OPHTHALMIC PHOTOGRAPHERS' SOCIETY
EYE IMAGING EXPERTS

BOARD OF CERTIFICATION

OCT-C

Optical Coherence Tomographer-Certified

Program Guide

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If the date on this Program Guide is more than six months old, please check the OPS website (opsweb.org) to make sure you have the most current version.

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OPHTHALMIC PHOTOGRAPHERS' SOCIETY
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Introduction

Welcome! Thank you for your interest in the **Optical Coherence Tomographer-Certified (OCT-C)** Program. This Program Guide details the process and requirements to obtain OCT-C certification. It contains the program application, details the eligibility, portfolio requirements, and includes the examination content outline. The OCT-C Program is administered by the Ophthalmic Photographers' Society Board of Certification (OPS BOC). http://www.opsweb.org/page/Certification

The Ophthalmic Photographers' Society (OPS) is a not-for-profit organization dedicated to a highly specialized form of medical photography. Main objectives of the OPS are to provide primary and continuing education in the field of ophthalmic imaging, to set and maintain standards for the profession through certification programs, and to promote scientific advancement in the technology.

The OPS serves as a professional organization for its members, sponsoring educational programs and promoting the exchange of information in the field of ophthalmic imaging internationally.

The OPS holds various programs including the Annual Educational Program (AP) concurrently with the annual program of the American Academy of Ophthalmology (AAO) and International Conference on Ophthalmic Photography (ICOP), among others. The OPS programs include presentations on advancements in scientific photography and instrumentation, as well as comprehensive educational endeavors.

The OPS membership includes, but is not limited to, ophthalmic and medical photographers, ophthalmic technicians, assistants, technologists, veterinarians, industry professionals, ophthalmologists, optometrists, nurses, pathologists, researchers, and engineers. Sustaining members are organizations and individuals actively involved with ophthalmology or ophthalmic photography for commercial or charitable purposes. Anyone involved in ophthalmic photography is encouraged to apply to the OPS Membership Office. (ops@opsweb.org).

The OPS established the BOC in 1979. The BOC serves as the formal body responsible for the certification of retinal angiographers and ophthalmic photographers. The OCT-C, created in July 2007, requires submission of work examples that meet established standards and successful completion of a written examination. Membership in the OPS is strongly encouraged, though it is not a requirement for certification.

Communications

Please direct all communications to:

Mailing Address:	Ophthalmic Photographers' Society 1621 E. Jody Circle Republic, MO 65738
Office Phone:	+1-417-725-0181 +1-800-403-1677
Web Address:	www.opsweb.org
Email Address:	oct.c.chair@gmail.com

Certification Policies

The Ophthalmic Photographers' Society Board of Certification (OPS BOC) is responsible for certification of retinal angiographers and ophthalmic photographers. Certification recognizes individuals who have met the BOC's standards of competence. The BOC is responsible for the administration of the certification examination. Prometric, a professional examination administration contractor, proctors the OCT-C examinations.

Statement of Proprietary Interest

The BOC has no commercial or proprietary interest in any products used or mentioned in the certification program. The use of brand names in this program guide or on any examination is only for illustrative purposes and does not imply BOC endorsement.

OCT-C Designation

The Optical Coherence Tomographer-Certified recognizes individuals who have met the BOC's standards of competence in optical coherence tomography. The BOC's standards are meant to assure a competent, professional optical coherence tomography skill set.

OCT-Cs demonstrate competence by

- Applying the principles of the anatomy of the eye
- Applying the concepts of pathology of the eye to OCT findings
- Managing OCT patients
- Demonstrating an understanding of OCT hardware and software
- Managing OCT data and images
- Analyzing and interpreting OCT images
- Demonstrating patient/operator safety

OCT-C examinations are offered year-round at approved testing centers throughout the United States and internationally. Examinations may be scheduled only after the applicant has fulfilled the certification eligibility requirements set forth in this Program Guide. Once eligible, the date and location of the exam may be chosen by the applicant.

The BOC is the only agency authorized to recognize individuals as Optical Coherence Tomographer-Certified. The BOC developed its program to facilitate voluntary certification of ophthalmic photographers, ophthalmic technicians, and other ophthalmic professionals. Its sole purpose is recognition of attainment of a standard level of knowledge and skill in OCT. Certification does not guarantee recognition by any other individual, group, agency or institution. The liability of the BOC or its representatives is limited strictly to this recognition.

Statement of Nondiscrimination

The BOC shall admit applicants of any age, sex or sexual orientation, race, religion, color, national origin, disability or marital status to all rights, privileges, programs, and examinations generally made available through its association. It shall not discriminate on the basis of age, sex or sexual orientation, race, religion, color, national origin, disability, or marital status in the administration of its certification policies.

Application Process

Complete the following steps in the order listed below to qualify for the OCT-C examination:

1. Submit a completed OCT-C program application
2. Submit a portfolio
3. Submit examination application and employment verification (forms will be provided after the portfolio has been accepted)
4. Pay examination fee
5. Candidate will receive an email from Prometric with instructions to schedule exam
6. Schedule exam within one year of receiving the email

Submit OCT-C Program Application

OCT-C applicants complete a Program Application on the OPS Website at https://www.opsweb.org/page/Portfolio_Submission or request an application from the OPS Membership Office (1-800-403-1677 or OPS@opsweb.org).

By applying for the OCT-C certification, the applicant agrees to the terms set forth in this program guide regarding certification requirements. Applicants attest that all information they submit is true and complete to the best of their knowledge. Any misrepresentation or misconduct in the application or examination process may result in

disqualification or revocation of certification. (See **Appeals and Disciplinary Policy** on pages 17-19.)

Portfolio

The portfolio **MUST BE** submitted to the OPS website.
https://www.opsweb.org/page/portfoliosubmission

To ensure the BOC has adequate time to review a candidate's portfolio, the application and portfolio should be **submitted a minimum of eight (8) weeks in** advance of the desired examination date. Once the portfolio is downloaded the candidate will receive a confirmation email. If the candidate has not received this email within seven (7) days of uploading, please contact the OCT-C Section Chair. Portfolio requirements are detailed in appendices.

Examination Application and Employment Verification Letter

Once the portfolio is approved, the OCT-C Section Chair will email the candidate an Examination Application along with further instructions on how to proceed. The application and Employment Verification Letter (confirming a minimum of one (1) year experience) must be completed and submitted via email to oct@opsweb.org. (See **Requirements for Certification page 6**.)

Examination Fee

The examination fee may be paid online at the OPS store or a check can be mailed to the OPS Office (made payable to OPS/BOC in US dollars). There is a **one year limit** for completion of the examination once a candidate has received their email from Prometric (see **Examination Registration page 13**). The examination fee includes a $50 non-refundable application fee and one administration of the OCT-C examination at a BOC approved testing center.

OCT-C Examination Fees:

OPS member Fee:	$340
Non-OPS Member Fee:	$465 (includes optional 1 year OPS membership)
Retesting Fee:	$225

All fees must be remitted in U.S. dollars. For any issues with payment, contact the OPS Membership Office (+1-800-403-1677).

