

powering sarnia lambton's green economy



GREEN
OCCUPATIONAL
Profiles





SARNIA LAMBTON WORKFORCE DEVELOPMENT BOARD

CATALYSTS FOR LABOUR MARKET CHANGE

Vision: Growing Sarnia Lambton's workforce for tomorrow's economy.

Mission: To identify needs and facilitate solutions to attract, train and retain a viable workforce through community partnerships.

The Sarnia Lambton Workforce Development Board (SLWDB) is one of 25 local planning boards mandated through the Ontario Ministry of Training, Colleges and Universities to conduct and disseminate local labour market research and engage community stakeholders in a planning process that supports local solutions to local issues.

ACKNOWLEDGEMENTS

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EMPLOYMENT ONTARIO

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What are Green Collar Jobs?

Green collar jobs are occupations that facilitate the reduction of waste and pollution, improve the environment, and pay a livable wage with benefits that can support a family and offer potential for upward mobility. According to the United Nations Environmental Programme (UNEP), the demand for green careers will affect employment in various industries in at least four ways: job creation, job substitutions, job elimination without direct replacement, and job transformation as current skill sets are redefined according to “green” demands.

What is in the profile?

There are 41 Green occupation profiles for Sarnia Lambton listed in the report. Each profile includes:

- Description of occupation
- Total # of workers in Sarnia Lambton
- # of people employed in this occupation in Sarnia Lambton
- % of people employed in Sarnia Lambton
- % of occupations in Sarnia Lambton’s employed workforce
- Age profile of people who work in Sarnia Lambton in this occupation
- Median income from persons in this occupation in Sarnia Lambton
- # of people in Sarnia Lambton’s employed workforce
- Top 3 industrial sectors based on full time employment in Sarnia Lambton
- Job loss/gain information
- This occupation may also be called
- Employment prospects
- Employment requirements
- Working conditions
- Links:
 - Professional associations
 - Local education & training programs
 - Essential skills
 - Work habits
 - Local employers

What is a NOC?

The National Occupational Classification (NOC) is the nationally accepted reference on occupations in Canada. It organizes over 30,000 job titles into 520 occupational group descriptions. It is used daily by thousands of people to compile, analyze and communicate information about occupations, and to understand the jobs found throughout Canada's labour market.

The NOC provides a standardized framework for organizing the world of work in a coherent system. It is used to collect and organize occupational statistics and to provide labour market information. The structure and content of the NOC is also implemented in a number of major services and products throughout the private and public sectors.

The NOC is updated in partnership with Statistics Canada according to 5-year Census cycles. It is based on extensive occupational research and consultations conducted across the country, reflecting the evolution of the Canadian labour market.

The major groups include:

- 0 Management Occupations
- 1 Business, Finance and Administration Occupations
- 2 Natural and Applied Sciences and Related Occupations
- 3 Health Occupations
- 4 Occupations in Social Science, Education, Government Service and Religion
- 5 Occupations in Art, Culture, Recreation and Sport
- 6 Sales and Service Occupations
- 7 Trades, Transport and Equipment Operators and Related Occupations
- 8 Occupations Unique to Primary Industry
- 9 Occupations Unique to Processing, Manufacturing and Utilities

List of Resources

- Human Resources and Skills Development Canada
www.hrsdc.gc.ca
- Workforce Planning Ontario
www.workforceplanningontario.ca
- Working in Canada, Government of Canada
www.workinginCanada.gc.ca
- Ontario Job Futures, Ministry of Training, Colleges and Universities
www.tcu.gov.on.ca
- Ontario Skills Passport
www.skills.edu.gov.on.ca
- O*NET Online
www.onetonline.org

Agricultural and Related Service Contractors and Managers

NOC 8252-B

Occupation Description

Contractors and managers in this unit group operate establishments that provide agricultural services such as livestock and poultry breeding, soil preparation, crop planting, crop spraying, cultivating or harvesting.

Total Number of Workers in Sarnia Lambton 20

Number of People Employed in this Occupation in Sarnia-Lambton

No information available at this time.

% of People Employed in Sarnia Lambton in this Occupation

No information available at this time.

% of Occupations in Sarnia Lambton's Employed Workforce 0.03%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia-Lambton

No information available at this time.

Number of People in Sarnia Lambton's Employed Workforce 20

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

No information available at this time.

