

Area of Interest: Health Sciences

## Medical Device Reprocessing

Ontario College Certificate

Program Code: 1619X01FWO

1 Year

Ottawa Campus

### Our Program

**Dedicate your career to creating a safe place for healthcare teams and their patients.**

Throughout the program, you engage in both classroom instruction and hands-on training to develop proficiency in using specialized equipment and understanding complex reprocessing workflows. You also benefit from two clinical placements, providing the opportunity for integrating theory and principles within a healthcare setting.

As a student, you develop knowledge and proficiency in areas including:

- microbiology
- anatomy
- medical terminology
- sterilization technologies
- regulatory frameworks

The curriculum is designed to prepare you for real-world challenges and ensure you can maintain the highest level of safety and compliance in medical device reprocessing. The program also emphasizes the importance of teamwork, communication, and problem-solving, ensuring you are equipped to work collaboratively with other healthcare professionals.

Upon graduating, you may find work in healthcare facilities, which may include:

- hospital medical device reprocessing areas
- public and private healthcare clinics
- surgical centres

### Employment

Graduates may seek employment opportunities as medical device reprocessing technicians.

### Learning Outcomes

The graduate has reliably demonstrated the ability to:

- Apply principles of microbiology and infection prevention and control in the reprocessing of medical devices.
- Sort, inspect and test medical devices for cleanliness, safety and function.
- Prepare, package, and sterilize multi-use medical devices required for medical procedures according to industry standards and pre-determined surgical procedure-specific requirements.
- Select, manage load, operate and troubleshoot sterilization and high-level disinfecting equipment in accordance with industry standards and manufacturer's instructions for use.

- Store, inventory, transport and distribute medical devices to maintain sterile integrity.
- Contribute to quality assurance by monitoring, documenting, and responding to non-compliant reprocessing events.
- Operate and troubleshoot medical device reprocessing equipment in accordance with industry standards and manufacturer's instructions.
- Complete all medical device reprocessing-related work within the scope of organizational policies, standard operating procedures, and best practices.
- Decontaminate medical devices following industry standards and manufacturer's instructions.
- Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

## Program of Study

Level: 01	Courses	Hours
ENL1813S	Communications 1	42.0
HLT0210	Infection Control for Healthcare	42.0
HLT0211	Introduction to Medical Device Reprocessing	42.0
HLT0212	Medical Device Lab Skills 1	42.0
HLT0213	Medical Device Clinical 1	40.0
HLT0214	Surgical Instruments and Decontamination	42.0
HLT0226	Anatomy and Physiology for Medical Device Reprocessing	42.0
Level: 02	Courses	Hours
HLT0215	Packaging and Sterilization	40.0
HLT0216	Inventory Management, Storage and Distribution	40.0
HLT0217	Endoscope Reprocessing	55.0
HLT0218	Medical Device Lab Skills 2	40.0
HLT0219	Medical Device Clinical 2	96.0
Choose one from equivalencies:	Courses	Hours
GED1619	General Education Elective	42.0

## Fees for the 2025/2026 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at <http://www.algonquincollege.com/fee-estimator>

Further information on fees can be found by visiting the Registrar's Office website at <http://www.algonquincollege.com/ro>

Fees are subject to change.

Additional program related expenses include:  
Books and supplies cost approximately \$500.

## **Admission Requirements for the 2026/2027 Academic Year**

### **College Eligibility**

- Ontario Secondary School Diploma (OSSD) or equivalent; OR
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing, for which a fee will be charged.

### **Program Eligibility**

- English, Grade 12 (ENG4C or equivalent).
- Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).
- IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT)-overall 80, with a minimum of 20 in each component: Reading 20; Listening 20; Speaking 20; Writing 20; OR Duolingo English Test (DET) Overall 110, minimum of 110 in Literacy and no score below 95.

### **International Applicants:**

International applicants who meet the program eligibility requirements are required to complete preparatory courses (4-months in duration): Introduction to Canadian Health Studies (ICHS). Students who successfully complete the introduction will then proceed to their original health program of choice. The ICHS requires applicants to submit an academic IELTS score.

Please click this link for more information:

<http://www.algonquincollege.com/healthandcommunity/ICHS>

## **Admission Requirements for 2025/2026 Academic Year**

### **College Eligibility**

- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
- Academic and Career Entrance (ACE) certificate; OR
- General Educational Development (GED) certificate; OR
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee will be charged.

### **Program Eligibility**

- English, Grade 12 (ENG4C or equivalent).
- Applicants with international transcripts must provide proof of the subject-specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).
- IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT)-overall 80, with a minimum of 20 in each component: Reading 20; Listening 20; Speaking 20; Writing 20; OR Duolingo English Test (DET) Overall 110, minimum of 110 in Literacy and no score below 95.