Certificates

Once the Board of Certification notifies applicants that they have completed all requirements for certification, they may use the title Optical Coherence Tomographer-Certified or OCT-C if the certificant maintains their certification (see **OCT-C Recertification: Requirements page 27**). This designation may be used as part of a signature, and on letterheads and business cards etc. The BOC mails certificates to

successful applicants with their notification. **Applicants are responsible for notifying the BOC of any change of name, email, or mailing address.** This will ensure all confidential correspondence concerning certification and recertification will reach the applicant.

Refunds

Examination fees will be fully refunded (minus the $50 application fee) if an applicant submits notification **at least two (2) weeks** before a scheduled examination. Refunds for cancellations received **less than two (2) weeks** before the scheduled examination are subject to a cancellation fee. Refunds are made payable and issued to the party that originated the application fee payment. No refunds or credits will be issued to those who fail examinations, or to those who do not appear for the examinations or failure to schedule an examination date within a one-year window.

Special Testing Arrangements

The BOC grants reasonable accommodations for candidates with documented disabilities, in compliance with the Americans with Disabilities Act (ADA). If special assistance or arrangements are required, the candidate should contact the Prometric testing center at smt-operationsteam@prometric.com, or call +1-866-773-1114 (US or Canada) or other countries, call +1-727-733-1110.

Privacy/Confidentiality Policy

The BOC abides by the OPS' privacy/confidentiality policy demonstrating its firm commitment to OCT-C candidates and certificant privacy (available at www.opsweb.org > Certification > Forms & Guides). This policy applies to all aspects of the OCT-C credential including the secure handling and storage of application materials, examinations, scores, and candidate and certificant records. BOC staff and volunteers are required to complete a non-disclosure document agreeing to protect the privacy of OCT-C certificants and candidates. It is BOC policy that non-disclosure protected information may NOT be released to or shared with:

1. Any member of the public without an applicable statutory exception or written release from the OCT-C candidate/certificant
2. Any member of the BOC, unless the recipient has a legitimate interest, for the use of that protected information to perform a service or carry out a responsibility within that person's scope of employment or engagement as a BOC representative

The BOC policy states protected information may only be released or shared in accordance with said policy. OPS staff and BOC representatives, with access to protected information,

are expected to safeguard said information from unauthorized disclosure. This includes, as appropriate:

- Computer Systems and Applications Security: Central processing units, peripherals, portable storage devices, operating systems, applications software, and data
- Physical Security: The premises occupied by OPS personnel, representatives or contractors
- Operational Security: Environmental control, power equipment, operational activities related to operations
- Procedural Security: Established and documented security processes for information technology staff, vendors, management, and individual users of protected information
- Network Security: Communications equipment, transmission paths, switches, terminals, and adjacent areas

The OPS and the BOC reserve the right to change this policy at any time by notifying users of the adoption of a new privacy statement.

Records and Data Retention Policy

All applications, correspondence, supporting documentation and materials generated in the testing process will be held for three (3) years. Computer records of applicant demographics and test scores are kept indefinitely.

Requirements for Certification

Examination Eligibility Requirements

Eligibility for the written examination is contingent upon fulfilling these requirements:

1. Submission and acceptance of an approved portfolio (See **Portfolio Requirements page 7**)
2. Letter from employer verifying the applicant's employment history with OCT as part of their job responsibilities for a minimum of one (1) year

This one-year work experience requirement is meant to allow time for an applicant to acquire the practical knowledge and skills necessary to perform OCT. It should include enough patient interaction to allow an applicant to develop the clinical judgment and patient management skills necessary for competent performance as an optical coherence tomographer.

Verification of Eligibility Information

The BOC reserves the right to verify the experience attested to by the applicant, by contacting the employer(s) listed on the application form or requesting written documentation of the submitted information either prior to or after the examination.

Applicants will be declared ineligible for examinations if any eligibility requirements are found to be unsatisfactory.

Award of the OCT-C Certification

The following requirements are necessary to achieve the OCT-C designation by the BOC:

- Completion of all eligibility requirements
- A passing score on the written examination

Portfolio Requirements

The portfolio must be produced entirely by the applicant. Normal eyes can be used when pathology is not specified in the item description. If applicable, the same eye may be imaged for multiple items. The same image cannot be used for two (2) different submissions.

You can find Spectral Domain OCT Portfolio requirements in the OCT-C Program Guide Appendices A or at https://www.opsweb.org/page/octrequirements.

Portfolio Rating Standards

The OCT-C Portfolio Committee uses standards established and approved by the BOC to evaluate OCT-C portfolios. Two (2) members of the OCT-C Portfolio Committee independently evaluate each portfolio, and when required, the Committee Chair arbitrates scores.

OCT-C portfolios are evaluated according to the following standards:

Intent:	Is the required image present?
Protocol:	Does the image show the specified scan and analysis protocol?
Scan Quality:	Are the scan parameters within the acceptable range?
Artifacts:	Is the image free of artifacts?
Labeling:	Is the image de-identified of protected health information and labeled properly?

All criteria for each required image must be met for the portfolio to be found acceptable. Item-specific criteria are identified in the Portfolio Guidelines in the appendices of this guide.

Naming Convention for OCT Image Portfolio Submissions

All submitted reports for the portfolio must have patient information de-identified. Data can be de-identified by using either the image capture software or programs such as Microsoft Paint or Adobe Photoshop. Please use the following naming convention for all patient data.

Last Name: OCT Certification
First Name: Candidate Name (e.g. Jane Tech)
Birth date: 1-1-1950
Patient ID: Your initials (e.g. JT)
Note: If individuals from the same office have the same initials, add a numeral to the end (e.g. JT2)

This patient data has been correctly de-identified	**Thickness Map Single Exam Report** SPECTRALIS® Tracking Laser Tomography HEIDELBERG ENGINEERING Patient: OCT-Certification, Jane Tech Patient ID: JT3 Diagnosis: --- DOB: Jan/1/1950 Exam.: Jun/10/2024 Comment: --- Sex: F OD

Portfolio Assembly

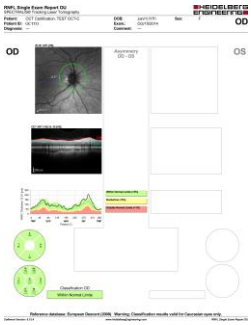
All images must be saved as a report. Reports are required because they include relevant imaging data needed for evaluation. Screen-grabs or non-system reports will not be accepted. See examples below for the correct report types.

