with photograph
2. State identification card with photograph
3. Passport with photograph
4. Military identification card with photograph
5. Permanent resident card (green card) with photograph
6. Social Security card, employment ID card, student ID cards and any type of temporary identification are NOT acceptable as primary identification, but may be used as secondary identification.

Candidates are prohibited from misrepresenting their identities or falsifying information to obtain admission to the Assessment Center.

The name on the primary and secondary identification must match the name on your Authorization To Test email (ATT).

If you do not have the required identification, PSI testing center staff will deny admission to the test and all testing fees will be forfeited, since an appointment was reserved for you.

EXAMINATION DAY REPORTING TIME

PSI staff members will give you a specific reporting time when you schedule the examination. Please allow sufficient time to find the testing center. Make sure you have all

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necessary documents before you report for registration. A candidate who arrives 15 minutes or more after their scheduled testing time will NOT be admitted. Candidates who arrive late are considered absent and forfeit all examination fees paid.

INCLEMENT WEATHER, POWER FAILURE OR EMERGENCY

In the event of inclement weather or unforeseen emergencies on the day of an examination, PSI will determine whether circumstances warrant the cancellation and subsequent rescheduling of an examination. The examination is not typically rescheduled if the Assessment Center personnel are able to open the Assessment Center. If power to an Assessment Center is temporarily interrupted during examination administration, the examination will restart where it was interrupted and the examination will continue.

Candidates may contact the PSI Weather Hotline at 800-380-5416 (24 hours/day) prior to the examination to determine if PSI has been advised that the Assessment Center is closed. Every attempt is made to administer the examination as scheduled; however, should an examination be cancelled at an Assessment Center, all scheduled candidates will receive notification regarding rescheduling or reapplication procedures. If PSI is unable to honor the appointment, the examination will be rescheduled to the first available appointment of your choice (within the specified ATT eligibility period). Candidates are asked to provide a primary phone number during the registration process so examination administrators can contact them in case of an unforeseen problem at the center.

In the event of an unforeseen personal emergency, variances from the policy may be considered when the candidate submits a written statement of the reason(s) they were unable to take the examination as scheduled or meet the 48 hour cancellation deadline. Candidates must contact NBSTSA office within five (5) business days of the missed exam. The written statements should be accompanied by supporting documentation and reach the NBSTSA headquarters no later than 30 business days after the scheduled examination.

There are six (6) acceptable reasons for late rescheduling or failing to appear:

1. Serious illness - either the candidate or immediate family members
2. Death of an immediate family member
3. Disabling accident
4. Court appearance or jury duty
5. Unexpected military duty call-up
6. Extenuating circumstances

Candidates must submit documentation in addition to a written request outlining their emergency for review by NBSTSA and PSI. Candidates will be notified as to whether or not they are approved to retake the examination. Candidates may be responsible for processing fees.

EXAMINATION APPOINTMENT RESCHEDULING/FAILURE TO REPORT OR TO SCHEDULE AN EXAMINATION

A candidate may reschedule an examination appointment at no charge ONE (1) TIME by calling PSI at 1-833-256-1425 at least 48 hours prior to the scheduled testing session. Candidates should keep in mind that the rescheduled examination date must fall within their six (6) month examination eligibility period.

A candidate who wishes to reschedule his/her examination appointment, but fails to contact PSI at least 48 hours prior to the scheduled testing session will forfeit the total testing fee and will need to reapply with the NBSTSA and submit the appropriate examination fee to receive a new Authorization To Test email (ATT).

TEST ADMINISTRATION

After your identification has been confirmed, you will be directed to a testing carrel. You will be instructed on-screen to enter your social security number or ATT number. Your photograph will be taken and remain on the screen throughout your examination session. This photograph will also print on your score report. Prior to attempting the examination, you will be given the opportunity to practice taking an examination on the computer. The time you use for this practice examination

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is NOT counted as part of your examination time or score. When you are comfortable with the computer testing process, you may quit the practice session and begin the timed examination.

EXAMINATION RESTRICTIONS/ MISCONDUCT

- No textbooks, notes or study materials of any kind are allowed in the testing room.
- No personal items, valuables or weapons are allowed in the Assessment Center. Only keys and wallets may be taken into the testing room. The NBSTSA/PSI are not responsible for items left in the reception area. Use of cellular phones or other electronic devices is strictly prohibited and will result in dismissal from the examination.
- Pencils will be provided during check-in. You will be provided with scratch paper to use during the examination. You must sign and return the scratch paper to the supervisor at the completion of testing, or you will not receive a score report. No documents or notes of any kind may be removed from the examination room. If you need a second piece of scratch paper, you need to ask the test proctor for another piece of paper and turn in the one you used before.
- No questions concerning the content of the examination may be asked during the examination.
- The examination is four (4) hours in length. You may take a break whenever you wish, but you will not be allowed additional time to make up for time lost during breaks.