Not sure if you meet all of the requirements? Academic Upgrading may be able to help with that:  
<https://www.algonquincollege.com/access/> .

**International Applicants:** International applicants who meet the program eligibility requirements are required to complete preparatory courses (4 months in duration): Introduction to Canadian Health Studies (ICHS). Students who successfully complete the introduction will then proceed to their original health program of choice. The ICHS requires applicants to submit an academic IELTS score.

Please click this link for more information  
<https://www.algonquincollege.com/healthandcommunity/ICHS/> .

**Police Records Check Documentation:**

Though not an admission requirement, applicants must note important information listed below regarding Police Record Check program requirements.

Students must provide the College with a current Police Records Check(PRC) prior to the deadline identified by the department and students are responsible for any associated costs. If this documentation is not submitted on time, students may not be placed and registration in the program will be jeopardized. If you register in the program without a clear PRC and as a result are unable to participate in placement, you will not be able to graduate and will be asked to withdraw.

Hospital and Field Placements/Outreach require Health and Safety, WHMIS and OWSHA training prior to placements. There are additional costs associated with training that should be anticipated by students which are not covered by tuition fees.

To be eligible for placement, you must submit proof of PRC and complete immunizations through ParaMed and pay any associated costs. ParaMed services are the third-party provider who collects all field placement documentation for the School of Health and Community Studies.

Should you require further information, please contact the Program Chair.

## **Application Information**

### **MEDICAL DEVICE REPROCESSING Program Code 1619X01FWO**

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca  
60 Corporate Court  
Guelph, Ontario N1G 5J3  
1-888-892-2228

Students currently enrolled in an Ontario secondary school should notify their Guidance Office prior to their online application at <http://www.ontariocolleges.ca/>

Applications for Fall Term and Winter Term admission received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.

International applicants please visit this link for application process information:  
<https://algonquincollege.my.site.com/myac360/s/self-registration-page> .

For further information on the admissions process, contact:

Registrar's Office  
Algonquin College  
1385 Woodroffe Ave  
Ottawa, ON K2G 1V8  
Telephone: 613-727-0002  
Toll-free: 1-800-565-4723  
TTY: 613-727-7766  
Fax: 613-727-7632  
Contact: <https://www.algonquincollege.com/ro>

## **Additional Information**

This is a physically demanding profession. Individuals entering this field must be able to undertake moderately heavy lifting of equipment and supplies and pulling/pushing mobile transportation carts. They must be willing to do shift work in a department that operates 24 hours daily and every day of the week.

**Clinical Placements:**

To participate in clinical placements, students must have all necessary pre-placement documentation completed. This includes, but is not limited to: immunizations, criminal record check, health and safety training, and possible hospital-specific training. Students must have all pre-placement documentation completed by Week 8 of the Level 01 semester. Students who do not complete their pre-placement documentation in time may not attend their clinical placement and may be unsuccessful in the course. It is strongly suggested that students begin the process of completing their documentation as soon as they are admitted to the program.

**Clinical 1**

- Infection Control for Healthcare
- Intro to Medical Device Reprocess
- Medical Device Lab Skills 1
- Surgical Instruments and Decontamination

**Clinical 2**

- Packaging and Sterilization
- Inventory Management, Storage and Distribution
- Endoscope Reprocessing
- Medical Device Lab Skills 2

**Field Placement Eligibility:**

Hospital and Field Placements/Outreach require Health and Safety, WHMIS and OWHSA training prior to placements. There are additional costs associated with training that should be anticipated by students which are not covered by tuition fees.

To be eligible for placement, you must submit proof of PRC and complete immunizations through ParaMed and pay any associated costs. ParaMed services are the third-party provider who collects all field placement documentation for the School of Health and Community Studies.

**Police Records Check Documentation:**

Applicants must note important information listed below regarding Police Record Check program requirements.

Students must provide the College with a current Police Records Check (PRC) prior to the deadline identified by the department and students are responsible for any associated costs. If this documentation is not submitted on time, students may not be placed and registration in the program will be jeopardized. If you register in the program without a clear PRC and, as a result, are unable to participate in placement, you will not be able to graduate and will be asked to withdraw.

Should you require further information, please contact the Program Chair.

**Contact Information****Program Coordinator(s)**

- Melanie Smith, <mailto:smithm8@algonquincollege.com> ,

**Course Descriptions****ENL1813S Communications 1**

Communication remains an essential skill sought by employers, regardless of discipline or field of study. Using a practical, vocation-oriented approach, students focus on meeting the requirements

of effective communication. Through a combination of lectures, exercises, and independent learning, students practise writing, speaking, reading, listening, locating and documenting information and using technology to communicate professionally. Students develop and strengthen communication skills that contribute to success in both educational and workplace environments.