Heidelberg Spectralis-OCT:

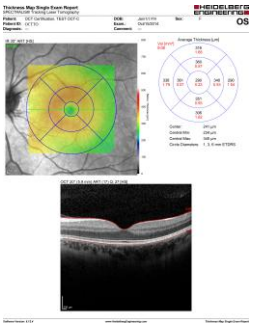
Line Scan



RNFL Map

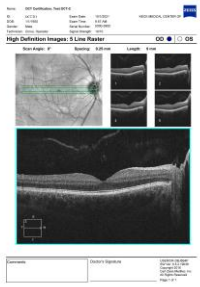


Retina Map

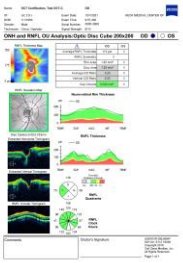


Zeiss Cirrus:

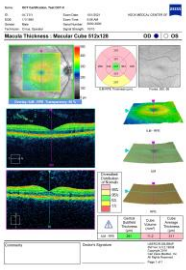
Line Scan



RNFL Map



Retina Map



Acceptable Method of Image Submission

Images must be submitted digitally in either **pdf** or **jpeg** format. All images must be saved in one folder labeled as follows:

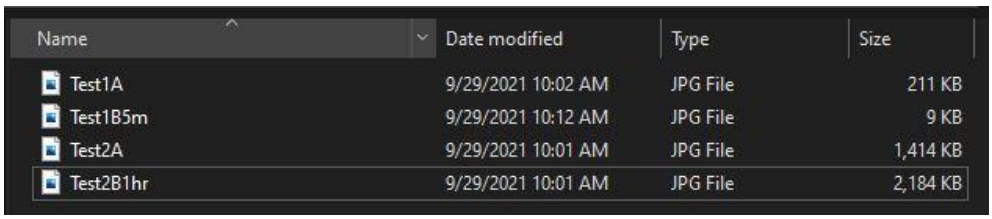
- Your last name OCT-C (e.g. SmithOCT-C)



Naming Your OCT Files

Label all files with your last name as a prefix to the Item #

- For example, the submission set for # 7 should be labeled: "Your last name"7a (e.g. SMITH7a)



The portfolio will be deemed unacceptable if it contains extra examples of the requested images or contains any patient information.

Portfolio Submission

You will need to compress the folder for submission. For most Windows based systems, right click on the folder and select "Send To". Then choose "Compressed zipped folder".



Once you have zipped your folder, navigate to the OPS website to upload the portfolio at: www.opsweb.org > Certification > Portfolio Submission. The OCT-C Portfolio Committee will review the portfolio **within thirty (30) days** and candidates with portfolios meeting the requirements will receive an email-confirming acceptance. Candidates with portfolios not meeting the requirements will receive a critique of the unacceptable segments. The applicant can correct any deficiencies and resubmit the required component(s). The portfolio committee returns the entire portfolio, correct the required components and resubmit the entire portfolio. If you are unable to send your portfolio digitally, please contact the OCT-C Portfolio Committee to see if special arrangements can be made.

The BOC assumes no liability for any materials lost or damaged during file transfer. The BOC recommends that applicants maintain a copy of the portfolio for their personal records.

Portfolio Approved

The OCT-C Portfolio Committee will notify the OCT-C Section Chair of the applicant's examination eligibility. The Section Chair will send the applicant an Examination Application including guidelines on submitting your Employment Verification Letter and exam fees. Upon verification of your paperwork and payment of exam fee, the candidate will receive an e-mail from the Prometric testing center with directions on arranging your OCT-C exam at the date and location of your choice.

The OCT-C Examination

The designation of OCT-C is meant to assure patients, employers, regulators, and the public that the certificant has demonstrated an established level of competency in performing OCT imaging. Certification requires thorough knowledge of the subject matter. The examination is designed to recognize applicants who display a level of knowledge and ability that demonstrates competence as an optical coherence tomographer.

Examination Philosophy

The content validity, relevance, fairness, and accuracy of the OCT-C examination are assured by the BOC working with experts in the field of certification programming. This mandates examination development, administration, scoring, and reporting adhere to international professional standards and guidelines, establishing assessment and certification best practices. The most important of these standards are published by such key organizations as the National Commission for Certifying Agencies (NCCA), ISO/American National Standards Institute (ANSI) 17024 Standards, the American Psychological Association (APA), and the Council on Licensure, Enforcement and Regulation (CLEAR). This body of standards provides a means for ensuring that the assessment and credentialing process is a fair measure of competence and is legally defensible.

The examination content outline is based upon the 2014 Job Analysis Study (also called a Role Delineation) that will be revalidated periodically. The most recent study findings were implemented in the summer of 2014 and utilized a full-scale survey methodology inviting all known OCT professionals to participate. This research was performed under the direction of a panel of Subject Matter Experts (SMEs) representing full diversity in the field, providing a documented link between the content of the examination and practice as an OCT-C.

The passing standard (cut score) for the OCT-C examination was determined using methodologies involving a representative panel of OCT-C SMEs and empirical judgments (Angoff, Design V). New forms and versions of the examination are systematically implemented to protect the integrity and security of the examination program and to conform to testing industry standards. Each new examination form contains a significant percentage of new questions that are unique to the new form. Psychometric procedures are used to score the examinations in compliance with relevant technical guidelines. The OCT-C examination report scores using a scaled score model, where raw scores are placed on a 0-100 scale with 70 reported as the passing score on all examinations. Score scaling, which ensures consistency and fairness, is a common psychometric practice, used on many examinations including the SAT, ACT and OPS CRA examinations.

Ongoing question writing, question review, and examination and question analyses are conducted to ensure that the validity, reliability, and other psychometric characteristics of the examinations conform to standards. New questions written by OCT-C SMEs are reviewed multiple times, verified to an approved reference, and linked to the examination content outline. All questions undergo statistical review to ensure that they operate properly. Professional test development and psychometric staff, contracted by the BOC, oversee all these activities. The BOC is confident in the validity of the exam content, the reliability of the test instruments and the measurement processes employed to analyze, score, and establish reporting scores.

Examination Design, Scoring and Reporting

The OCT-C examination is comprised of 100 multiple-choice questions, administered using computer-based examinations. Candidates are allotted two (2) hours to complete the exam. Each multiple-choice question has four (4) answer choices; only one (1) answer choice is correct. It is a closed-book examination. Candidates will be provided with scratch paper and a pencil; both will be collected at the completion of the examination. Candidates are encouraged to read the questions carefully, choosing the single best response, first answering the questions that they are sure of, returning to the more difficult questions as time allows. Credit is given only for questions that have responses. Questions left blank will be scored as incorrect. Therefore, there is no penalty for guessing.

At the end of the testing session, a computer-generated score report will be issued. This score is provisional, pending statistical verification that will take place within 72 hours. If candidates do not hear from the BOC or its representatives within that time period, they may assume the score stands as reported. Candidates passing the examination will not receive a scaled score. Failing candidates will receive a scaled score, along with a diagnostic report indicating examination content areas of weakness.

The examination score is based upon the total number of correct responses that represent competency. Scores are unrelated to the performance of other candidates taking the examination.

At times during the examination development cycle, candidate scores may be withheld pending further psychometric analysis. Withheld scores will be released within approximately sixty (60) days of the examination administration date.

