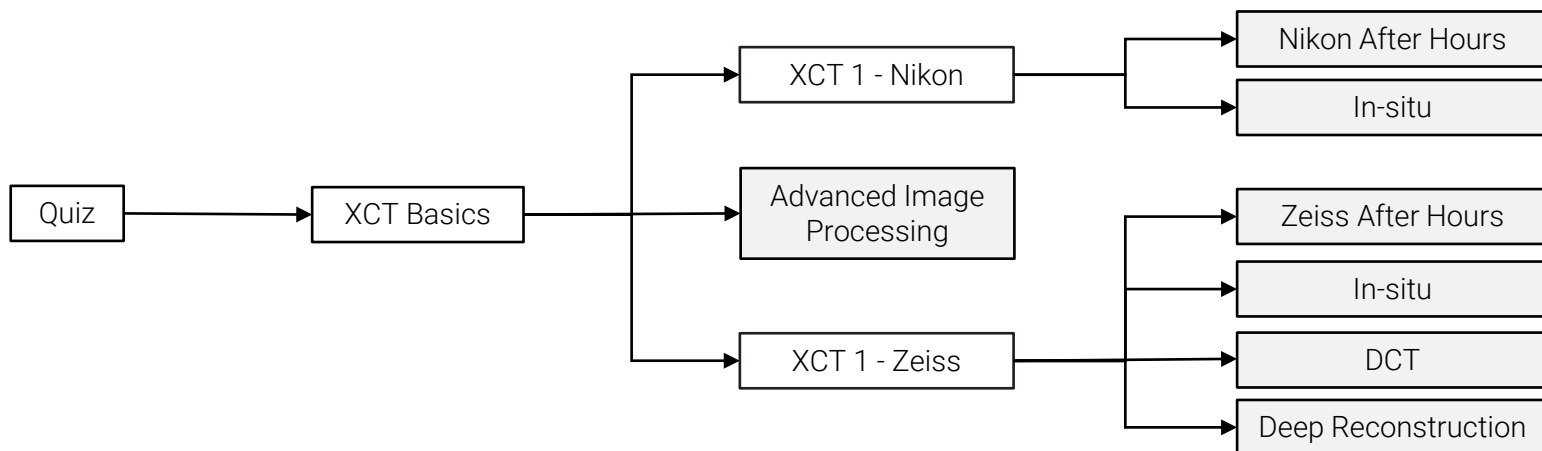


CCEM strives to be Canada's leader in comprehensive, accessible training in cutting edge microscopy. We recognize the rapidly evolving landscape of microscopy and are dedicated to offering a comprehensive educational experience in the latest techniques. However, the heart of this training remains our students. Our design is aimed at ensuring maximum accessibility, placing students at the epicenter of our efforts, empowering them to harness the full potential of XCT technology and contribute significantly to its future advancements.

XCT Training Workflow: White boxes are available options; grey boxes are coming soon!*



*Training is available for the designated grey box modules; however, standard pricing and methodologies will apply.

Introductory XCT Quiz

Description:	Tests basic XCT theory based on suggested reading and learning material.
Prerequisite:	Approved access to CCEM (including WHMIS 2015) and McMaster X-ray Training with Health Physics
Completion Requirement:	Grade of $\geq 80\%$
Permissions:	None

Module: XCT Basics

Description:	Introduction to XCT capabilities and basic data reconstruction.
Prerequisite:	Completion of Introductory XCT Quiz
Completion Requirement:	3 in-person training and hands-on skills test
Permissions:	Booking privileges to XCT reconstruction PC

Module: XCT 1 – Nikon

Description:	XCT training specific to Nikon operation.
Prerequisite:	Completion of XCT Basics Module
Completion Requirement:	3 in-person training sessions and hands-on skills test
Permissions:	Unsupervised Daytime Nikon Booking

Module: XCT 1 – Zeiss

Description:	XCT training specific to Zeiss operation.
Prerequisite:	Completion of XCT Basics Module
Completion Requirement:	4 in-person training sessions and hands-on skills test
Permissions:	Unsupervised Daytime Zeiss Booking

Module: After Hours

Description:	Enhanced troubleshooting and safety procedures for working after hours.
Prerequisite:	Respective instrument module completion and 10 Daytime logged hours on that instrument
Completion Requirement:	1 in-person training session
Permissions:	Unsupervised After Hours Booking

Pricing

The pricing for ETM is structured at a reduced rate, ranging between 50% to 70% off the standard hourly rates. This adjustment is in line with our commitment to promote easier access and facilitate student education. As more modules become available this table will be updated.

	Module	Re-test	Missed Session	After hours	Adv. Image Proc.	In-situ	DCT	Deep Recon.
XCT Basics	330	105	55					
XCT 1 – Nikon	630	200	105					
XCT 1 – Zeiss	880	220	110					

User Expectations:

Training Session Booking Requirements:

- Bookings will not be completed until the Introductory XCT Quiz is complete
- All training sessions must be booked a maximum of one week apart to complete a module. If the training sessions go beyond one week apart the student will be expected to take an additional training session at the price listed as a “missed session”.
- XCT Basics must be booked one week maximum before entering XCT 1.

Introductory XCT Quiz: To ensure proficiency, users are expected to achieve a score of 80% or above. Should the initial attempt not meet this standard, a fresh quiz will be provided. We encourage continuous learning, allowing users to retake the quiz as needed until the desired grade is secured. We’re here to support your journey to mastery!

Module Hands-on test: To ensure the highest standards of proficiency, students are required to achieve a passing score on the test. Upon completion, each student will receive a detailed copy of their graded quiz for review. In the event a student doesn’t meet the required standard, we offer an additional one-hour practice session followed by another test, available for the fee listed in the pricing table as “re-test”. This follow-up should be scheduled within a week from the initial test date. Our commitment is to mastery; hence, if a student doesn’t meet the mark on their second attempt, revisiting the entire module will be necessary to ensure thorough understanding.

Additional Instruction: A student can request additional instruction before their module hands-on test. This will be charged at the full instrument and staff rate.

Previous training from another institution: Should a student indicate prior experience with XCT training, our team, at its discretion, may offer the opportunity to advance directly to the hands-on test. To ensure readiness, students will be granted a one-hour practice session followed by an assessment for the fee listed in the pricing table as “re-test”. However, in the event the test isn’t successfully completed, the student will then commence their training journey with the Introductory XCT Quiz to ensure foundational knowledge is solidified. We aim to recognize existing expertise while ensuring all users meet our rigorous standards for XCT operation.

Missed session or arriving late: To maintain the efficiency of our training sessions, we kindly request users to notify the instructor before the start of the training session if they’re unable to attend a scheduled session. Please be aware that missing a session without timely notice or arriving over 10 minutes late will incur a fee of a missed session. To continue with the training program, it will be essential to reschedule the missed session within the one-week period from your previous training session.

Training samples: To ensure a consistent and fair training experience for everyone, we will provide standardized samples during both training and assessment phases. This approach is designed to foster equity and uniformity throughout the learning process for all users.

Independent Instrument Permissions: If a user remains inactive for a period of six months, their booking privileges will be temporarily suspended. To regain unsupervised access to the instrument, a proficiency test with a one-hour practice session will need to be scheduled at a cost of a re-test. Please note that if one doesn’t successfully complete this test, the procedure for a failed hands-on test will be followed.