

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Cambrian College (Sudbury)	<p>Energy Systems Technology (ESTY) 3 years</p> <p>K. Mina kameal.mina@cambriancollege.ca (705) 566-8101 ext. 7578 www.cambriancollege.ca</p>	<ul style="list-style-type: none"> * any grade 12 English (C, (U), or (M) * any grade 12 Math (C), (U), or (M) (MCT4C is highly recommended) <p>Recommended:</p> <ul style="list-style-type: none"> * any grade 12 Physics (C), (U), or (M) * any technology subjects (construction, manufacturing design, transportation) * computer competency in relevant software 	<p>The Energy Systems Technology program prepares students for employment in the sustainable energy field, with a focus on energy systems for residential and small commercial buildings. Students will study energy systems harnessing energy from renewable sources - sun, wind, water, geothermal heat, and biomass - in order to have a sustainable environment that will meet our present needs without compromising the ability of future generations to meet theirs. Topics on energy management, energy efficiency and energy conservation and sustainable building and development are also covered in the program.</p>	<p>Energy Designer Energy Modeler</p>
Canadore College	<p>Environmental Technician - Protection and Compliance 2 years (Environmental Technician - Protection and Compliance) program</p> <p>Derek M. Erickson Professor 705-474-7600 ext. 5236 derek.erickson@canadorecollege.ca</p>	<ul style="list-style-type: none"> * OSSD at or above the general level or its equivalent (GED or College and Career Prep) and Mature Students (MSS) * Grade 12 English is required. * Applicants aged 19 or over without the OSSD will be considered on the basis of their results on the College's Mature Student Test. 	<p>If you care about the environment and would like to make a difference, then this program is for you. The Environmental Technician program is designed to create well-trained and diversely skilled graduates who wish to pursue a career in the environmental industry. The job opportunities for a graduate of this program are plentiful on the provincial, national and global scale. A graduate from this program could choose to work in the field, in a laboratory or in an office setting.</p>	<p>Environmental Compliance Officer Health and Safety Officer Renewable Energy Technician</p>

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Centennial College (Toronto)	<p>Energy Systems Engineering Technology 2-3 years</p> <p>Robert Hellier Manager, Centennial Energy Institute energy@centennialcollege.ca (416) 289-5000 x8363 www.centennialcollege.ca</p>	<ul style="list-style-type: none"> * Compulsory English 12C or U or skills assessment, or equivalent * Math 11M or U, or 12C or U, or skills assessment, or equivalent * Semester and Graduation Requirements * Minimum C grade required for technologist graduation 	<p>Through the Energy Systems Engineering Technology program, Centennial College teaches you the fundamental skills to understand energy and its uses in modern society. The program offers a unique blend of technical, managerial and entrepreneurial skills that are highly sought after in modern energy and sustainable building companies. You can graduate as a technician after the first two years or continue onto paid work experience or follow a purely academic path to an advanced diploma.</p>	<p>Energy Consultant Green HVAC Specialist</p>
Durham College (Oshawa)	<p>Renewable Energy Technician and Energy Audit Techniques 2 years (Renewable Energy Technician) and/or 1 year (Energy Audit Techniques)</p> <p>www.durhamcollege.ca 905-721-2000</p>	<p>OSSD, GED, ACE (BTSD) or Mature Student Status (MSS) Plus senior level (Grade 11 or higher) subject credits:</p> <ul style="list-style-type: none"> * Grade 12 English * Grade 12 mathematics (college technology MCTC4C, general tech MTT4G) * Construction Technology TGJ4M and/or Manufacturing Technology TMJ4E and/or Technological Design TTJ4C recommended * Computer literacy skills recommended 	<p>The program is designed to meet the rapidly increasing demand for technicians with knowledge and skills in the renewable energy field. Graduates will be able to perform energy audits of new and existing homes; and assist in the installation and assembly of solar energy panels; geothermal heat pump systems; and wind turbines.</p> <p>After successful completion of year one of this program, students may elect to graduate with an Energy Audit Techniques Ontario College Certificate credential.</p>	<p>Energy Auditor Energy Consultant Green HVAC Specialist Renewable Energy Technician</p>