Job Loss/Gain Information

No information available at this time.

This Occupation May Also Be Called:

- artificial inseminator
- crop dusting contractor
- livestock breeding service manager
- manager, artificial insemination service
- manager, crop harvesting service.

Employment Prospects

No information available at this time.

Employment Requirements

- Several years of experience related to the agricultural service offered are usually required.
- Contractors and managers providing certain services, such as artificial insemination and pesticide application, may require training certificates and provincial licensing.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8252&province=35&titleKeyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8252&province=35&titleKeyword=&action=final&display=training
- ❖ **Essential Skills**
No information available at this time.
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8252&province=35&titleKeyword=&action=final&display=job

Agrologist

NOC 2123-A

Occupation Description

Agricultural representatives, consultants and specialists provide assistance and advice to farmers on all aspects of farm management, cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They are employed by businesses, institutions and governments that assist the farming community or they may be self-employed.

Total Number of Workers in Sarnia Lambton 30

Number of People Employed in this Occupation in Sarnia-Lambton 10

% of People Employed in Sarnia Lambton in this Occupation

No information available at this time.

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.05%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia-Lambton

No information available at this time.

Number of People in Sarnia-Lambton’s Employed Workforce 30

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

No information available at this time.

Job Loss/Gain Information -50%

This Occupation May Also Be Called:

- agricultural consultant
- agricultural extension supervisor
- agricultural livestock specialist
- agricultural representative
- agricultural soil and crop specialist
- agriculturist
- agronomist
- consulting agrologist
- crop specialist
- farm management consultant
- field service agent
- grower's advisor
- professional agrologist (P.Ag.).

Employment Prospects

No information available at this time.

Employment Requirements

- A bachelor's or master's degree in agriculture or in a related science is required.
- Membership or eligibility for membership in a provincial institute of agrology is usually required.
- In Quebec, membership in the professional corporation for agrologists is mandatory.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2123&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2123&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2123&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2123&province=35&keyword=&action=final&display=job

Biological Technologists and Technicians

NOC 2221-B

Occupation Description

Biological technologists and technicians provide technical support and services to scientists, engineers and other professionals working in fields such as agriculture, resource management, environmental protection, plant and animal biology, microbiology, cell and molecular biology and health sciences, or may work independently in these fields. They are employed in both laboratory and field settings by governments, manufacturers of food products, chemicals and pharmaceuticals, biotechnology companies, health, research and educational institutions, environmental consulting companies and resource and utilities companies.

Total Number of Workers in Sarnia Lambton

No information available at this time.

Number of People Employed in this Occupation in Sarnia-Lambton

No information available at this time.

% of People Employed in Sarnia Lambton in this Occupation

No information available at this time.

% of Occupations in Sarnia –Lambton’s Employed Workforce

No information available at this time.

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia-Lambton

No information available at this time.

Number of People in Sarnia-Lambton’s Employed Workforce

No information available at this time.

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

No information available at this time.

Job Loss/Gain Information

No information available at this time.

This Occupation May Also Be Called:

- agricultural technician
- agricultural technologist
- agrology technician
- aquaculture technician
- bacteriological technician
- biological laboratory technologist
- botanical technician
- fish hatchery technician
- fisheries technician
- food bacteriological technician
- microbiology quality control technologist
- microbiology technologist (except medical)
- plant breeding technician
- seed technologist
- wildlife biology technician.

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Ontario has a vibrant biotechnology sector with strengths in the bio-medical, pharmaceutical, medical devices, agricultural-biotechnology and biomaterials field. The number of new graduates should meet industry needs. Businesses in Canada have turned to foreign workers in times of economic boom, to fill labour shortages. During an economic downturn however, large job losses can occur since biotech companies are highly dependent on well-functioning capital markets and are vulnerable to market slowdowns.

Computer-based competencies such as bioinformatics and molecular modelling are becoming more important as companies and researchers deal with the integration of traditional and information sciences. Co-op programs are the preferred approach for many companies. In Ontario, the focus is on biosciences/life sciences, pharmaceutical medical devices, human health and the environment. People who work in these occupations require ongoing retraining and professional development to keep abreast of new information and changing technology. Increasingly, individuals in this field will require certification at a Masters or PhD level. Candidates with strong business and project management skills will have the best job prospects in a tight labour market.

