CCEM TEM Training Overview

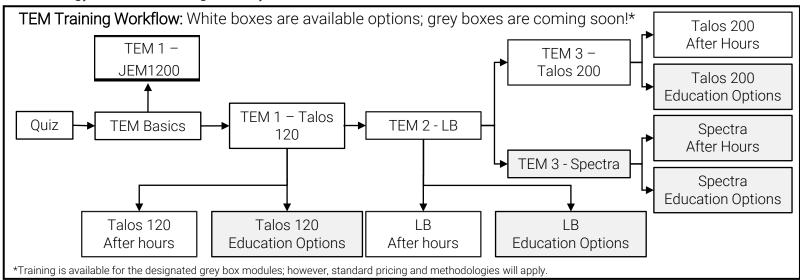
Requirement:

Permissions:

Unsupervised Daytime Spectra Booking



CCEM strives to be Canada's leader in comprehensive, accessible training in cutting edge microscopy. We recognizes 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 TEM technology and contribute significantly to its future advancements.



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	Talos 120 After hours	Talos 120 Education Options	LB After hours	LB Education Options										
*Training is availa	*Training is available for the designated grey box modules; however, standard pricing and methodologies will apply.													
	Introductory	TEM Quiz		Module: TEM Basics										
Description:	reading and lear		d Description:	Introduction to TEM capabilities and basic alignments.										
Prerequisite:	Approved acces 2015)	ss to CCEM (incl. WHMIS	Prerequisite:	Completion of Introductory TEM Quiz										
Completion Requirement			Completion Requirement	1 in-person training session with staff										
Permissions:	None		Permissions:											
	Module: TEN	11 – T120		Module: TEM 1 – JEM1200 (FHS)										
Description:	Basic TEM train	ing for TEM imaging.	Description:	Enhanced training for TEM and STEM imaging for biomaterials.										
Prerequisite:	Completion of T	EM Basics Module	Prerequisite:	Completion of TEM Ba	sics Module									
Completion Requirement:	3 in-person trair	ning and hands-on skills te	CI '	Completion TBD Requirement:										
Permissions:	Unsupervised Daytime Talos 120 Booking Permissions: Unsupervised Daytime TEM1200 Bo													
	Module: TEM			Module: TEM 3 – Tal										
Description:	imaging.	ng for TEM and STEM	Description:	Transitioning skills from LB to Talos 200 wit TEM and STEM imagining.										
Prerequisite:		EM 1 – Talos 120 with 3 ndent logged time	Prerequisite:	Completion of TEM 2 with 3 hours of independent logged time										
Completion Requirement	2 in-person trair	ning and hands-on skills te	st Completion Requirement	2 in-person training an	d hands-on skills test									
Permissions:	Unsupervised D	aytime LB Booking	Permissions:	Unsupervised Daytime	Talos 200 Booking									
	Module: TEM			Module: After Ho										
Description:	learning to use t	tills from LB to Spectra and the image & probe correcto	HIDECTION ON	Enhanced troubleshoo procedures for working	•									
Prerequisite:		EM 2 with 3 hours of ged time and image correc	Respective instrument and 10 Daytime logged instrument											
Completion Requirement	. 3 in-person trair	ning and hands-on skills te	st Completion Requirement	1 in-person training session										

Requirement:

Permissions:

Unsupervised After Hours Booking

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Canadian Centre for Electron Microscopy

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	EDS	EELS	In-situ	Diff.	Mono	Image Cor.
TEM Basics	200		100							
TEM 1 – Talos 120	350	140	75	70						
TEM 1 - JEM1200	175	95	40							
TEM 2 - LB	350	155	90	80						
TEM 3 – Talos 200	550	190	145	120						
TEM 3 - Spectra										

User Expectations:

Training Session Booking Requirements:

- Bookings will not be completed until the Introductory TEM 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".
- TEM Basics must be booked one week maximum before entering TEM 1.

Introductory TEM 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 perfect 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 TEM 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 TEM Quiz to ensure foundational knowledge is solidified. We aim to recognize existing expertise while ensuring all users meet our rigorous standards for TEM 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 may be temporarily suspended at the discretion of CCEM staff. 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.

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