Prerequisite(s): none  
Corerequisite(s):none

### **GED1619 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following five theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, Personal Understanding, and Science & Technology.

Prerequisite(s): none  
Corerequisite(s):none

### **HLT0210 Infection Control for Healthcare**

Knowledge of various microorganisms, their biological behaviour and interactions with the host are essential to understanding disease development and infection control measures in healthcare settings. Students recognize normal flora, disease-causing microorganisms and general epidemiological principles. Students explore the rationale for disinfection and aseptic procedures in preventing nosocomial infections.

Prerequisite(s): none  
Corerequisite(s):none

### **HLT0211 Introduction to Medical Device Reprocessing**

Personnel working in medical device reprocessing areas need to adhere to principles and concepts unique to the healthcare environment. Students explore tenets of the Canadian healthcare system, regulatory bodies and standards of practice. Students learn concepts of ethical behaviour, confidentiality, quality assurance and risk management. Students explore role expectations in different medical device reprocessing areas and review effective work skills including conflict resolution, problem solving, stress and time management, customer service and teamwork in a client-centered healthcare setting.

Prerequisite(s): none  
Corerequisite(s):none

### **HLT0212 Medical Device Lab Skills 1**

Personnel working in medical device reprocessing areas must have strong customer service skills and organizational ability in order to handle and process a variety of items. Students practise communication and customer service skills using basic medical terminology. Students identify and handle different classifications of patient care equipment and medical devices. Students sort, wash, assemble and wrap basins and other patient care equipment while applying principles of WHMIS and ergonomic work principles.

Prerequisite(s): none  
Corerequisite(s):none

### **HLT0213 Medical Device Clinical 1**

Clinical practice provides the opportunity for integration of the theory and principles of sterile processing with hands-on practice. Under supervision, students acquire skills in the decontamination, assembly, sterilization and distribution areas in preparation to work in a medical device reprocessing area.

Prerequisite(s): none  
Corerequisite(s):none

**HLT0214 Surgical Instruments and Decontamination**

Identification and knowledge of the use of surgical instrumentation and equipment is essential to reprocessing. Students learn categories and names of instruments and how they are disassembled. Students review effective disinfection/decontamination processes, germicidal solutions and equipment required to disinfect/decontaminate patient care equipment and surgical instrumentation. Students learn functions, roles and responsibilities of the sterile supply technician in the decontamination area.

Prerequisite(s): none

Corerequisite(s):none

**HLT0215 Packaging and Sterilization**

Appropriate packaging and sterilization of reusable patient care items is essential for safe patient care. Students examine the purpose and importance of packaging, sterilization and handling of sterile supplies. Students also learn documentation and quality assurance monitoring processes.

Prerequisite(s): none

Corerequisite(s):none

**HLT0216 Inventory Management, Storage and Distribution**

Healthcare institutions purchase and borrow expensive medical devices from distributors and other facilities. This equipment must be properly inventoried and processed. Students explore policies and procedures of storage, distribution, inventory management and distribution. Students learn about quality control processes that must be followed when borrowing equipment.

Prerequisite(s): none

Corerequisite(s):none

**HLT0217 Endoscope Reprocessing**

Reprocessing personnel must have a thorough understanding of diagnostic and surgical endoscopes and follow standards of practice and healthcare facility policies in the reprocessing of this equipment. Students learn safety and infection control standards of practice in scope reprocessing and the importance of institutional policies. Through hands-on experiences students learn the mechanisms of endoscopic equipment. Students practise cleaning, disinfecting and sterilizing endoscopes with appropriate germicides, sterilants and equipment.

Prerequisite(s): none

Corerequisite(s):none

**HLT0218 Medical Device Lab Skills 2**

Personnel working in medical device reprocessing areas must understand the needs of various clinical settings, be able to operate sterilizing equipment and prepare supply carts. Students document and load carts for steam sterilization and practise loading other types of sterilizers. Students assemble case carts using health care facility procedural pick lists. Students also develop skills relating to interprofessional communication and workplace professionalism.

Prerequisite(s): HLT0212

Corerequisite(s):none

**HLT0219 Medical Device Clinical 2**

Possessing practical experience within the field prepares graduates for entry into the profession. Under supervision, students continue to develop skills in the decontamination, assembly, sterilization and distribution within a medical device reprocessing area.

Prerequisite(s): HLT0213

Corerequisite(s):none

**HLT0226 Anatomy and Physiology for Medical Device Reprocessing**

Basic comprehension of medical terminology, human anatomy and physiology is essential when working in patient care settings. Students learn basic anatomy and physiology in normal body structure and functioning. Proper use of medical terminology is practiced through verbal and written communication.

Prerequisite(s): none

Corerequisite(s):none