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
George Brown College (Toronto)	<p>Bachelor of Applied Technology – Construction and Environment: Regulations and Compliance (Co-op) 4-year degree program</p> <p>Centre for Advanced Building Technologies 416-415-5000 ext. 4398 www.georgebrown.ca/buildingtechnologies</p>	<p>Ontario Secondary School Diploma with:</p> <ul style="list-style-type: none"> * six grade 12 University (U) or University/College (M) courses, or equivalent * Grade 12 English (U) and grade 12 Mathematics (U) 	<p>The first of its kind in North America, this four-year degree program, with a mandatory co-op component, in the field of construction and environmental compliance prepares students for success in a new and emerging profession developing, implementing and enforcing regulatory frameworks and laws related to construction and environmental issues. Students learn how to interpret and apply the laws that protect our environment and make our buildings safe. They also learn to design and establish management systems to address public concern for safety and the environment, develop proactive procedures to implement the laws, regulations and new standards being imposed on both the public and the private sectors.</p>	<ul style="list-style-type: none"> • Building Inspector • City Planner • Environmental Officer • Sustainability Manager
George Brown College (Toronto)	<p>Heating, Refrigeration and Air Conditioning Technician Program 2 years</p> <p>George Brown School of Construction Management and Trades 416-415-5000 ext. 4398 e-mail: construction@georgebrown.ca</p>	<ul style="list-style-type: none"> • Ontario Secondary School Diploma (OSSD) or equivalent • Grade 11 math (M or U) or grade 12 (C or U) • Grade 12 English (C or U) 	<p>Over two years, you will gain solid skills and knowledge in design, operation and maintenance of environmental systems, in heating, ventilation, air conditioning and refrigeration (HVAC/R). The Heating, Refrigeration and Air Conditioning Technician program at George Brown College follows industry- standard design practices for environmentally responsible and energy-efficient residential, commercial and industrial systems, as established by the Heating, Refrigeration and Air Conditioning Institute (HRAI), the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the Canada Green Building Council (LEED certification).</p>	<ul style="list-style-type: none"> • Green HVAC Specialist Energy • Consultant

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Humber College (Toronto)	<p>Sustainable Energy & Building Technology (SEBT) program 3 years</p> <p>Kerry Johnston, Program Co-ordinator kerry.johnston@humber.ca 416 675 6622 ext. 4512</p>	<p>* Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status; * Grade 12 English (ENG4C or ENG4U) * Grade 12 Mathematics (MAP4C, MCT4C, MDM4U, MCB4U, MGA4U, MCV4U or MHF4U); * Two Grade 11 or Grade 12 C, U or M courses in addition to those listed above</p>	<p>The three-year, multidisciplinary program will position you to work effectively with other professionals in providing truly integrated solutions in the sustainable technologies sectors that deal with energy efficiency and renewable energy. You will be able to assess site characteristics and client needs, provide advice on renewable energy, building design and heating/cooling system alternatives, prove energy efficiency through energy audits and energy performance simulation, cost the energy system and select appropriate suppliers and contractors.</p>	<ul style="list-style-type: none"> • Energy Auditor • Energy Consultant • Energy Manager
Lambton College (Sarnia)	<p>Alternative Energy Engineering Technology 3 years</p> <p>School of Technology, Applied Sciences, Apprenticeship & Fire Science 519-541-2444 -or- Information Office 519-541-2436 info@lambton.on.ca</p>	<p>O.S.S.D. or equivalent with: * Grade 12 English C or U * Grade 12 Mathematics C or U * Grade 11 or Grade 12 Physics C or U * Grade 11 or Grade 12 Chemistry, recommended but not required.</p>	<p>The Alternative Energy Engineering Technology Program is a three year program with a co-op component that provides students with a combination of theory and application skills in current and emerging energy technologies. Graduates will deal with the integration of current energy sources along with newly developing alternative green energy sources and distribution systems. These specialists will be given the technical and applied knowledge in renewable energy concepts combined with energy efficient design principals. Basic computer skills are recommended.</p>	<ul style="list-style-type: none"> • Energy Auditor • Project Engineer

