



St. Lawrence College

Controlled Environment Cultivation Program Outline

St. Lawrence College is presenting the Controlled Environment Cultivation program to help prepare you for employment in the field of controlled environment agriculture as it pertains to greenhouses and indoor farms growing food, pharmaceutical, and alternative crops. This eight-week program will provide you with the skills employers are looking for! You will graduate with well-rounded knowledge and training in controlled environment agriculture cultivation, communications, employability skills and health & safety.

Cultivation workers are involved in seeding, planting, harvesting, and maintaining of greenhouse and indoor grown food, fuel, fiber, and pharmaceutical crops. They offer skills in maintenance of growing equipment in both soil and hydroponic systems as well as a knowledge of water quality, fertilizers, and crop nutrition, as well as integrated pest management. Cultivation workers often work in indoor farms, vertical farms, and greenhouses that produce either food, cannabis, or ornamental crops.

Controlled Environment Agriculture Course (162 hours)

Controlled Environment Crops

CEA Production Methods

Environmental Management and Lighting

Integrated Pest Management

Greenhouse and Indoor Farm Design Considerations

Plant Propagation

Nutrients, Fertilizers and Water Quality

CEA Business Modelling

Health & Safety Awareness Training (3 hours)

The Occupational health and safety awareness training provides a basic understanding of the Occupational Health and Safety Act (OHSA), and does not replace any sector specific, hazard specific, or competency specific training.

WHMIS (3 hours)

WHMIS stands for Workplace Hazardous Materials Information System. WHMIS was designed to ensure the safety of employers and employees while at the workplace. In particular, the system was designed to keep workers and employers informed of the dangers and hazards associated with the chemicals and substances that they may come into contact with while on the job.

The key elements of WHMIS and WHMIS training are labeling of containers, the provision of material safety data sheets (MSDSs) and worker education/training programs.

Soft Skills (18 hours)

Soft skills increase confidence, build strong relationships, improve work performance, and helps students endure stress. Topics include Decision Making, Problem Solving, Critical Thinking, Emotional Intelligence, Flexibility, Adaptability, Self-Management, Conflict Resolution, Team Building, Sexual Assault, and Abuse.

Employability Skills (24 hours)

Each student will prepare a resume, targeted cover letter, prepare for an interview, practice interview skills and job maintenance.

To identify skills, attitudes & behaviors needed to enter, stay in, & progress in today's dynamic world of work and to apply those to the individual's own situation.

Professionalism-Work Ethics

Reviews and Reinforces:

- Attendance, Character, Teamwork
- Appearance, Attitude, Productivity
- Cooperation, Problem Solving, Respect
- Organization and Communication

Resume and cover letter for target job within office environment, research job opportunities, prepare and practice interview skills

Standard First Aid & CPR (12 hours)

Comprehensive two-day course offering first aid and cardiopulmonary resuscitation (CPR) skills for those who need training due to work requirements or who want more knowledge to respond to emergencies at home. Course meets legislation requirements for provincial/territorial worker safety and insurance boards and includes the latest first aid and CPR guidelines.

Mental Health First Aid (12 hours)

Mental Health First Aid Mental Health First Aid (MHFA) is a two-day training course, which is similar to Standard First Aid/CPR. MHFA gives you the knowledge and the skills to assist someone in a mental health crisis. This course comes with certification from the Mental Health Commission of Canada.

Certifications Awarded:

Students who successfully complete this course will receive a “Statement of Achievement” from St. Lawrence College.