Employment Requirements

- Completion of a two- to three-year college program in a field related to agriculture, biology, microbiology, wildlife or resource management is usually required for employment as a biological technologist.
- Completion of a one- to two-year college program in a related field is required for employment as a biological technician.
- Certification with provincial associations is available, but voluntary.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2221&province=35&titleKeyword=Biological&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2221&province=35&titleKeyword=Biological&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2221&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2221&province=35&titleKeyword=Biological&action=final&display=job

Chemical Technologists and Technicians

NOC 2211-B

Occupation Description

Chemical technologists and technicians provide technical support and services or may work independently in chemical engineering, chemical and biochemical research and analysis, industrial chemistry, chemical quality control and environmental protection. They are employed by research and development and quality control laboratories, consulting engineering companies, in chemical, petrochemical, pharmaceutical and a variety of other manufacturing and processing industries, and by utilities, health, education and government establishments.

Total Number of Workers in Sarnia Lambton 495

Number of People Employed in this Occupation in Sarnia-Lambton 420

% of People Employed in Sarnia Lambton in this Occupation

Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	22.6%
Scientific Research and Development Services	NAICS 5417	16.7%
Petroleum and Coal Products Manufacturing	NAICS 3241	14.3%
Basic Chemical Manufacturing	NAICS 3251	7.1%
Management, Scientific and Technical Consulting Services	NAICS 5416	6%
Waste Treatment and Disposal	NAICS 5622	6%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.7%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	25	5.9%
25 to 44 years	130	30.6%
45 to 64 years	270	63.5%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$88,325

Number of People in Sarnia-Lambton’s Employed Workforce 455

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	230	54.8%
54	Professional, scientific and technical services	105	25%
56	Administrative and Support, Waste Management and Remediation Services	40	9.5%

Job Loss/Gain Information

-20%

This Occupation May Also Be Called:

- analytical technician
- chemical, biochemistry technologist
- chemical analyst
- chemical engineering technician
- chemical engineering technologist
- chemical laboratory analyst
- chemical research technician
- chemical technician
- chemical technologist
- food technologist
- formulation technician
- geochemical technician
- industrial hygiene technologist
- mass spectrometer technician
- master dyer – textiles
- paint technician
- pilot plant technician
- quality control technician – chemical processing
- quality control technician – food processing

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Demand for chemical technologists and technicians increases as chemical companies research and develop new chemicals and make more efficient use of existing chemicals. However, in an economic downturn, less money is allocated for research and development, which could moderate employment growth in this occupation.

As technology changes, people in these occupations will have to undergo periods of retraining and professional development. Increasingly, they will also have to obtain certification in their field.

Employment Requirements

- Chemical technologists usually require completion of a two- or three-year college program in chemical, biochemical or chemical engineering technology or a closely related discipline.
- Chemical technicians usually require completion of a one- or two-year college program in chemical, biochemical or chemical engineering technology.
- National certification for chemical technologists and technicians is available through the Canadian Society for Chemical Technology.

- Certification in chemical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.
- A period of supervised work experience, usually two years, is required before certification.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2211&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2211&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2211&province=35&keyword=&action=final&display=job

Construction Inspector and Tester

NOC 2264-B

Occupation Description

Construction inspectors inspect the construction and maintenance of new and existing buildings, bridges, highways and industrial construction to ensure that specifications and building codes are observed and monitor work site safety. They are employed by federal, provincial and municipal governments, construction companies, architectural and civil engineering consulting firms or they may be self-employed.

Total Number of Workers in Sarnia Lambton 55

Number of People Employed in this Occupation in Sarnia-Lambton 25

% of People Employed in Sarnia Lambton in this Occupation

Non-residential Building Construction	NAICS 2362	40%
Other Specialty Trade Contractors	NAICS 2389	40%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.1%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	10	50%
45 to 64 years	10	50%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$36,294

Number of People in Sarnia-Lambton’s Employed Workforce 60

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	15	43%
54	Professional, Scientific and Technical Services	10	28.5%
91	Public Administration	10	28.5%

Job Loss/Gain Information

-16%

This Occupation May Also Be Called:

- bridge inspector
- building construction inspector
- construction inspector
- highway construction inspector
- home inspector
- housing construction inspector
- mine inspector – construction
- plumbing inspector
- pre-stressed concrete inspector
- safety officer – construction.