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Mohawk College of Applied Arts and Technology (Hamilton)	<p>Energy Systems Engineering Technology – Clean and Renewable Energy</p> <p>3 Year Advanced Diploma</p> <p>www.mohawkcollege.ca 905-575-1212</p>	<p>OSSD or equivalent (GED, College and Career Preparation) including:</p> <ul style="list-style-type: none"> * Grade 12 English, C or U or equivalent * Grade 12 Mathematics, C (Math for College Technology is recommended) or U, or Mohawk College Prep Math for Technology or equivalent 	<p>Students will focus on clean energy and renewable energy sources including wind, bioenergy, hydro power, solar/photovoltaic, solar thermal, geothermal, strategies for conservation and clean energy supported by micro grids and distributed energy systems. This program is unique in introducing a multi disciplinary approach that focuses on the generation, capture, storage, and distribution of clean and renewable energy and their integration with conventional systems</p>	<ul style="list-style-type: none"> • Green Construction and Design • Green Electrician • Green HVAC Specialist • Solar PV Manufacturer
Niagara College	<ul style="list-style-type: none"> * Environmental Technician-Field and Laboratory (Co -op) 2 year program Graduate Certificates – 1 year program <p>Graduate Programs:</p> <ul style="list-style-type: none"> * Ecosystem Restoration * Environmental Management and Assessment * Geographic Information Systems- Geospatial Management <p>Martin Smith, B.Sc., M.Sc. Co-ordinator Tel: 905-641-2252, ext. 4075 Email: enviro@niagaracollege.ca</p>	<ul style="list-style-type: none"> * Ontario Secondary School Diploma (OSSD), or equivalent, or 19 years of age or older as of the first day of classes, with no OSSD or equivalent (Mature Student) including the following required courses: * English – any Grade 12 (C) or (U), or equivalent. * Mathematics – any Grade 12 (C) or (U), or equivalent. <p>Recommended Courses and/or Recommended Skills (Not Required for Admission):</p> <ul style="list-style-type: none"> * Biology – Grade 11 (C) or (U) or Grade 12 (U). * Chemistry – Grade 11 (U) or Grade 12 (C) or (U) 	<p>Hands-on training includes co-op experience, practical exercises in on-campus environmental labs and on the college grounds, and off-campus lab sessions and field trips.</p> <p>Graduates of the Environmental Technician program can pursue graduate certificates in:</p> <ul style="list-style-type: none"> * Ecosystem Restoration * Environmental Management and Assessment * Geographic Information Systems- Geospatial Management 	<ul style="list-style-type: none"> • Air Monitoring Technicians • Environmental Consultants • Environmental Field Technicians • Environmental Lab Technicians • Field Supervisors • Plant Operators • Research Assistants • Water/Wastewater Treatment

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Northern College	<p>Environmental Technician - Water and Wastewater Systems Operations 2 year program</p> <p>Richard Kallio Program Coordinator 705-567-9291 ext. 705 kallior@northern.on.ca</p>	<p>Ontario Secondary School Diploma (OSSD) Grade 12 English (C, M, U) Grade 12 Math (C, M, U) (MCT4C preferred; MAP4C is accepted with a minimum GPA of 60%)</p>	<p>Legislation requires that all operators of municipal water and wastewater treatment plants be certified. This program will give students the necessary knowledge and training to prepare them for the Class I Certification examinations in water and wastewater plant operations.</p>	<ul style="list-style-type: none"> • Environmental Consultants • Solid Waste Management • Water And Wastewater • Technologist
Seneca College	<p>Environment and Site Remediation (ESR) 4 year Bachelor of Applied Technology</p> <p>Nadia Kelton Telephone: (416) 491-5050 Ext. 6659 Email: nadia.kelton@senecac.on.ca Jonathan Hunt Telephone: (416) 491-5050 Ext. 2521 Email: jonathan.hunt@senecac.on.ca</p>	<p>OSSD with a majority of senior credits at the University Preparation (U) or University/College Preparation (M) level or Mature Student Status (age 19 or older) * Six Grade 12 (U) or (M) courses with a minimum 65% average including Grade 12 English, Grade 12 Mathematics, Grade 12 Chemistry, One additional Grade 12 (U) Science credit</p> <p>Recommended Courses: * One other Grade 12(U) Mathematics: MCV4(U) strongly recommended * One other Grade 12(U) Science</p>	<p>This ground-breaking program examines all aspects of site contamination including scientific evaluation, property assessment and sustainable redesign. Graduates will be knowledgeable professionals and major participants in a field providing significant local and international opportunity. Over 40% of developed land world-wide is considered to be polluted in some form. You will be a leader in developing strategies for its remediation and re-use in environmentally sustainable ways.</p>	<ul style="list-style-type: none"> • Environmental Project Manager • Environmental Site Assessor • Remediation Technologist/Specialist