EXAMINATION SECURITY

The NBSTSA and PSI maintain examination administration and 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. All examination questions are the copyrighted property of the NBSTSA. It is forbidden under federal copyright law to copy, reproduce, record, distribute and/or display these examination

questions by any means, in whole or in part. Candidates are not permitted to discuss examination contents or remove examination materials from the testing sites at any time. Doing so may subject the individual to severe civil and criminal penalties.

TESTING BY LIVE REMOTE PROCTORING (LRP)

1. Prior to scheduling LRP, perform the system compatibility check found on the NBSTSA website nbstsa.org
2. Please arrive up to 15 minutes prior to or examination start time
3. Make sure you have the Chrome browser installed
4. Provide your acceptable form of identification
5. Ensure your testing environment is clear, quiet and free from distractions
6. A web camera and microphone are required for testing

For additional information on Live Remote Proctoring (LRP) go to nbstsa.org/live-remote-proctoring

RE-TESTING

Surgical first assistant candidates who are unsuccessful in passing the examination may test up to a total of three (3) times in a calendar year. Candidates are required to pay the total testing fee (processing and examination) each time they test. Candidates will be required to submit another application to receive reauthorization to test. There is no waiting period before you may submit an application to re-test.

DENIAL/REVOCAION OF CERTIFICATION POLICY

The NBSTSA may consider revocation or denial of certification. Examples of the activities that may cause revocation or denial of certification include, but are not limited to the following:

1. Possession, use or attempt to use altered or falsified certification cards or certificates;
2. Obtaining or attempting to obtain certification or recertification by fraud or deception;
3. Knowingly assisting another to obtain or attempt to obtain certification or recertification by fraud or deception;
4. Unauthorized possession or distribution of examination materials including reproduction of examination questions;
5. Violation of examination rules, including but not limited to, cheating on the examination.

The NBSTSA retains the sole authority to amend or repeal its policies regarding denial or revocation of certification at any time including, but not limited to, the authority to add new grounds for denial or revocation and add provisions for suspension of certification.

RIGHT TO APPEAL POLICY

Individuals have the right to appeal decisions made by the NBSTSA regarding their certification, eligibility and/or recertification. Eligibility appeals must be based on an incorrectly denied application for eligibility to test; the eligibility rules themselves are not appealable. Pass/Fail examination scores are not appealable to the Board of Directors but fall under the NBSTSA complaint policy, and complaint must be filed with NBSTSA within 30 days of the adverse pass/fail decision. The following describes the appeals process:

1. An individual must submit a written appeal by mail to the NBSTSA Board of Directors with current correspondence associated with the appeal (ex. examination denial notification) and supporting documentation (i.e. letters of recommendation, proof of graduation) with a \$100.00 non-refundable fee.
2. Appeals will be reviewed by the NBSTSA Board of Directors at their scheduled spring & fall meetings.
3. Candidates will be notified by the NBSTSA office of the final decision from the Board of Directors. Once a decision has been made by the NBSTSA Board of Directors, there is no further appeals process.



Section Five

Content Outline

SURGICAL FIRST ASSISTANT CERTIFYING EXAMINATION CONTENT OUTLINE

The CSFA examination content is based on tasks performed by CSFAs nationwide. A job analysis survey was conducted to identify specific tasks related to the frequency and importance of Surgical First Assistants nationwide. The results of the job analysis were used to develop the content outline for the examination, which is evaluated on a prescribed schedule to ensure that the overall examination content reflects current surgical first assistant practice.

The CSFA examination consists of 175 questions, 150 of which are scored. The 25 pretest items (unscored) are randomly distributed throughout the examination for the purpose of analysis and statistical evaluation. The passing score is the minimum number of questions that must be answered correctly. Candidates should refer to nbtsa.org for the number of questions which must be answered correctly in order to obtain a passing score. Score reports are provided to all candidates who take the examination.