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of secondary school is required.
- College diploma in construction, civil engineering or architectural technology plus several years of related work experience , OR
- Several years of experience as a qualified tradesperson in a construction trade, such as plumbing, carpentry or electrical trade are required.
- Provincial certification in a skilled trade or as an engineering technologist is usually required.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2264&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2264&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2264&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2264&province=35&keyword=&action=final&display=job

Construction Managers

NOC 0711-0

Occupation Description

Construction managers plan, organize, direct, control and evaluate the activities of a construction company or a construction department within a company, under the direction of a general manager or other senior manager. They are employed by residential, commercial and industrial construction companies and by construction departments of companies outside the construction industry.

Total Number of Workers in Sarnia Lambton 255

Number of People Employed in this Occupation in Sarnia-Lambton 165

% of People Employed in Sarnia Lambton in this Occupation

Residential Building Construction	NAICS 2361	21.2%
Highway, Street and Bridge Construction	NAICS 2373	12%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	12%
Foundation, Structure, and Building Exterior Contractors	NAICS 2381	9%
Meteorological Technicians	NAICS 2213	6%
Utility System Construction	NAICS 2371	6%
Land Subdivision	NAICS 2372	6%
Other Specialty Trade Contractors	NAICS 2389	6%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.4%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	50	36%
45 to 64 years	90	64%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$73,407

Number of People in Sarnia-Lambton’s Employed Workforce 255

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	95	57.5%
31-33	Manufacturing	25	15%
22	Utilities	10	6%

Job Loss/Gain Information

-3%

This Occupation May Also Be Called:

- commercial construction manager
- construction manager
- construction superintendent
- general contractor
- housing construction manager
- industrial construction manager
- pipeline construction manager
- project manager
- residential construction manager

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Activity in the construction sector tends to move up and down as a reflection of cycles in economic activity. However, many construction managers remain employed even in downturns, to bid on contracts, estimate costs of future construction projects and plan schedules. In addition, many job openings will be created each year from the need to replace workers who retire.

Advances in building materials, the development of electronically operated "smart" buildings and the proliferation of new building standards will make the work of construction managers more complex. Persons with a bachelor's degree in construction science, construction management or civil engineer and expertise in building technology with strong managerial skills will face the best opportunities.

Employment Requirements

- A university degree in civil engineering or a college diploma in construction technology is usually required.
- A master's degree in project management may be required.
- Several years of experience in the construction industry, including experience as a construction supervisor or field superintendent, are usually required.
- Extensive experience in the construction industry may substitute for post-secondary education requirements.
- Professional engineering status or construction trade certification may be required by some employers.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0711&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0711&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
No information available at this time.
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0711&province=35&keyword=&action=final&display=job

Contractors, Supervisors, Other Construction Trades, Installers, Repairers, and Servicers

NOC 7219-B

Occupation Description

This unit group includes roofing, masonry, painting and other construction trade contractors, not elsewhere classified, who own and operate their own business. Supervisors in this unit group supervise and co-ordinate the activities of various tradespersons, installers, repairers and servicers classified in the following minor groups: *Masonry and Plastering Trades (728)*, *Other Construction Trades (729)* and *Other Installers, Repairers and Servicers (744)*. They are employed by a wide range of establishments; places of employment are indicated in the unit group descriptions. This unit group also includes prefabricated product installation and service contractors and proprietors of some repair and service establishments.

Total Number of Workers in Sarnia Lambton 105

Number of People Employed in this Occupation in Sarnia-Lambton 55

% of People Employed in Sarnia Lambton in this Occupation

Building Finishing Contractors	NAICS 2383	58%
Non-residential Building Construction	NAICS 2362	14%
Building Material and Supplies Dealers	NAICS 4441	14%
Architectural, Engineering and Related Services	NAICS 5413	14%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.16%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	15	27%
45 to 64 years	40	73%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$65,933

Number of People in Sarnia-Lambton’s Employed Workforce 100

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	45	69%
44-45	Retail Trade	10	15%
54	Professional, Scientific and Technical Services	10	15%

Job Loss/Gain Information

-38%

This Occupation May Also Be Called:

- bricklaying contractor
- cement finishing contractor
- foreman/woman, glaziers
- foreman/woman, insulators
- foreman/woman, plasterers
- painting contractor
- pest control supervisor
- roofing contractor, supervisor
- bicycle repair shop, supervisor
- painters and decorators, supervisor
- tilesetters.