Examination Procedures

The OCT-C examination is available at BOC approved test centers through Prometric to be taken at a location and time of the candidate's choosing. Details and access to a sample online test to familiarize yourself with the process are made available when applying for the exam. Information about Prometric locations is available online at: www.smttest.com/sitesavail/Default.aspx

Preparing For the Examination

The OCT-C examination tests the applicant's knowledge of optical coherence tomography imaging. The **Examination Content page 20,** identifies the areas in which to concentrate for the examination. The BOC provides a suggested reference list as a resource that may be useful to supplement the training and experience related to competent performance as an OCT-C.

A list of **Suggested References** can be found on **page 26**. The BOC does not endorse any particular text or author. This list is not intended to be inclusive, but reflects references used to support the test development process. Use of the suggested references during study for the OCT-C exam does not guarantee successful performance on the examination.

Additional Opportunities for Study

The OPS offers related courses, workshops, and publications independent of the BOC. The BOC does not provide training or educational materials. OCT-C candidates are not required to purchase training or education materials from the OPS in order to pass the examination. Attendance at OPS courses and workshops are not a prerequisite to sitting for the OCT-C examination. The courses are not designed to serve as examination preparation classes, nor do they serve any ancillary examination-related purposes. The course curriculums are designed specifically to review broad concepts and offer high-level overviews of OPS-relevant topics and sub-topics. More information about educational opportunities may be found at the OPS Web Site at www.opsweb.org.

Advisory Program

The BOC developed an advisor program to provide guidance to prospective OCT-C applicants. Advisors are OCT-Cs who use the latest ***OCT-C Program Guide*** for reference, and must work within parameters established by the BOC. The advisor can provide the applicant with advice and direction. Interested applicants are encouraged to contact a member of the Advisory Program Committee.
www.opsweb.org/page/examprephelp
E-mail: advisor@opsweb.org

OPS Lending Library

The OPS Board of Directors (BOD) developed the lending library to provide access to standard texts in Ophthalmology and Ophthalmic Imaging that may be of assistance in preparation for the OCT-C examination. The Advisory Committee member can assist you in selecting books that address exam content areas you feel you would like to study further. Books are lent from the OPS **Membership Office (1-800-403-1677)**
ops@opsweb.org

Examination Registration

Once the OCT-C portfolio and examination application have been approved, candidates will receive official notification to register for the examination and instructions on how to proceed. The examination is offered via computer administration at OPS/BOC approved testing centers.

The OCT-C Examination is offered at over 250 test sites in the U.S. and Puerto Rico, U.S. Territories, Canada and various sites outside of North America. Most test sites are open from Monday-Saturday from 9:00 AM to 9:00 PM, and Sundays from 1:00 PM to 6:00 PM, excluding holidays. These sites are operated by the OCT-C administration contractor, Prometric. Information concerning testing center locations and hours of operation may be found at www.isoqualitytesting.com, by clicking the Take a Test tab and then the Locate a Testing Center hyperlink.

Note: candidates **may not register** for a testing site until registration information is provided by the OCT-C Certification Board upon approval of the application.

Once approved to sit for the OCT-C examination, candidates will receive correspondence directing them to:

1. Navigate to the testing contractor examination registration page: www.IQTTesting.com
2. Use the option "Examination Registration" and select the organization: OPS
3. Select the exam: OCT-C
4. Enter the provided Username and Password to login:

- **Username:** (Your e-mail address)
- **Password:** Unique OCT-C applicant number provided by Prometric correspondence

After logging in, please follow the on-screen instructions to schedule an appointment. For assistance call toll free in USA and Canada 866.773.1114, or other countries +1.727.733.1110.

***Note: candidates MUST test within 12 months of receipt of application approval.**

Rescheduling an Examination Registration

Examination fees will be fully refunded (minus the $50 application fee) if an applicant submits notification **at least two (2) weeks** before a scheduled examination. Refunds for cancellations received **fewer than (2) two weeks** before the scheduled examination are subject to a cancellation fee. Refunds are made payable and mailed to the party that originated the payment. No refunds or credits will be issued to those who fail examinations or to those who do not appear for the examinations.

Failure to appear at any scheduled examination site without contacting Prometric or to reschedule an examination date within a one-year window will cause the forfeiture of all application fees. It is the candidate's responsibility to contact Prometric to reschedule a test. Candidates may reapply for the OCT-C Program by paying the full application fee.

Examination Administration Rules and Regulations

The Examination Administrator or proctor is the BOC's designated agent for maintaining secure and valid examination administration. Any individual found by the Board or its agent engaged in conduct that compromises or attempts to compromise the integrity of the examination process will be subject to disciplinary action as sanctioned by the BOC, The Code of Ethics, and the BOC policies and procedures. Examinations are administered according to a strict protocol to ensure the examination security and to protect the right of each candidate to a standardized testing experience. In addition to the attestation on the OCT-C Application, as a prerequisite to distribution of examination materials, candidates are required to sign a Security Affidavit agreeing to abide by all rules and regulations, including the following:

- During the registration procedures at the test site, candidates must sign the test roster and provide one form of valid government-issued photo identification, such as a driver's license or passport.
- No books, papers, texts, references, or personal calculators are allowed in the examination room. Scratch paper and a pencil will be provided and then collected by the test proctor after testing. No electronic devices of any kind are permitted in

the testing room (e.g. cell phones, smart watches). If any are found, the candidate will be disqualified.

- If possible, personal belongings should not be brought to the testing site. If they are, they will be placed in a secure location and will be unavailable to the candidate during the examination.
- No food or drink is allowed in the examination site. Candidates with a specific medical condition (e.g., hypoglycemia, pregnancy, diabetes) requiring the consumption of water or food during the examination period must submit a written request to Prometric for special accommodations prior to the examination.
- Visitors are not permitted in the examination room.
- At no time during the examination may candidates give or receive help to one another or communicate in any way. Examination proctors have the authority to remove a candidate suspected of cheating from the examination room, at which time scores will be cancelled and disciplinary action will be taken.
- Candidates are expected to follow all instructions from examination proctors, printed in test booklets and answer sheets, and/or displayed in the computer-testing program. Candidates will be provided with the opportunity to ask questions prior to beginning the examination.

The computer-delivered examinations include a detailed five (5) minute tutorial program designed to give candidates confidence in the use of the program, as well as familiarity with the system prior to beginning the examination. The tutorial questions are for demonstration purposes only and do not impact examination scores. Candidates are encouraged to take the time to complete the tutorial as it explains features of the computerized testing system. The candidate's name and the name of the examination will be shown at the upper left corner of the screen. If either of these is incorrect, candidates are asked to inform the proctor. A navigation grid is posted on the upper right of the screen, depicting the number of questions on the examination, and the status of those questions (answered, bookmarked for review, or skipped). A digital clock is also posted, indicating a countdown of available time. Registered candidates may take a sample test (content is not OCT-related) before going to the test site by accessing the testing contractor's website using the following URL link: https://www.iqttesting.com/Default.aspx?Function=SampleExam&Exam=8

Candidates may leave the testing room only after receiving express permission from the proctor. Candidates must sign out and sign in from the room and must surrender all testing materials when they exit. Exit from the testing room is permitted for washroom and drinking fountain visits only. Candidates may not access cell phones or leave the building during breaks. Test timing is not paused for these breaks.