I. PERIOPERATIVE CARE (83 items)

A. Preoperative Preparation (8 items)

1. Pre-op introduction to patient.
2. Assist with the plan of care under the direction of a physician.
3. Review medical chart: History, Physical, Laboratory results, diagnostic results, and allergies, etc.
4. Verify surgical consent.
5. Prepare and maintain operating room environment according to surgical procedure (e.g., temperature, humidity, lights, furniture).
6. Confirm availability of grafts.
7. Confirm availability of any items needed for implantation (e.g., breast implants, tissue expanders, biological mesh, etc.).
8. Obtain instruments, supplies, and equipment and verify readiness for surgery.
9. Select appropriate patient positioning devices.
10. Obtain positioning equipment specific to specialty procedures.
11. Verify availability of medical supplies (e.g., vendor trays, suture & hemostatic agents, and "hold" items etc.).
12. Select appropriate suture based on: usage, tissue type, and specific wound characteristics.
13. Ensure that operating personnel are wearing appropriate attire.
14. Perform hand hygiene.
15. Verify packaging of sterile supplies; Items are not expired.
16. Anticipate the needs of the surgical team prior to entering the operating room.
17. Apply safety strap.
18. Apply, connect, activate antiembolic devices.
19. Assist anesthesia provider.
20. Don personal protective equipment.
21. Open sterile supplies while maintaining aseptic technique.
22. Assist with positioning of patient (e.g., supine, prone, lateral, chest, or lithotomy) considering patient comfort & safety, points of pressure, circulation, nerve damage and familiarity with common positions.
23. Remove external appliances.
24. Apply return electrode pad.
25. Apply pneumatic tourniquet.
26. Insert and/or assist with placement of Foley catheter.
27. Utilize appropriate skin preparation techniques.
28. Perform surgical hand scrub, gowning, and gloving.
29. Gown and glove sterile team members.
30. Specify methods of operative exposure.
31. Perform and/or assist with draping of patient utilizing aseptic technique.
32. Throw all cords off of the patient for circulator to connect.
33. Perform open and closed gloving techniques.
34. Test operational efficiency of equipment prior to use as appropriate.
35. Utilize thermoregulatory devices.
36. Observe sounds by electrical devices not in use.
37. Actively participate in Time Out.

B. Intraoperative Procedures (67 items)

1. Facilitate the efficiency of the surgical procedure.
2. Provide assistance to the rest of the surgical team in the assessment and care of the patient.
3. Assess and reduce risk for intraoperative injuries.
4. Awareness of patients intraoperative status (e.g., vital signs, monitor color of blood, onset of blood loss, monitor position of patient during procedure).
5. Manipulate body tissues and anatomic structures (e.g., Halsted's Principles, tissue manipulation methods, traction/counter traction).
6. Utilize appropriate techniques for tissue dissection.
7. Operate specialty equipment (e.g., endoscopic devices, harmonic scalpel, power equipment).
8. Utilize vessel loops.
9. Facilitate the use of stapling devices (i.e., intraluminal, linear, robotic, endoscopic, etc.).
10. Prepare grafts for tissue transplantation.
11. Irrigate surgical wound.
12. Utilize appropriate suction equipment and techniques (e.g., liposuction, free-standing powered suction, suction D&C machine, etc.).

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13. Assist in minimally invasive and robotics cases.
14. Assist in I & D procedures.
15. Assist in wound debridement.
16. Assist with incision.
17. Insert of trocars under direct visualization.
18. Inject local anesthetic.
19. Provide visualization of the operative site using appropriate methods, including: manipulation of tissue and materials, retraction, sponging, suctioning, and irrigation.
20. Tie or tag sutures as needed.
21. Cut sutures as needed.
22. Initiate corrective action for any break in sterile technique: avoid contamination of sterile drapes, personnel, & instruments; and communicate any witnessed or suspected contamination to surgical team.
23. Move patient or body part to minimize the potential for iatrogenic injury while providing surgical exposure.
24. Monitor traffic in and out of the OR.
25. Utilize appropriate techniques to assist with hemostasis - Temporary: apply tourniquets and demonstrate awareness of the indications/contraindications for use, apply vessel loops, apply non crushing clamps, and apply direct digital pressure.
26. Utilize appropriate techniques to assist with hemostasis -Permanent: clamping and/or cauterizing vessels or tissue, tying and/or ligating clamped vessels or tissue, applying hemostatic clips, and placing local hemostatic agents.
27. Apply knowledge of anatomy and surrounding structures pertaining to the operative procedure.
28. Verification of medication labels.
29. Handle sharps appropriately.
30. Proper assembly and disassembly of specialty instruments.
31. Troubleshoot malfunctioning equipment or call biomedical equipment staff.
32. Handle specimens appropriately.
33. Select appropriate wound drainage or vacuum devices.
34. Assist in the placement and securing of surgical drains, catheters and tubes.
35. Monitor use of supplies and solutions during procedure.
36. Perform or assist with closure of tissue planes; Suturing, Skin staples.
37. Participate in counting sharps, instruments and sponges.
38. Apply appropriate suturing techniques for wound closure.
39. Protect integrity of catheters, drains, and intravascular lines.
40. Observe for alteration of skin integrity.
41. Transfer the patient during Intra-Op.

