

Combined Laboratory & X-Ray Technology

2-Year Diploma



Launch a rewarding healthcare career with dual training in laboratory testing and diagnostic imaging. This hands-on program prepares you to make a real impact in community hospitals and rural health centres across Manitoba.

PROGRAM LEARNING OUTCOMES

- ▶ Perform specimen procurement and processing (e.g., venipuncture, body fluids) using correct identification, labelling, handling, and transport protocols to ensure specimen integrity and patient safety.
- ▶ Apply foundational knowledge of anatomy, physiology, pathophysiology, radiographic principles, and medical terminology to interpret orders and support patient-centred laboratory and imaging services.
- ▶ Operate laboratory analyzers and equipment (e.g., centrifuges, microscopes) and general radiographic systems (CR/DR, fixed and mobile) in accordance with manufacturer instructions, institutional procedures, and safety standards.
- ▶ Perform pre-analytical, analytical, and post-analytical laboratory procedures within the CLXT scope (e.g., hematology, chemistry, transfusion science, urinalysis), by validating and correlating results and acting on critical values.
- ▶ Acquire general diagnostic radiographs and electrocardiograms (stationary or mobile units) by verifying identity/consent, positioning safely (including trauma/limited mobility/pain/distress), selecting technique factors, and evaluating image quality prior to transmission for interpretation.

For a full list of program learning outcomes, visit assiniboine.net/CLXT.

A CAREER IN THIS FIELD MAY BE A GOOD FIT IF YOU WOULD ENJOY OR HAVE...

- ▶ Enjoy helping people and contributing to patient care
- ▶ Are comfortable working directly with patients of all ages
- ▶ 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 (27-36 hours depending on term)
- ▶ Work in clinical laboratories and diagnostic imaging areas with potential exposure to ionizing radiation, infectious materials, sharps, and chemical hazards.
- ▶ Demonstrate strong technical abilities including fine motor control, good manual dexterity, visual acuity, and accurate colour discrimination
- ▶ Stand or sit for extended periods and complete repetitive fine-motor tasks (e.g., phlebotomy, microscopy, image acquisition).
- ▶ Position, transfer and immobilize patients safely to obtain quality radiographic images while applying radiation-protection practices.
- ▶ Collect and process specimens directly from patients (venipuncture/capillary) and perform ECGs with professionalism, empathy and clear communication.
- ▶ Wear personal protection equipment (PPE) and follow infection-control and Workplace Hazardous Materials Information System (WHMIS) procedures; handle and dispose of hazardous and biohazardous materials appropriately.
- ▶ Follow precise protocols and perform tasks accurately under time pressure

- ▶ Maintain patient confidentiality and uphold professional codes of conduct while collaborating within interprofessional teams and diverse patient populations.
- ▶ Adapt to evolving technologies and rotating schedules (including early mornings, evenings, weekends, on-call)
- ▶ Be ready for rural/independent practice settings.

WORKPLACE AND EMPLOYER OPPORTUNITIES

- ▶ Rural Community Hospital and Health Centre (Shared Health Manitoba)

ADMISSION REQUIREMENTS

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

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



Ready to start?
Apply Now!