Disqualifying behaviors include but not limited to:

- Creating a disturbance
- Aiding or asking for aid from another candidate
- Any attempt to remove copy, buy, sell, or reproduce testing materials
- Unauthorized possession of test materials

- Impersonation of another candidate
- Use of contraband materials or equipment in the testing site
- Any falsification or misrepresentation of information provided during the OCT-C application process

Candidate Comments

During the examination candidates can post comments simply by clicking on the icon entitled Comment on this Question. Once the examination is completed, candidates may provide additional feedback and comments on the examination exit survey. Examination proctors may not discuss or comment on the examination contents. All comments and questions are reviewed and considered by the BOC. However, security procedures preclude discussion with candidates concerning individual test questions or comments. Candidates should not expect a response to a comment unless it relates to a problem with examination administration. Candidate comments or lack thereof may be taken into consideration as evidence during the appeals process (See **Appeals page 17**).

Examination Scoring and Reporting

The BOC works with its testing consultant and contractor in the development, administration, scoring and reporting of the OCT-C examination, and facilitates research studies with a committee of OCT-Cs to establish passing scores for each examination. Using Modified Angoff V standard-setting procedures, the OCT-Cs are asked to review every question on the examination and provide empirical judgments of the likelihood of competent OCT-Cs answering the question correctly. Through this process, a raw score representing competency is established. The raw passing score is translated onto a scaled reporting score.

- Candidates who pass the examination receive notice of successful performance. The OCT-C examination is a minimum competency examination and is not intended to distinguish scores above the passing point. Numeric scores are not reported above the passing point.
- Failing candidates receive a numeric scaled score and a report indicating content areas of weakness. The report is designed to provide a tool for study and preparation for retaking the examination.
- Examination reports will be provided only to the candidate, and will NOT be provided over the phone, fax, or internet.

Award of Certification

Once the BOC notifies applicants that they have completed all requirements for certification, they may use the title Optical Coherence Tomographer-Certified (OCT-C) if the certificant

maintains their certification (**see OCT-C Recertification: Requirements page 27**). This designation may be used as part of a signature, and on letterheads and business cards, etc. The BOC mails official certificates to successful applicants.

Retesting

Candidates who did not pass the exam are allowed to reapply with payment of a $225 re-examination fee. The first retest may take place after payment is received and processed. Candidates may retest four times within twelve (12) months. A six (6) month waiting period is required after the fourth attempt.

Appeals

Candidates have the right to appeal examination results according to the following specified criteria.

Section 1: Grounds for Appeal

Candidates may appeal examination results in extraordinary circumstances that arise coincidentally with the examination administration.

If written documentation of extraordinary circumstances is not received by the BOC within seventy-two (72) hours of an examination, a candidate will forfeit the right to appeal.

Section 2: Methods of Appeal

Candidates will:

- Submit appeal in writing
- Detail the specifics of the appeal and all particulars necessary for adjudication
- Include a non-refundable fee of $50

Section 3: Appeal Procedures

BOC Review and Action:

a) An appeal will be submitted to the BOC within fourteen (14) days of the receipt of examination scores
b) Two BOC representatives will determine the validity of the appeal
c) The BOC will review the following:
    i. Appellant's statement of appeal
    ii. Statement from a Prometric representative or psychometric professional staff member concerning the exam process relative to the appeal

iii. Examiner reports and comments submitted by the appellant at the time of the examination

a) BOC representative will notify the appellant within thirty (30) days of receipt of the appeal regarding status of the appeal

All decisions of the BOC are final. Any charge or complaint will be investigated, reviewed and reported to all parties concerned.

CONTACTS:

CHAIR, OCT-C SECTION AND PORTFOLIO COMMITTEE
E-mail: oct.c.chair@gmail.com

CHAIR, OCT RECERTIFICATION SECTION
E-mail: octrecert@opsweb.org

CHAIR, BOARD OF CERTIFICATION
E-mail: BOC@opsweb.org

EXECUTIVE DIRECTOR, OPS MEMBERSHIP OFFICE
Barbara S. McCalley
1621 E. Jody Circle Republic, MO 65738 Phone: 417-725-0181 or 800-403-1677
E-mail: ops@opsweb.org
http://www.opsweb.org

Revocation

Fraud or misrepresentation on the application, portfolio, or in the examination can result in denial or revocation of Certification. The BOC reserves the right to void examination results, bar participation in the certification program and revoke certification or other sanctions in accordance with the Disciplinary Policy. The BOC will consider such actions if members have reason to question the validity of an applicant's examination results, suspects misconduct at a test center or suspects an applicant has reported fraudulent information. Denial or revocation of certification may be appealed in writing to the Chair of the BOC.

Disciplinary Policy

The BOC may impose sanctions against applicants or individuals already awarded certification for failure to meet BOC rules and standards of initial certification or recertification. The OCT-C program is a voluntary process, not required by law for employment in the field. Monitoring and evaluating actual job performance is beyond the scope of the BOC.

Grounds for Action

The Board of Certification reserves the right to deny certification, void examination results, bar participation in the certification program or to revoke certification. The following are grounds for action:

- Fraud or misrepresentation on any certification application, document, portfolio, or examination
- Unauthorized possession, distribution or disclosure of examination materials or content
- Misrepresentation of certification or certification status
- Failure to cooperate reasonably with any BOC investigation of a disciplinary matter

Violations of standards of conduct or examination procedures may result in denial or suspension of eligibility. Appeals may be submitted to the BOC.

Examination Content

As described, the examination content outline is based upon Job Analysis research of the role of the OCT imager. The examination construction is based upon the seven (7) main content areas as outlined below:

I. Applies the Principles of the Anatomy of the Eye (15%)

- A. Demonstrates an understanding of anterior and posterior segment structures
- B. Demonstrates an understanding of the layers of the retina
- C. Demonstrates an understanding of optic nerve anatomy
- D. Demonstrates an understanding of anatomical landmarks and terminology

II. Applies the Concepts of Pathology of the Eye to OCT findings (25%)

A. Recognize and identify the ocular manifestations of:

1. retinal diseases
2. optic nerve disorders
3. anterior segment disorders
4. systemic diseases

B. Recognize and identify the clinical posterior segment OCT findings of:

1. diabetic retinopathy/macular edema
2. macular degeneration/choroidal neovascular membrane
3. central serous retinopathy/subretinal fluid
4. cystoid macular edema/diffuse macular edema
5. retinal holes: pseudo/lamellar/full thickness
6. glaucoma
7. papilledema/optic pit
8. epiretinal membrane
9. vitreomacular traction
10. posterior vitreous detachment/Weiss ring
11. pigment epithelial detachment
12. retinal detachment/retinoschisis
13. drusen/ hard and soft exudates