C. Postoperative Procedures (8 items)

1. Clean and prepare patient's wound for sterile dressing.
2. Apply appropriate wound dressing.
3. Remove Foley catheter as indicated.
4. Apply negative pressure wound therapy.
5. Perform or assist in application of splints or casts.
6. Remove drapes, cords, instruments, etc. from patient.
7. Remove contaminated gown and gloves using appropriate technique.
8. Ensure patient safety and privacy during emergence from anesthesia.
9. Application of immobilization devices.
10. Dispose of contaminated sharps, wastes and supplies in compliance with Standard Precautions.
11. Change dressings.
12. Remove sutures and/or staples.
13. Perform hand hygiene
14. Assist with room turnover.

II. ANCILLARY DUTIES (21 items)

A. Administrative and Personnel (6 items)

1. Serve as technical subject matter expert to the rest of the surgical team.
2. Use effective communication skills to relay patient specific considerations.
3. Use interpersonal skills (e.g., listening, diplomacy, responsiveness) and group dynamics.
4. Apply ethical and legal practices related to surgical patient care.
5. Maintain awareness of appropriate environmental controls (e.g., temperature, air exchanges, humidity).
6. Assist in resuscitation of patient during cardiac arrest or other life-threatening events.
7. Follow All Hazards emergency protocols.
8. Recognize safety and environmental hazards (e.g., lasers, radiologic equipment, fire, chemical spill, tissue plume).
9. Apply culturally and socially competent strategies to bridge or mediate between the patient's culture and the care team.

B. Equipment Sterilization and Maintenance (15 items)

1. Maintain current knowledge of operative equipment (such as, but not limited to): diagnostic equipment, electrosurgery units (e.g., monopolar, bipolar, vessel sealing), patient positioning equipment, endoscopic instruments and equipment, positioning and stabilizing OR equipment, doppler, dermatome and mesher, robotics, and power equipment (e.g., drills, saws).

Section Five

Content Outline

III. ADVANCED SCIENCE (46 items)

A. Advanced Anatomy and Physiology (36 items)

1. Apply advanced knowledge of pathophysiology and histology to handling and manipulation of tissue for:
 - a. abnormal anatomy (e.g., gastrointestinal tract, genitourinary tract, neurological, cardiothoracic, congenital defects)
 - b. disease processes (e.g., gastrointestinal tract, genitourinary tract, cardiovascular, respiratory, endocrine)
 - c. fractures (e.g., hip, shoulder, wrist, ankle, pelvis/spine)
 - d. malignancies (e.g., carcinomas, sarcomas, neurological malignancies, lymphatic malignancies, and metastatic disease)

B. Advanced Principles Of Microbiology (5 items)

1. Practice Standard Precautions.
2. Apply the following principles of surgical microbiology to operative practice:
 - a. classification and pathogenesis
 - b. factors influencing wound healing (e.g., condition of patient infectious processes, wound type)
 - c. infection control procedures (e.g., aseptic technique)

C. Surgical Pharmacology and Anesthesia (5 items)

1. Apply advanced knowledge of pharmacology and anesthesia concepts to operative practice to:
 - a. assist physician in treating pharmacologic and/or complications
 - b. handle and administer pharmacologic agents,
 - c. recognize signs and symptoms of drug reactions and interactions
 - d. the use of anesthesia methods to assist anesthesia providers.
2. Verify medications and solutions at the sterile field.
3. Calculate amount of medications and solutions used.
4. Mix medications and solutions at the sterile field.

SAMPLE QUESTIONS FOR THE CSFA EXAMINATION

The following questions are representative of those which appear on the CSFA examination. For the following questions, choose the one best answer to each.

1. What is the desired effect of atropine when used as a preoperative medication?

- A. Drowsiness
- B. Pain relief
- C. Decreased anxiety
- D. Drying of secretions

2. The word "hernia" is a Latin term meaning what?

- A. Defect
- B. Rupture
- C. Opening
- D. Closure

3. What type of incision is usually used for an open cholecystectomy?

- A. McBurney's
- B. Pfannenstiel
- C. Lower Midline
- D. Right Subcostal

4. The main consideration in surgical needle selection is:

- A. To minimize microbial growth
- B. Stabilization within the jaws of the needle holder
- C. To minimize trauma
- D. Corrosion resistance

5. Which denotes a civil wrong committed against a person or property, excluding a breach of contract?

- A. Assault
- B. Fraud
- C. Tort
- D. Nonfeasance

ANSWERS: 1-D, 2-B, 3-D, 4-C, 5-C

CSFA REFERENCE LIST

The Certification Examination Reference Lists contain the texts used to develop the questions for the certification examinations. The CSFA Examination Review Committee uses the most current edition of each text listed for reference when creating examination questions.

New editions of each text may be published after the Candidate Handbook is printed. Candidates need to be sure they utilize the most recent edition of each text. Candidates may find the texts at libraries, bookstores or on the internet.