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of secondary school is usually required.
- Several years of experience in the trade or in the work area supervised are usually required.
- Journeyman/woman trade certification may be required for some occupations in this unit group.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7219&province=35&keyword=&action=final&display=union

❖ Local Education & Training Programs:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7219&province=35&keyword=&action=final&display=training

❖ Essential Skills

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7219&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7219&province=35&keyword=&action=final&display=job

Customer Service, Information and Related Clerks

NOC 1453-C

Occupation Description

This unit group includes clerks who answer enquiries and provide information regarding an establishment's goods, services and policies and who provide customer services such as receiving payments and processing requests for services. They are employed by retail establishments, call centres, insurance, telephone and utility companies and other establishments throughout the private and public sectors.

Total Number of Workers in Sarnia Lambton 1025

Number of People Employed in this Occupation in Sarnia-Lambton 865

% of People Employed in Sarnia Lambton in this Occupation

Business Support Services	NAICS 5614	57%
Wireless Telecommunications	NAICS 5172	5%
Traveller Accommodation	NAICS 7211	4.6%

% of Occupations in Sarnia –Lambton's Employed Workforce 1.5%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	285	33%
25 to 44 years	365	42%
45 to 64 years	215	25%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$21,159

Number of People in Sarnia-Lambton's Employed Workforce 930

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
56	Administration and Support, Waste Management and Remediation Services	535	62%
51	Information and Cultural Industries	75	8%
41	Wholesale Trade	65	7.5%

Job Loss/Gain Information

59%

This Occupation May Also Be Called:

- accounts information clerk
- bus information clerk
- call centre agent – customer service
- complaints clerk – customer service
- counter enquiries clerk
- courtesy desk clerk
- customer service clerk
- customer service representative – call centre
- enquiries clerk
- hospital information clerk
- information clerk – customer service
- lost-and-found clerk
- order desk agent
- public relations clerk
- tourist information clerk

Employment Prospects

Over the next five years: Good

Opportunities for employment in this occupation are expected to be good over the period from 2009 to 2013. The rise in the number of call centres has contributed to above average job growth for this occupation. However, the trend towards centralization of corporate information functions through telecentres, often located in lower-cost areas of the country, or the world, may negatively affect employment opportunities in the future. Nevertheless, replacement needs are expected to be significant as many young people work as customer service representatives for a few years before switching to other, higher paying jobs.

A growing number of customer self-help applications are being used to process basic transactions, increasing the complexity of customer inquiries directed to customer contact centre agents.

Consequently, those who can work in a highly integrated, multi-channel environment and deal with more complex customer inquiries will have the best job prospects.

Employment Requirements

- Completion of secondary school is usually required.
- Completion of some college or other post-secondary programs may be required.
- Clerical or sales experience may be required.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=1453&province=35&keyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=1453&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=1453&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=1453&province=35&keyword=&action=final&display=job

Director of Waste Management

NOC 0912-0

Occupation Description

This unit group includes managers who plan, organize, direct, control and evaluate the operations of utility companies or services or of heating oil distribution companies. The services provided include the distribution of water, electricity, natural gas and heating oil to residential, commercial and industrial consumers, waste disposal and waste recycling. Utilities managers are employed in public and private sector utilities and in heating oil distribution companies.

Total Number of Workers in Sarnia Lambton 55

Number of People Employed in this Occupation in Sarnia-Lambton 60

% of People Employed in Sarnia Lambton in this Occupation

Electric Power Generation	NAICS 2211	33%
Natural Gas Distribution	NAICS 2212	25%
Waste Treatment and Disposal	NAICS 5622	16%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.09%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	30	60%
45 to 64 years	20	40%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$80,175

Number of People in Sarnia-Lambton’s Employed Workforce 55

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	30	55%
56	Administration and Support, Waste Management and Remediation Services	15	25%
54	Professional, Scientific, Technical Services	10	16%

Job Loss/Gain Information

-7.7%

This Occupation May Also Be Called:

- utilities manager
- director of water pollution control
- director, distribution systems – utilities
- director, electrical power transmission operations
- director, water supply
- electric power plant manager
- liquid waste facility manager,
- refined petroleum products, manager
- electric generating plant, manager
- gas supply operations, manager
- sewage treatment plant manager
- water filtration plant manager.

