

# Medical Laboratory Technology

**2-Year** Diploma



Medical Laboratory Technologists are essential members of the healthcare team, using advanced laboratory testing to support diagnosis, treatment, and disease prevention in healthcare and research settings across Manitoba and beyond.

## PROGRAM LEARNING OUTCOMES

- ▶ Collect blood and process specimens (blood, body fluids, and tissues) using appropriate collection techniques, labelling standards, and handling protocols to ensure specimen integrity and patient safety.
- ▶ Apply foundational knowledge of anatomy, physiology, pathophysiology, and medical terminology to interpret test requirements and support patient-centered laboratory services.
- ▶ Prepare, operate, and maintain laboratory instruments and equipment (e.g., analyzers, centrifuges, microscopes) following manufacturer instructions, institutional protocols, and safety standards.
- ▶ Perform pre-analytical, analytical, and post-analytical procedures across the core laboratory disciplines (clinical chemistry, hematology, histotechnology, microbiology, and transfusion science) to generate accurate and reliable diagnostic results.
- ▶ Integrate laboratory information systems (LIS) and informatics tools to enter, verify, retrieve, and manage patient and laboratory data while maintaining accuracy, confidentiality, and data security.
- ▶ Apply quality assurance and quality control principles in accordance with regulatory, accreditation, and institutional requirements to support continuous improvement and reliability of laboratory services.

For a full list of program learning outcomes, visit [assiniboine.net/MLT](http://assiniboine.net/MLT).

## A CAREER IN THIS FIELD IS A GOOD FIT FOR YOU IF YOU WOULD ENJOY OR HAVE...

- ▶ Enjoy helping people and contributing to patient care
- ▶ Are comfortable working with blood and other bodily specimens
- ▶ Have strong attention to detail and value accuracy in your work
- ▶ Can follow strict safety protocols and procedures
- ▶ Are interested in medical science, anatomy, or diagnostic testing



**Campus/Delivery Options**  
Victoria Avenue East campus



**Available Intakes**  
September 2027



**Work Integrated Learning**  
Practicum (Unpaid)

## EXPECTATIONS

### Program and Industry

- ▶ Attend class in-person for full-time hours (28-36 hours depending on term)
- ▶ Work in clinical or laboratory settings that may include exposure to infectious materials such as blood, body fluids, and tissues
- ▶ Demonstrate strong technical abilities including fine motor control, good manual dexterity, visual acuity, and accurate colour discrimination
- ▶ Stand or sit for extended periods of time and perform repetitive tasks
- ▶ Collect specimens directly from patients, requiring emotional maturity and professionalism
- ▶ Wear personal protective equipment (PPE) such as gloves, lab coats, and face shields
- ▶ Follow precise protocols and perform tasks under time pressure
- ▶ Maintain patient confidentiality and adhere to professional codes of conduct
- ▶ Adapt to new technologies and keep pace with evolving laboratory practices
- ▶ Work within a 24-hour shift cycle which may include evening, nights, weekends, and holidays depending on employer and discipline.

For a full list of program and industry expectations, visit [assiniboine.net/MLT](http://assiniboine.net/MLT).

## WORKPLACE AND EMPLOYER OPPORTUNITIES

- ▶ Urban, Community, or Rural Hospital Laboratories (Shared Health Manitoba)
- ▶ Provincial Laboratories (Cadham Provincial Laboratory and Veterinary Diagnostic Services Laboratory)
- ▶ Federal Laboratories (PHAC, CFIA, NML, etc.)
- ▶ Private Laboratories (Dynacare)
- ▶ Canadian Blood Services
- ▶ Research Laboratories

## ADMISSION REQUIREMENTS

- ▶ English 40G/40S or equivalent with a minimum mark of 70%
- ▶ Pre-Calculus, Applied or Essential Math 40S or equivalent with minimum mark of 70%
- ▶ Biology 30S and Biology 40S or equivalent with minimum mark of 70%
- ▶ Chemistry 40S or equivalent with a minimum mark of 70%

# Next Steps

### SPEND A DAY WITH US

Our Spend a Day program runs from November to March for most programs. When you spend a day at Assiniboine, we partner you with a current student in the program of your choice so you have the opportunity to:

- ▶ Participate in classroom activities
- ▶ Experience college life
- ▶ Explore all of our helpful services for students
- ▶ Meet current college students and instructors
- ▶ Enjoy a free lunch on us!

[assiniboine.net/spendaday](http://assiniboine.net/spendaday)

**Confidence in the career path you choose to embark on is key and selecting the right program for you is the first step. At Assiniboine, we offer an opportunity to explore and experience a program before applying. Choose to:**

### ATTEND AN ONLINE INFO SESSION

Our free, live online information sessions give you the inside scoop on our college, the program you're interested in and life at Assiniboine. Register in advance and from the comfort of your own home, log in to learn what Assiniboine has to offer.

[assiniboine.net/infosessions](http://assiniboine.net/infosessions)



**Ready to start?  
Apply Now!**