CSFA EXAMINATION RECOMMENDED REFERENCES

The most current editions of the books listed below are used for reference by the NBSTSA and the CSFA-ERC.

SURGERY

- Alexander's Care of the Patient in Surgery, 2019, 16th Edition, Jane C. Rothrock
ISBN# 9780323479141
- Basic Surgical Techniques, 2018, 7th Edition, RM Kirk
ISBN# 0702073229
- Berry & Kohn's Operating Room Technique, 2017, 13th Edition, Nancy Marie Phillips
ISBN# 978323399265
- Schwartz's Principles of Surgery, 11th Edition, Brunicaudi
ISBN# 9781259835353
- Surgical Technology: Principles and Practice, 2018, 7th Edition, Joanna Kotcher
ISBN# 9780323394734

A&P

- Principles of Anatomy and Physiology, 2013, 14th Edition, Tortora
ISBN# 9781118345009

PHARMACOLOGY

- Pharmacology for the Surgical Technologist – 2017, 4th Edition, Snyder & Keegan
ISBN# 9780323415019

REFERENCE

- Taber's Cyclopedic Medical Dictionary, 2017, 23rd Edition, F.A. Davis
ISBN# 9780803659049

MISC/INSTRUMENTATION

- The Ethicon Knot Tying Manual
www.ruralareavet.org/PDF/Surgery-Knot_Tying.pdf
- AST Guidelines for Best Practices in Surgical Technology
www.ast.org/AboutUs/Position_Statements
- American Heart Association – CPR Guidelines
www.heart.org

STUDY TIPS

- 1. Learn about the examination by reviewing your candidate handbook:** This candidate handbook contains a content area outline, recommended reference list and sample questions.
- 2. Examination content area outline:** Familiarize yourself with each subject listed in the outline – all of these items may appear on the examination.
- 3. Recommended reference list:** These references were used to create the examination questions. Cross reference the content outline with these materials.
- 4. Practice:** The NBSTSA offers Practice Examinations online at nbstsa.org. Candidates can print this to continue to study from and will receive analysis of individual questions and overall performance.
- 5. Evaluate:** Complete the Examination Study Evaluation on nbstsa.org to find out what areas of the examination you need to focus your study attention.
- 6. Connect:** Like us on Facebook and connect with other candidates and CSFAs and find out what did and didn't work for them when taking the examination. Find people in your area and create a study group!

CSFA Examination Study Evaluation

The CSFA examination is created based on the content outline, using questions from the surgical first assistant item bank. The outline determines how many questions from each area appear on the examination. For each subject area listed, score your knowledge level based on the rankings below.

LEVEL OF COMPETENCY SCORE

- 1. Very Knowledgeable:** I am very familiar with this content area and believe that my education and experiences have fully prepared me. I know the current practices and am current on the latest developments.
- 2. Knowledgeable:** I am reasonably familiar with this content area and believe my education and experiences have prepared me fairly well.
- 3. Undecided:** I have some familiarity with this content area; however there may be a few subjects where I am not as strong and need further review.
- 4. Not Very Knowledgeable:** I have knowledge deficits in this content area and will need to study this material to gain more familiarity.
- 5. Not Knowledgeable:** This is an area of weakness for me. I will need to focus on this area during my studies and possibly seek help from a mentor.

In order to determine what content areas you will need to review the most, match the subject areas with the scores of 3, 4 or 5.

Subject area	Level of Competency score	Number of questions on the exam
Peri-Operative Care: Pre-Operative Preparation		8
Peri-Operative Care: Intra-Operative Procedures		67
Peri-Operative Care: Post-Operative Procedures		8
Ancillary Duties: Administrative & Personnel		6
Ancillary Duties: Equipment Operation		15
Advanced Science: Advanced Anatomy & Physiology		36
Advanced Science: Advanced Principles of Microbiology		5
Advanced Science: Surgical Pharmacology & Anesthesia		5

2024 Certified Surgical First Assistant (CSFA) Examination Application



Please read entire application and complete fully. If you have any questions, please contact the NBSTSA Certification Department directly at (800) 707-0057 or email questions to mail@nbstsa.org.

Current Last Name First (**Legal name**) Middle

Other Names You Have Used (e.g., maiden name, etc. Please include copy of legal documentation to change name on file.)

Mailing Address (include apartment # if applicable) City State Zip Code

Home Phone Number Work Phone Number Cell Number

Date of Birth Certification Number

Primary Email

Are you a member of AST? No Yes, member number _____

ELIGIBILITY:

Eligibility Option:

Graduate of a CAAHEP accredited Surgical First Assistant program.
✓ Copy of a diploma, transcript or notarized and signed letter from Program Director or registrar stating date of graduation from the surgical first assistant program and the type of degree received. Must be on official school letterhead.