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Seneca College (Toronto)	<p>Photovoltaic (PV) Technician Program combined distance learning and in-class study</p> <p>Centre for the Built Environment, Seneca College energy.training@senecac.on.ca 1-800-572-0712 http://eto.senecac.on.ca/photovol.html</p>	contact Program Administrator	Seneca College, in partnership with CanSIA, offers an eleven-part training program for people who want to become professionally trained in the design and installation of solar photovoltaic (PV) systems. The program provides a comprehensive understanding of related electric theory and the fundamentals of PV systems. By a combination of individualized distance learning and in-class study, students will learn the theory and practice required to use and install a solar electric system.	<ul style="list-style-type: none"> • PV Solar Design • PV Solar Installer
Sir Sanford Fleming College	<p>Environment Technician Environmental Technologist 2 years (technician) or 3 years (technologist)</p> <p>Stephen Thompson stevthom@flemingc.on.ca 1-866-353-6464 ext. 3263</p>	<p>OSSD with the majority of credits at the College (C) and Open (O) level, including:</p> <ul style="list-style-type: none"> * 2 College (C) English courses (Grade 11 or Grade 12) * 2 College (C) Math courses (Grade 11 or Grade 12) 	As an Environmental Technician, you will work to prevent environmental problems, resolve environmental issues when necessary, and provide education to the public.	<ul style="list-style-type: none"> • Environmental Officer • Environmental Technician • Groundwater Technician • Soil/terrain Specialist • Water Quality Technician • Watershed Technician

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Sir Sanford Fleming College (Haliburton)	<p>Sustainable Building Design and Construction 20-week course **course workload is equivalent to a three-semester (45 week) program</p> <p>Chris Magwood cmagwood@flemingc.on.ca 1-866-353-6464 Wwww.flemingc.on.ca</p>	<p>OSSD with the majority of credits at the College (C) and Open (O) level, including: * 2 College (C) English courses (Grade 11 or Grade 12) * Or a current Certificate of Qualification as a Carpenter - General.</p>	<p>Students will gain skills in the design of structures using green, natural or sustainable building methods, technologies, materials and renewable energy resources. Students will have the opportunity to apply, practice, and enhance what they learn in the classroom to real-world situations via the hands-on construction of a sustainable building.</p>	<ul style="list-style-type: none"> • Green Building Construction and Design
St Lawrence College (Kingston)	<p>Energy Systems Engineering Technician and Technology Program 2 years (technician) or 3 years (technologist)</p> <p>Steve Lapp, M.Sc. P.Eng. Coordinator - Energy Systems Engineering Technician (ESET) and Technology Program slapp@sl.on.ca (613) 544-5400 ext. 1528</p>	<p>Ontario Secondary School Diploma or equivalent with the following prerequisite: * Grade 12 Math at the C or U level (or MCR3U or MCF3M) The majority of Grade 11 and 12 courses must be college or university preparation level.</p>	<p>Unique to St. Lawrence College is Energy House, the site of the Energy Systems Engineering Technology and Technician practical laboratories in renewable energy. Opened in Fall 2005, this off-grid training facility offers a comprehensive selection of renewable energy equipment for hands-on training in solar thermal and photovoltaic, ground source heat pump, small wind, solar air heating, and other sustainable energy technologies.</p>	<ul style="list-style-type: none"> • Energy Auditor • Solar PV Installer • Solar Thermal Installer

Green Education and Training Programs by Program Title

	Program Title	Pre-requisites	Program Name	Green Jobs
St. Clair College	Energy Systems Design Technology 3 Year Advanced Diploma Bill White (519) 972-2727, ext. 4927 email: wwwhite@stclaircollege.ca	OSSD with the majority of courses at the College (C), University (U), University/College (M) or Open (O) level plus * Grade 12 Math (C) or (U) * Senior Level Physics (C) or (U)	This new program is the first of its kind to be offered in Ontario. It will prepare graduates for careers in energy utilization with a focus on the efficient application, design, control and management of energy conversion systems for industry, buildings and transportation	<ul style="list-style-type: none"> • Energy Manager • Environmental Consultant • Industrial Design Engineer • Renewable Energy Technician