14. drusen, ONH
15. pathologic myopia
16. retinal nerve fiber layer defects
17. venous/arterial occlusions
18. tumors/nevi
19. asteroid hyalosis/vitreous hemorrhage
20. retinal scarring
21. cotton wool spots

III. Patient Management (5%)

A. Informs patient of procedures to be performed
B. Answers patient questions concerning the procedure
C. Establishes fixation
D. Elicits cooperation from uncooperative or physically disabled patients
E. Assesses pupil size/dilation
F. Establishes/reviews patient records including:
    1. medical/surgical history
    2. ocular history
    3. photographic history

IV. OCT Hardware and Software (28%)

A. Applies the basic concepts of OCT equipment technology as it relates to:
    1. time of flight delay
    2. interferometry
    3. spectrometer
    4. Fourier transform
    5. sampling arm/reference arm
    6. reference mirror
B. Understands the function and components of the OCT machine including:
    1. wavelength of light
    2. limitations of machine

3. resolution
4. algorithm differences across instruments

C. Performs routine maintenance and equipment troubleshooting including:
    1. cleaning equipment
    2. software maintenance

D. Understands and applies scanning protocols related to time domain and spectral domain devices:
    1. qualitative/quantitative retina including:
        a) high resolution line scan
        b) raster line scan
        c) radial lines thickness/volume map
        d) cube thickness/volume map
        e) repeat/follow up
        f) custom scan
    2. qualitative/quantitative optic nerve/glaucoma including:
        a) high resolution line scan
        b) raster line scan
        c) RNFL
        d) optic nerve head/disc
        e) repeat/follow up
        f) custom scan

E. Understands the function and properties of the OCT equipment including the use of the following controls including:
    1. chin/forehead rest
    2. table height
    3. internal fixation device
    4. external fixation device
    5. focus knob
    6. image averaging/sampling

7. image brightness
8. image contrast
9. OCT image noise
10. line length
11. line angle
12. reference Image (LSO/CLSO)

F. Understands the function and properties of the OCT equipment including the use of the following image placement in the acquisition window as it relates to:
    1. optimal placement
    2. enhanced depth imaging (EDI)

G. Understands the function and properties of the OCT equipment including the use of the following scan pattern placement including:
    1. peripheral scanning
    2. free scanning/dynamic scanning
    3. using anatomical landmarks

H. Uses OCT hardware and software by understanding the function and properties of the OCT equipment including:
    1. positioning the optical head/patient module
    2. enhance/polarization – auto
    3. enhance/polarization - manual
    4. resolution

V. Data and Image Management (3%)

A. Storage utilization

B. Organizes archival/retrieval system

C. Organizes backup/retrieval/disaster recovery systems

D. Coordinates network file transfers for archiving/patient database systems

E. Exports images and data to:
    1. D /DVD-Ram
    2. external USB devices

3. external users (off device, image sharing/transfer)

I. Networks the OCT to the server

VI. Analysis/Interpretation of OCT (20%)

A. Performs analysis/interpretation of retinal images including:

1. false color scale/pseudo color/gray scale
2. macular center thickness measurement
3. total macular volume
4. retinal map
5. measurement tools
6. shadowing
7. analysis artifacts/plotting errors/failures
8. signal strength
9. +/- center deviation
10. signal-to-noise ratio

B. Performs analysis of optic nerve/glaucoma images including:

1. false color scale/pseudo color/gray scale
2. disc reference points
3. cup to disc ratio
4. RNFL analysis
5. analysis artifacts/plotting errors/failures
6. asymmetry (i.e. posterior pole thickness)

C. Performs Analysis of Anterior Segment OCT images including:

1. Pachymetry
2. analysis artifacts/plotting errors/failures
3. measurement tools
4. anterior chamber angle assessment

D. Scanning artifacts in OCT imaging relating to:

1. movement

2. inversion
3. sampling errors
4. vibration
5. patient tear film
6. media opacities/shadowing
7. dirty lens

VII. Patient/Operator Safety (4%)

A. Adheres to Universal Precautions as defined by the Centers for Disease Control and Prevention (CDC)
B. Observes precautions set forth by equipment manufacturers
C. Observes Occupational Safety and Health Administration (OSHA) and The National Institute for Occupational Safety and Health (NIOSH) regulations relating to OCT
D. Understands HIPAA confidentially and privacy regulations relating to OCT

Suggested References:

Below is a list of study resources compiled by OCT-C examiners and candidates who have taken the examination. Many of the texts and references cover similar material, so it is not necessary to review them all. A candidate can choose from these or other appropriate references based on availability and individual need. Some references may be available in the OPS Lending Library.

OPS Store:

OCT-C Study Flashcards

Recommended Resources:

Atlas of Retinal OCT: Optical Coherence Tomography Goldman D, Waheed NK, Duker JS, [1st Edition 2017] Elsevier; ISBN-13: 978-0323461214

Everyday OCT: A Handbook for Clinicians and Technicians Schuman JS, Puliafito CA, Fujimoto JG, Duker JS, [2nd Edition 2017] Slack Incorporated; ISBN-13: 978-1630911720

OCT and OCTA in Retinal Disorders Ehlers JP, [1st Edition 2020] LWW; ISBN-13: 978-1975144227

Optical Coherence Tomography: A Clinical Atlas of Retinal Images Landry DA, [1st Edition 2011] Byson Taylor Publishing; ISBN-13: 978-0984193448

Supplemental Resources:

Atlas of Optical Coherence Tomography of Macular Diseases Gupta V, Gupta A, Dogra MR, [1st Edition 2004] CRC Press; ISBN-13: 978-8184488142

Clinical Retina Quillen DA, Blodi BA, [1st Edition 2002] Amer Medical Assn; ISBN-13: 978-1579472849

Guide to Interpreting Spectral Domain Optical Coherence Tomography Lumbruso B, Rispoli M, [2nd Edition 2011] Jaypee Brothers Medical Pub; ISBN-13: 978-9350253847

Guide to Optical Coherence Tomography Interpretation Brancato R, Lumbroso B, [2005] INC Innovation New Communication; ISBN-13: 978-8886193412

Handbook of Optical Coherence Tomography Bouma B, [1st Edition 2001] CRC Press; ISBN-13: 978-0824705589

Optical Coherence Tomography in Age-Related Macular Degeneration Coscas G, Coscas F, Vismara S, Zourdani A, Li Calzi, CL, [1st Edition 2009] Springer Verlag; ISBN-13: 978-3642014680

Optical Coherence Tomography of Ocular Disease Schuman JS, Fujimoto JG, Duker J, Ishikawa H, [4th Edition 2021] CRC Press; ISBN-13: 978-1630917081

Ophthalmology: Principles and Concepts Newell FW, [8th Edition 1996] Mosby; ISBN-13: 978-0815170938

Online Resources:

Anterior Segment Optical Coherence Tomography (AS- OCT) Moyer, S, http://www.opsweb.org/?page=ASOCT

Optical Coherence Tomography Strong, J, http://www.opsweb.org/?page=RetinalOCT

****The accuracy of the source information is the responsibility of the authors****

Additional Opportunities for Study

OPS offers OCT related courses, workshops and publications independent of the BOC. The BOC does not provide training or educational materials. It is important to note that OCT-C candidates are not required to purchase training or education materials from the OPS in order to pass the examination. Attendance at OPS courses and workshops are not prerequisites for the OCT-C examination. The courses are not designed to serve as examination preparation classes, nor do they serve any ancillary examination-related purposes. The course curriculum is designed specifically to review broad concepts and offer high-level overviews of OPS-relevant topics and sub-topics. More information about educational opportunities may be found at the OPS Web Site at https://www.opsweb.org.