Employment Prospects

No information available at this time.

Employment Requirements

- A bachelor's degree or college diploma in an appropriate discipline is required. For example, electrical engineering is required for managers of transmission lines, and water resource technology for water supply managers.
- Several years of experience as a supervisor in a related utilities operations department are required.
- Professional engineer certification is usually required for managers of utility operations involved in the transmission and distribution of electrical power, and natural gas and heating oil.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0912&province=35&keyword=&action=final&description=hide

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0912&province=35&keyword=&action=final&display=training

Essential Skills

No information available at this time.

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0912&province=35&keyword=&action=final&display=job

Director of Environment, Health and Safety

NOC 2263-B

Occupation Description

Inspectors in this unit group evaluate and monitor health and safety hazards and develop strategies to control risks in the workplace. They inspect restaurants, public facilities, industrial establishments, municipal water systems and other workplaces to ensure compliance with government regulations regarding sanitation, pollution control, the handling and storage of hazardous substances and workplace safety. They are employed throughout the private and public sectors.

Total Number of Workers in Sarnia Lambton 170

Number of People Employed in this Occupation in Sarnia Lambton 190

% of People Employed in Sarnia Lambton in this Occupation

Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	13.2%
Local, Municipal and Regional Public Administration	NAICS 9130	10.5%
Management, Scientific and Technical Consulting Services	NAICS 5416	7.9%
Remediation and Other Waste Management Services	NAICS 5629	7.9%
Non-residential Building Construction	NAICS 2362	5.3%
Foundation, Structure, and Building Exterior Contractors	NAICS 2381	5.3%
Building Equipment Contractors	NAICS 2382	5.3%
Fruit and Vegetable Preserving and Specialty Food Manufacturing	NAICS 3114	5.3%
Basic Chemical Manufacturing	NAICS 3251	5.3%
Architectural, Engineering and Related Services	NAICS 5413	5.3%
Employment Services	NAICS 5613	5.3%
Out-Patient Care Centres	NAICS 6214	5.3%
Business, Professional, Labour and Other Membership Organizations	NAICS 8139	5.3%
Federal Protective Services	NAICS 9112	5.3%
Provincial and Territorial Public Administration	NAICS 9120	5.3%

% of Occupations in Sarnia Lambton's Employed Workforce 0.3%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	95	50%
45 to 64 years	95	50%
65 + years	0	0%

**Median Income from Persons in this Occupation
in Sarnia Lambton**

\$61,720

**Number of People in Sarnia Lambton's
Employed Workforce**

175

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	55	28.9%
91	Public Administration	40	21.1%
23	Construction	25	13.2%

Job Loss/Gain Information

28.9%

This Occupation May Also Be Called:

- environmental health officer
- hazardous waste inspector
- health and safety officer
- health standards inspector
- occupational health and safety officer
- pollution control inspector
- public health inspector
- restaurant inspector
- rodent control inspector
- supervisor
- public health inspectors
- water inspector

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Much job growth will result from a continued need to evaluate and monitor the health and safety hazards and the quality of the environment, and to develop strategies to control risks in the workplace. In addition to openings due to growth, job opportunities will be created each year from the need to replace workers who retire. The work in this field is moderately seasonal but not very sensitive to overall economic conditions.

The increase of industry self-regulation in environment and public health areas may impact professionals who work in these fields. Inspectors and officers in these fields may find increasing employment opportunities in private industry.

Employment Requirements

- A bachelor's degree or college diploma in a discipline such as food science, environmental studies, chemistry or health and safety is usually required.
- In some establishments, several years of related work experience and the completion of in-house training courses may substitute for formal education.
- Public health inspectors employed outside of Quebec require certification with the Canadian Institute of Public Health Inspectors.
- Occupational health and safety officers may require certification with the Association for Canadian Registered Safety Professionals.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2263&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2263&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

No information available at this time.

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2263&province=35&keyword=&action=final&display=job

Drafting Technologists and Technicians

NOC 2253-B

Occupation Description

Drafting technologists and technicians prepare engineering designs, drawings and related technical information, in multidisciplinary engineering teams or in support of engineers, architects or industrial designers, or they may work independently. They are employed by consulting and construction companies, utility, resource and manufacturing companies, all levels of government and by a wide range of other establishments.