Retake

Please note, original documents such as social security cards and marriage certificates should not be provided. Copies only.

EDUCATION:

Name of School City, State

Pre-grad application (not testing on campus) Yes No

If testing with class on campus (WBT), list school code and test date: _____

SPECIAL ACCOMMODATIONS:

Are you requesting special testing accommodations due to physical impairment(s) or disability? Yes No

If you are requesting special accommodations, you must include a comprehensive report from a qualified physician describing your disability and/or any other documentation which will assist in an informed decision by the NBSTSA regarding your request for accommodations as described in the Guidelines For Documenting a Request for Test Accommodations.

Overseas testing: Are you requesting overseas testing? Yes No (If yes, please email NBSTSA at mail@nbstsa.org)

FEES:

- AST Member \$190
- All others \$290

Total enclosed: \$190 (AST member) \$290 (Non-member)

Forms of Payment:

Money Order Personal Check Institutional Check Visa MasterCard Discover

*Please make checks payable to "NBSTSA".

Billing Address (only if different from applicant info) City State Zip Code

Card Number Security Code Expiration Date \$ Amount Charged

Signature (authorizes payment) Name (as it appears on card)

IMPORTANT: All applicants must sign the following statement:

I do hereby acknowledge that all the information submitted in connection with my application to the certification program is true and correct to the best of my knowledge. I understand that falsified information on this application is grounds for denial of acceptance for examination or certification revocation, and may bar me from future certifications or renewals. I further acknowledge and agree that the NBSTSA may release my examination scores and credentialed status to agencies such as those which regulate the practice of surgical technology, current/potential employers, surgical education programs attended, NBSTSA recognized programmatic accreditation agencies and NBSTSA contracted vendors involved in the process of certification. I understand that NBSTSA CST/CSFA certificants may also have their names and credentials published in various NBSTSA publications from time to time such as when the NBSTSA is congratulating new certificants, etc.

Printed Name of Applicant Signature of Applicant Date

IMPORTANT: All pre-graduate examination applicants must sign the following statement:

I do hereby acknowledge as a pre-graduate examination candidate that proof of graduation MUST be submitted to the NBSTSA within 60 days of my actual examination date in order for my examination results to be released. Failure to produce graduation proof will result in invalidation of examination results and forfeiture of all examination fees.

Printed Name of Applicant Signature of Applicant Date

Would you like to receive other communication from the NBSTSA? Yes No
(i.e. Certification renewal reminders, newsletter, etc.)

Once approved, NBSTSA provides candidates with an Authorization To Test email (ATT) to schedule examination.

Retesting: Surgical First Assistant candidates who are unsuccessful in passing the examination may resubmit an application immediately; however, they are limited to taking three (3) examinations in one (1) calendar year. Candidates are required to resubmit an application and payment each time.

Refund: The following fees are NON-REFUNDABLE: application processing fees (\$60.00), examination fee after the approval of the application and issuance of an Authorization To Test email (ATT).

RETURN THIS FORM, ALL NECESSARY DOCUMENTATION AND ENTIRE FEE TO:

The National Board of Surgical Technology and Surgical Assisting
 3 West Dry Creek Circle
 Littleton, CO 80120

All NBSTSA forms are available and can be submitted online at www.nbstsa.org.

2024 Certified Surgical First Assistant (CSFA) Renewal Application



Please read entire application and complete fully. If you have any questions, please contact the NBSTSA Certification Department directly at (800) 707-0057 or email questions to mail@nbstsa.org.

Current Last Name	First (Legal name)	Middle
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Other Names You Have Used (e.g., maiden name, etc. Please include copy of legal documentation to change name on file.)

Mailing Address (include apartment # if applicable)	City	State	Zip Code
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Home Phone Number	Work Phone Number	Cell Number
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Date of Birth	Certification Number
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Primary Email

Are you a member of AST? No Yes, member number _____

PLEASE CHECK THE BOX THAT APPLIES TO YOU:

- Recertify by credits.** All continuing education credits must be earned prior to expiration date (for number of credits needed go to nbstsa.org). Credits must be submitted to AST for processing. Call (800) 637-7433 or visit ast.org for more information.
- Recertify by examination.** I choose to demonstrate competency through examination.

SPECIAL ACCOMMODATIONS:

Are you requesting special testing accommodations due to physical impairment(s) or disability? Yes No

If you are requesting special accommodations, you must include a comprehensive report from a qualified physician describing your disability and/or any other documentation which will assist in an informed decision by the NBSTSA regarding your request for accommodations as described in the Guidelines For Documenting a Request for Test Accommodations.