OCT-C Recertification: Requirements

OCT-C recertification is required in three (3) year intervals following initial certification. Certificants may achieve recertification by accrual of continuing education credits or retesting. It is the responsibility of the certificant to provide proof of compliance with the recertification requirements prior to the end of the third year. The three (3) year recertification cycle begins on January 1st of the year after certification is earned. Only education credits earned within the three (3) year interval will be accepted. Failure to recertify will result in the revocation of OCT-C certification. Once certification is revoked, a candidate can regain certification by applying for and fulfilling the current requirements for OCT-C certification.

Requirements for recertification:

1. **Eight (8) hours** of continuing education credit **(8 CECs)** during each three-year interval

OR

2. Retesting prior to the end of the third year

CEC Requirements:

- Of the eight required hours, **a minimum of four (4)** MUST be earned by attending official OPS courses or BOC pre-approved courses and workshops. Each hour of lecture or workshop equals one credit hour (1 CEC)
- Of the eight required hours, **a maximum of six (6)** MAY be earned by teaching official OPS or OPS approved courses or workshops. Each hour of lecture or workshop equals one credit hour (1 CEC)
- Of the eight required hours, **a maximum of four (4)** MAY be earned by attending NON-OPS APPROVED courses or workshops. These include courses or workshops approved by the Joint Commission of Allied Health Personnel in Ophthalmology (JCAHPO) or courses approved by the American Medical Association (AMA) for Category I Continuing Ophthalmic Medical Education. Each hour of these courses or workshops equals one half-credit hour (1/2 CEC)
- Of the eight required hours, **a maximum of three (3)** MAY be earned by first authorship or co-authorship in the OPS Journal, ophthalmic or photographic journals or textbooks and other scientific publications. Submission of publications for CEC review must be made by separate application. (See CECs for Publication on OPS website for details)

Responsibility and Verification

It is the responsibility of certificants to maintain their CECs and submit their application with supporting documentation verifying teaching or attending a course/workshop or publication credits. Credits for teaching must be supported by a copy of the printed program reflecting the type and degree of content. A certificate or statement of attendance on official letterhead from the director of the course or workshop is required. A paid receipt is not acceptable as evidence of attendance. Credits for publications require a validation letter from the Recertification Section Chair. CECs submitted for CRA recertification may also be used concurrently for OCT-C recertification.

Payment of the **recertification fee** is submitted with the recertification application. Certificants that choose to retest will pay the examination fee and will not be required to pay a recertification fee. Payment by check in US dollars to OPS/BOC or by credit card can be made on the OPS Website Store (opsweb.org).

Recertification Fees:

Non-member Fee: $225 OPS Member Fee: $ 100

Please call the OPS Membership Office (1-800-403-1677) to verify your membership status.

Recertification Extensions and Appeals

Individuals may request a one-time six (6) week recertification extension based on extreme hardship. The Recertification Section Chair (octrecert@opsweb.org) is authorized to give this one-time extension. A $25.00 late fee will be applied to all late recertification requests. Letters of revocation are sent after the six (6) week period. Should recertification be denied, the applicant may appeal within thirty (30) days to the Chair of the BOC (BOC@opsweb.org). Appeal instructions are provided with the letter of revocation. The BOC decision regarding all appeals is final and binding. Refer to **Appeals** on **page 17** for details.

Recertification Applications and Information

During the third year of the certification interval, the OCT-C Recertification Section Chair will notify certificants of the need for recertification.

Recertification instructions and applications are available on the OPS web site; OCT-C Recertification page at www.opsweb.org > Certification > Recertification.
Certificants having difficulty completing their requirements or who expect to be unable to meet the December 31st deadline should contact the Recertification Section Chair as soon as possible. The Recertification Section Chair may be able to provide assistance or a course of action for completing the requirements. Certificants should contact the OCT-C Recertification Section Chair for any questions or concerns about recertification requirements or accrual of continuing education credits.

OCT-C Retired

The OCT-C Retired (OCT-CR) certification is designated exclusively for current OCT-Cs who have fully retired from active practice in the field and are no longer working in an ophthalmic imaging capacity.

OCT-C Retired Recertification: Requirements

OCT-CR recertification is required in three (3) year intervals following initial certification. Certificants may achieve recertification by accrual of continuing education credits or retesting. It is the responsibility of the certificant to provide proof of compliance with the recertification requirements prior to the end of the third year. The three (3) year recertification cycle begins on January 1st of the year after certification is earned. Only education credits earned within the three (3) year interval will be accepted. Failure to recertify will result in the revocation of OCT-CR certification. Once certification is revoked, a candidate can regain certification by applying for and fulfilling the current requirements for OCT-CR certification.

Requirements for recertification:

- Recertification requires the accrual of **three (3) hours** of continuing education credits **(3 CECs)** during each three (3) year interval

CEC Requirements:

- Of the three required hours, **a minimum of one (1)** MUST be earned by attending official OPS courses or BOC pre-approved courses and workshops. Each hour of lecture or workshop equals one credit hour (1 CEC)
- Of the three required hours, **a maximum of two (2)** MAY be earned by teaching official OPS or OPS approved courses or workshops. Each hour of lecture or workshop equals one credit hour (1 CEC)
- Of the three required hours, **a maximum of two (2)** MAY be earned by first authorship or co-authorship in the OPS Journal, ophthalmic or photographic journals or textbooks and other scientific publications. CECs. Submission of publications for CEC review must be made by separate application. (See CECs for Publication on OPS website for details)

Responsibility and Verifications

It is the responsibility of certificants to maintain their CECs and submit their application with supporting documentation verifying teaching or attending a course/workshop or publication credits. Credits for teaching must be supported by a copy of the printed program reflecting the type and degree of content. A certificate or statement of attendance on official letterhead from the director of the course or workshop is required. A paid receipt is not acceptable as evidence of attendance. Credits for publications require a validation letter from the Recertification Section Chair. CECs submitted for CRA-R recertification may also be used concurrently for OCT-CR recertification.

Payment of the **recertification fee** is submitted with the recertification application. Certificants that choose to retest will pay the examination fee and will not be required to pay a recertification fee. Payment by check in US dollars to OPS/BOC or by credit card can be made on the OPS Website Store (opsweb.org).

OCT-CR (Retired) Recertification Fees

Non-member Fee: $60 OPS Member Fee: $30

Please call the OPS Membership Office (1-800-403-1677) to verify your membership status.