Total Number of Workers in Sarnia Lambton 150

Number of People Employed in this Occupation in Sarnia Lambton 145

% of People Employed in Sarnia Lambton in this Occupation

Architectural, Engineering and Related Services	NAICS 5413	58.6%
Natural Gas Distribution	NAICS 2212	6.9%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	6.9%
Architectural and Structural Metals Manufacturing	NAICS 3323	6.9%
Other Miscellaneous Manufacturing	NAICS 3399	6.9%
Employment Services	NAICS 5613	6.9%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	65	46.4%
45 to 64 years	65	46.4%
65 + years	10	7.1%

Median Income from Persons in this Occupation in Sarnia Lambton \$49,522

Number of People in Sarnia Lambton's Employed Workforce 150

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
54	Professional, scientific and technical services	85	58.6%
31-33	Manufacturing	35	24.1%
22	Utilities	10	6.9%

Job Loss/Gain Information

-17.1%

This Occupation May Also Be Called:

- architectural draftsman
- computer-assisted design and drafting technologist
- computer-assisted drafting (CAD) technician
- design and drafting technologist
- drafting technician
- drafting technologist
- draftsman
- electrical draftsman
- electromechanical draftsman
- electronic draftsman
- engineering design and drafting technologist
- mechanical draftsman
- steel detailer – drafting
- structural draftsman
- structural steel drafter-detailer
- supervisor
- drafting officer

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Most job openings for this occupation will result from normal turnover and the need to replace workers who retire. Architects and engineers, as well as draftsmen, will use more effective computer aided design equipment. The supply of new graduates should be sufficient to meet demand.

Employment prospects will be better for more highly skilled individuals with knowledge of computer assisted design (CAD) and computer assisted manufacturing (CAM) software and good communication skills.

Employment Requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year college program in engineering design and drafting technology or in a related field is usually required for drafting and design technologists.
- Completion of a one- to two-year college program in drafting
or
Completion of a three- to four-year apprenticeship program
or
Four to five years of related experience plus completion of college or industry courses in drafting are usually required for drafting technicians.
- Trade certification for draftsmen is available, but voluntary in Ontario.

- Certification in engineering design and drafting technology or in a related field through provincial associations of engineering/applied science technologists and technicians may be required by employers.
- A period of supervised work experience, usually two years, is required before certification.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2253&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2253&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2253&sort=D>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2253&province=35&keyword=&action=final&display=job

Electrical and Electronics Engineers

NOC 2133-A

Occupation Description

Electrical and electronics engineers design, plan, research, evaluate and test electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and by a wide range of manufacturing, processing and transportation industries and government.

Total Number of Workers in Sarnia Lambton 215

Number of People Employed in this Occupation in Sarnia Lambton 135

% of People Employed in Sarnia Lambton in this Occupation

Architectural, engineering and related services	NAICS 5413	55.5%
Basic Chemical Manufacturing	NAICS 3251	14.8%
Oil and Gas Extraction	NAICS 2111	7.4%
Electric Power Generation, Transmission and Distribution	NAICS 2211	7.4%
Construction, Forestry, Mining, and Industrial Machinery, Equipment and Supplies Wholesaler-Distributors	NAICS 4172	7.4%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	45	33.3%
45 to 64 years	80	59.3%
65 + years	10	7.4%

Median Income from Persons in this Occupation in Sarnia Lambton \$91,477

Number of People in Sarnia Lambton's Employed Workforce 120

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
54	Professional, scientific and technical services	80	59.3%
31-33	Manufacturing	25	18.5%
22	Utilities	10	7.4%

Job Loss/Gain Information

11.1%

This Occupation May Also Be Called:

- avionics engineer
- control systems engineer
- design engineer, electrical
- distribution planning engineer, electrical
- electrical engineer
- electrical network engineer
- electronics engineer
- instrumentation and control engineer
- planning engineer, electrical systems
- process control engineer, electrical
- roadway lighting design engineer
- television systems engineer
- test engineer, electronics

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. As companies continue to introduce new technologies, employment opportunities for these workers will improve. However, international competition and the use of engineering services performed in other countries will limit employment growth.