FEES:

- Renewal fee \$25
- Renewal by examination: \$299 (AST member) or \$399 (non member)

FEES:

If you are between 1 and 90 days beyond the expiration of your certification, you can renew IF you have earned all required continuing education credits during your certification cycle. All the credits must have been earned while you were certified and cannot be earned after. If you did not earn the required credits, please apply to take the examination for recertification. There is a \$50 late fee for individuals who file their renewal application between 1 and 90 days after the expiration date, in addition to the \$25 renewal fee, for a total of \$75 due if renewing certification after expiration.

Forms of Payment:

Money Order Personal Check Institutional Check Visa MasterCard Discover

*Please make checks payable to "NBSTSA".

Billing Address (only if different from applicant info) City State Zip Code

Card Number Security Code Expiration Date \$ Amount Charged

Signature (authorizes payment) Name (as it appears on card)

IMPORTANT: All applicants must sign the following statement:

I do hereby acknowledge that all the information submitted in connection with my application to the certification program is true and correct to the best of my knowledge. I understand that falsified information on this application is grounds for denial of acceptance for examination or certification revocation, and may bar me from future certifications or renewals. I further acknowledge and agree that the NBSTSA may release my examination scores and credentialed status to agencies such as those which regulate the practice of surgical technology, current/potential employers, surgical education programs attended, NBSTSA recognized programmatic accreditation agencies and NBSTSA contracted vendors involved in the process of certification. I understand that NBSTSA CST/CSFA certificants may also have their names and credentials published in various NBSTSA publications from time to time such as when the NBSTSA is congratulating new certificants, etc.

Printed Name of Applicant Signature of Applicant Date

Would you like to receive other communication from the NBSTSA? Yes No

(i.e. Certification renewal reminders, newsletter, etc.)

Refund: The following fees are NON-REFUNDABLE: application processing fees (Examinations \$60.00), examination fee after the approval of the application and issuance of an Authorization To Test email (ATT).

RETURN THIS FORM, ALL NECESSARY DOCUMENTATION AND ENTIRE FEE TO:

The National Board of Surgical Technology and Surgical Assisting
 3 West Dry Creek Circle
 Littleton, CO 80120

All NBSTSA forms are available and can be submitted online at www.nbstsa.org.

PREVIOUS ACCOMMODATIONS:

Have you previously received test accommodations? Yes No
If yes, provide name of examination, test date and accommodations received:

Have you previously received educational accommodations? Yes No
If yes, provide name of school, applicable dates and accommodations received:

Have you previously received workplace accommodations? Yes No
If yes, provide name of employer, applicable dates and accommodations received:

REQUESTED ACCOMMODATIONS:

(Select all that apply):

- Extended time
- Reader
- Separate room (if available)
- Other equipment or accommodation, specify: _____

PERSONAL STATEMENT (REQUIRED):

Please describe how your disability impacts your *daily* life. Attach additional pages, if necessary.

IMPORTANT: All applicants must acknowledge the following statement:

By signing below, I attest that I have reviewed the Guidelines for Documenting Examination Accommodations and that the information I have provided in this application is accurate, true and correct to the best of my knowledge. I agree to and authorize the release of this information to the NBSTSA and their contracted consulting firm for use in determining my eligibility for the requested testing accommodations.

I understand the NBSTSA reserves the right to verify any and all information contained in my application. Therefore, I understand and agree that my failure to provide accurate, true and correct information shall constitute grounds for rejection of my request for testing accommodations.

Signature of Candidate

Date

The NBSTSA will notify you of a decision in writing. For confidentiality purposes, information regarding testing accommodation decisions will not be discussed by telephone or via email.

Guidelines for Documenting a Request for Test Accommodations

The following guidelines will assist applicants in documenting a need for accommodations based on an impairment that substantially limits one or more major life activities.

GENERAL GUIDELINES

To request accommodations, please submit the following:

- A completed request for special exam.
- A detailed, comprehensive written report from a qualified health professional describing your disability and its severity and explaining the need for the requested accommodation(s).

THE REPORT SHOULD:

State a specific diagnosis of the disability using professionally recognized nomenclature, e.g., American Psychiatric Association Diagnostic and Statistical Manual (DSM-IV-R) or International Classification of Diseases (ICD-10).

Be current. Because the provision of accommodations is based on the current impact of the disability on the testing activity, **the evaluation should have been conducted no more than three years prior to the request for accommodations.**

Clearly describe the specific diagnostic criteria and name the diagnostic tests used, including date(s) of evaluation; list specific test results; and provide a detailed interpretation of the test results in support of the diagnosis. Be sure to include all relevant educational, developmental and medical history.

Give a detailed description of the applicant's current functional limitations due to the diagnosed disability and an explanation of how the diagnostic test results relate to the identified functional limitations. Fully describe how the disability impairs current physical, perceptual and/or cognitive functioning.