Recertification Extension and Appeals

Individuals may request a one-time six (6) week recertification extension based on extreme hardship. The Recertification Section Chair (octrecert@opsweb.org) is authorized to give this one-time extension. A $25 late fee will be applied to all late recertification requests. Letters of revocation are sent after the six (6) week period. Should recertification be denied, the applicant may appeal within thirty (30) days to the Chair of the BOC (BOC@opsweb.org). Appeal

instructions are provided with the letter of revocation. The BOC decision regarding all appeals is final and binding. Refer to **Appeals** on **page 17** for details.

Recertification Application and Information

During the third year of the certification interval, the OCT-C Recertification Section Chair will notify certificants of the need for recertification.

Recertification instructions and applications are available on the OPS web site; OCT-CR Recertification page at www.opsweb.org > Certification > Recertification > Retired Recertification. Certificants having difficulty completing their requirements or who expect to be unable to meet the December 31st deadline should contact the Recertification Section Chair as soon as possible. They may be able to provide assistance or a course of action for completing the requirements. Certificants should contact the OCT-C Recertification Section Chair for any questions or concerns about recertification requirements or accrual of continuing education credits.

Returning to OCT-C Certification

Transitioning from OCT-CR to OCT-C requires reapplication, portfolio, and written exam.

OCT-C Certification Process Check List

____ 1. Submit a completed Program Application

____ 2. Compile OCT-C Portfolio

____ 3. Upload your Portfolio

____ 4. AFTER your portfolio is accepted, complete the Examination Application (sent to you by OCT-C Section Chair). Submit this form, along with your employer OCT verification letter and exam fees as directed (Payment by check in US dollars to OPS/BOC or by credit card via the OPS website store or the OPS Central Office at 1-(800)-403-1677)

____ 5. Once all paperwork and fees are received, Prometric will contact you with final instructions to select the place and time of your exam

Appendices

Appendix A: Spectral Domain OCT Portfolio Requirements

Appendix A

OCT Portfolio Requirements

The portfolio must be produced entirely by the applicant. These requirements are broad-based and can be applied to any OCT device. If you have questions about the device you use, please refer to the device-specific user manual and if needed please contact the OCT-C Section Chair and they will direct you to someone that can help with your question.

All item submissions must be saved in a format that includes relevant imaging data. Submissions that do not display this information will not be accepted. (Please see page 6 of the OCT-C Program Guide for greater detail).

Label all files with your last name as a prefix to the item #. For example, the submission set for item # 7 should be labeled: **"your last name" 7a (SMITH 7a). Complete naming and labeling conventions can be found on page 6 of the OCT-C Program Guide.**

A healthy eye can be used when pathology is not specified in the item description. If applicable, the same eye may be imaged for multiple items. The same image or report cannot be submitted for two (2) different items.

Some items are linked. If you need to resubmit one (1) you will be asked to resubmit both (e.g. items 4 and 5 are linked, as are the pathology items).

1. Submit a serial set of two (2) macular map analyses of one (1) eye without macular pathology and a normal foveal contour. The scans must be performed on the same day and the same eye with a minimum of five (5) minutes and a maximum of eight (8) hours between scans (make a note of the time). The central foveal thickness value for each map must be within 10% of each other. **Do not use follow-up function for these images;** they will be rejected.
    - Submit the map analyses for both scans
        - Label first map: **1A**
        - Label second map: **1B +** the length of time between scans (e.g. **1B5** for +5 minutes or **1B1HR** for +1 hour
2. Submit a serial set of two (2) macular map analyses of one (1) eye with a central foveal thickness of 350 microns or more. The scans must be performed on the same day and the same eye with a minimum of five (5) minutes and a maximum of eight (8) hours between scans (make a note of the time). The central foveal thickness value for each map must be within 10% of each other. **Do not use follow-up function for these images;** they will be rejected.
    - Submit the map analyses for both scans
        - Label first map: **2A**

- Label second map: **2B +** the length of time between scans (e.g. **2B5** for +5 minutes or **2B1HR** for +1 hour

3. Acquire one (1) macula and one RNFL mapping scan group through an **un-dilated** or minimally dilated pupil. Pupil size should be less than 4mm. Both scans must be acquired on the same eye. Signal strength needs to be 50% or greater as displayed by your device's scan quality value.
    - Submit one (1) retinal map and one (1) RNFL analysis map for each scan
        - Label retinal map: **3A**
        - Label RNFL map: **3B**
4. Acquire one **high resolution** line scan through a media opacity (e.g. cataract, vitreous hemorrhage, etc.) of an **eye with macular or foveal pathology**. Scan should illustrate the compromised scan quality from the opacity.
    - Label: **4A**
5. On the same eye used in item # 4, acquire a **high-resolution** line scan around the media opacity. Scan angle or positioning within the pupil should be adjusted to minimize scan degradation and be able to illustrate improved visibility of pathology and retinal layers. If using Heidelberg Spectralis OCT, **ART setting must be consistent** with item 4.
    - Label: **5A**
6. Acquire one **high resolution** line scan at 90 degrees
    - Label: **6A**
7. Acquire one **high resolution** line scan horizontally at the **default** scan length setting possible for your device.
    - Label: **7A**
8. Acquire one **high resolution** line scan centered on the fovea in the **right eye** at the **longest** scan length setting for your device. Change the axis of the scan by 5 degrees and scan the eye from temporal to nasal.
    - Label: **8A**
9. Using any line scan, provide a measurement of any retinal pathology using the caliper or measurement function provided by your specific device. Caliper or measured value must be displayed on the submitted scan or image.
    - Label: **9A**
10. Submit the specified scan and analysis for **four out of the five** conditions below. **You only need submissions for <u>one (1) eye</u> for each condition.**
    - Cystoid Macular Edema
        - Macular thickness analysis or map
            - Label: **10A1**
        - Perform and submit one (1) individual **high resolution horizontal** line scan
            - Label: **10A2**
    - Macular Hole/Macular Traction/Epiretinal Membrane
        - Perform and submit one (1) individual **high resolution horizontal** line scan
            - Label: **10B1**

    - Perform and submit one (1) individual **high resolution vertical** line scan
        - Label: **10B2**

- Glaucoma
    - RNFL scan with report/analysis
        - Label: **10C1**
    - Perform and submit one (1) individual **high resolution horizontal** line scan of the optic nerve head. Scan should section the nerve at 3:00 and 9:00
        - Label: **10C2**
- Retinal Pigment Epithelial Detachment
    - Perform and submit one (1) individual **high resolution horizontal** line scan sectioned through the pathology
        - Label: **10D1**
    - Perform and submit one (1) individual **high resolution** line scan of the same eye, through approximately the same section of pathology as in 10D1, using enhanced depth imaging (EDI)
        - Label: **10D2**
- Age Related Macular Degeneration
    - Macular thickness map centered on the macula. Pathology must be within the scanned area (i.e. macula)
        - Label: **10E1**
    - Perform and submit one (1) individual **high resolution horizontal or vertical** line scan sectioned through the pathology
        - Label: **10E**