Recommend specific accommodations including assistive devices. Provide a detailed explanation of why these accommodations or devices are needed and how they will reduce the impact of the identified functional limitations on the specific examination for which they are requested.

Report any accommodations the applicant currently uses in daily functioning, especially professional and work-related activities and any past accommodations the applicant received on examinations because of the disability.

Provide contact information and credentials of the professional evaluator that qualify him/her to make the diagnosis, including information about professional license or certification and specialization in the area of the diagnosis. The dated report must be written on the professional evaluator's letterhead and clearly indicate the name, address, telephone number and qualifications of the professional. The evaluator should present evidence of comprehensive training and direct experience in the diagnosis and treatment of adults in the specific area of disability.

The documentation should include any record of prior accommodation or auxiliary aids, including any information about specific conditions under which the accommodations were used and whether or not they were effective. However, a prior history of accommodation, without demonstration of a current need, does not in and of itself warrant the provision of a similar accommodation.

If no prior accommodations have been provided, the qualified professional expert should include a detailed explanation as to why no accommodations were given in the past and why accommodations are needed now.

ADDITIONAL INFORMATION FOR LEARNING AND COGNITIVE DISORDERS

The evaluation must be conducted by a qualified professional with comprehensive training in the field of learning disorders.

Testing conducted as part of the comprehensive psychoeducational assessment should be no more than three (3) years old. (See General Guidelines). A developmental disorder such as a learning disability originates in childhood and therefore, school history and other information which demonstrate a history of impaired functioning should be included. Wherever possible, actual school records, psychological reports and other objective historical information should be provided.

DOCUMENTATION MUST BE COMPREHENSIVE

The report should include a comprehensive history-taking with relevant background information and appropriate test data to support the diagnosis, including the following:

- A description of the presenting problem(s);
- A developmental history;
- Relevant academic history including results of prior standardized testing, school reports and notable trends in academic performance;
- Relevant family history, including primary language of the home and current level of fluency in English;
- Relevant medical and employment history; a differential diagnosis, exploring and ruling out possible alternative or co-existing mood, behavioral, neurological and/or personality disorders which may impact the individual's learning;
- A comprehensive battery of age-appropriate, normed diagnostic tests;
- A diagnosis based on a convergence of all test data, history and level of current functioning. It is not acceptable to base a diagnosis on only one or two subtests;
- Objective evidence of a substantial limitation in learning.

Problems such as test anxiety, English as a second language (in and of itself), slow reading without an identified underlying cognitive deficit or failure to achieve a desired outcome on a test are not learning disabilities and are not covered under the Americans with Disabilities Act.

ADDITIONAL INFORMATION FOR ATTENTION DEFICIT/HYPERACTIVITY DISORDER

The evaluation must consist of more than patient observations and self-report. Information from third party sources is critical in the diagnosis of adult ADHD. The evaluation and report should include, but not necessarily be limited to, the following:

- History of presenting attention symptoms, including evidence of ongoing impulsive/hyperactive or inattentive behavior that has significantly impaired functioning over time;
- Developmental history;

- Family history for presence of ADHD and other educational, learning, physical or psychological difficulties deemed relevant by the examiner;
- Relevant medical and medication history, including the absence of a medical basis for the symptoms being evaluated;
- Relevant psychosocial history and any relevant interventions;
- A thorough academic history of elementary, secondary and postsecondary education;
- Evidence of impairment in several life settings (home, school, work, etc.) and evidence that the disorder significantly restricts one or more major life activities;
- Relevant employment history;
- Description of current functional limitations that are presumably a direct result of the described problems with attention;
- A discussion of the differential diagnosis, including alternative or co-existing mood, behavioral, neurological and/or personality disorders that may confound the diagnosis of ADHD.

Test scores or subtest scores from a neuropsychological or psychoeducational assessment may be helpful in determining the individual's pattern of strengths or weaknesses and in determining whether there are patterns supportive of attention problems. However, test scores alone cannot be used as the sole basis for the diagnostic decision.

The report must include a specific diagnosis of ADHD based on the DSM-IV-R diagnostic criteria. Individuals who report problems with organization, test anxiety, memory and concentration only on a situational basis do not fit the diagnostic criteria for ADHD. Given that many individuals benefit from prescribed medications and therapies, a positive response to medication by itself is not supportive of a diagnosis, nor does the use of medication in and of itself either support or negate the need for accommodation.

Because of the challenge of distinguishing ADHD from normal developmental patterns and behaviors of adults, including procrastination, disorganization, distractibility, restlessness, boredom, academic underachievement or test failure, low self-esteem and chronic tardiness or in attendance, a multifaceted evaluation must address the intensity and frequency of the symptoms and whether these behaviors constitute impairment in a major life activity.



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