Engineers will have to continually upgrade their skills in order to keep up with the rapid changes in technology. Firms face intense international competition requiring their engineers to be at the leading edge of their field. There are likely to be significant new opportunities for these engineers in setting up computerized production systems. This may require electrical and electronic engineers to work more closely with mechanical engineers.

Employment Requirements

- A bachelor's degree in electrical or electronics engineering or in an appropriate related engineering discipline is required.
- A master's or doctoral degree in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination
- Supervisory and senior positions in this unit group require experience.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2133&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2133&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2133&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2133&province=35&keyword=&action=final&display=job

Electrical and Electronics Engineering Technologists and Technicians **NOC 2241-A**

Occupation Description

Electrical and electronics engineering technologists and technicians may work independently or provide technical support and services in the design, development, testing, production and operation of electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and in governments and a wide range of manufacturing, processing and transportation industries.

Total Number of Workers in Sarnia Lambton 100

Number of People Employed in this Occupation in Sarnia Lambton 95

% of People Employed in Sarnia Lambton in this Occupation

Electric Power Generation, Transmission and Distribution	NAICS 2211	31.6%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	15.8%
Architectural, Engineering and Related Services	NAICS 5413	15.8%
Navigational, Measuring, Medical and Control Instruments Manufacturing	NAICS 3345	10.5%
Scientific Research and Development Services	NAICS 5417	10.5%
Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	NAICS 8113	10.5%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	15	15%
25 to 44 years	20	20%
45 to 64 years	65	65%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$62,179

Number of People in Sarnia Lambton's Employed Workforce 105

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	30	31.6%
31-33	Manufacturing	20	21.1%
54	Professional, scientific and technical services	15	15.8%

Job Loss/Gain Information

15.8%

This Occupation May Also Be Called:

- communications technologist
- electrical engineering technician
- electrical engineering technologist
- electricity distribution network technologist
- electronics design technologist
- electronics engineering technician
- electronics engineering technologist
- electronics manufacturing technician
- electronics manufacturing technologist
- lighting technologist
- metering technologist
- microwave maintenance technician
- production support technician – electronics manufacturing

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013. Continued expansion of electrical and electronic products and systems into all areas of industry and manufacturing processes will continue to generate employment opportunities. Manufacturing, business services and utilities account for most of the employment for this occupational group. However, in an economic downturn, employment in manufacturing and business services decline and demand for these professionals falls.

In the long term as companies begin to modernize and update manufacturing facilities processes and product designs in order to become more competitive globally, employment opportunities may increase as these initiatives often depend upon the services of electrical and electronics engineering technicians and technologists.

Innovations and rapid change in microcomputers and telecommunications applications means that people working in this occupational group will need continuous upgrading and professional development to keep up with the changes.

Employment Requirements

- Completion of a two- or three-year college program in electrical or electronics engineering technology, computer engineering technology, telecommunications technology or an equivalent is usually required for electrical or electronics engineering technologists.
- Completion of a one- or two-year college program in electrical or electronics engineering technology is usually required for electrical or electronics engineering technicians.

- Certification in electrical or electronics engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2241&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2241&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

No information available at this time.

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2241&province=35&keyword=&action=final&display=job

Energy Conservation Engineers

NOC 2132-A

Occupation Description

Mechanical engineers research, design and develop machinery and systems for heating, ventilating and air conditioning, power generation, transportation, processing and manufacturing. They also perform duties related to the evaluation, installation, operation and maintenance of mechanical systems. Mechanical engineers are employed by consulting firms, by power-generating utilities and in a wide range of manufacturing, processing and transportation industries, or they may be self-employed.

Total Number of Workers in Sarnia Lambton 230

Number of People Employed in this Occupation in Sarnia Lambton 220

% of People Employed in Sarnia Lambton in this Occupation

Architectural, engineering and related services	NAICS 5413	47.7%
Electric Power Generation, Transmission and Distribution	NAICS 2211	6.8%
Natural Gas Distribution	NAICS 2212	6.8%
Management, Scientific and Technical Consulting Services	NAICS 5416	6.8%

% of Occupations in Sarnia Lambton's Employed Workforce 0.4%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	125	58.1%
45 to 64 years	90	41.9%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$90,953

Number of People in Sarnia Lambton's Employed Workforce 230

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
54	Professional, scientific and technical services	120	52.2%
31-33	Manufacturing	45	19.5%
22	Utilities	35	15.2%

Job Loss/Gain Information

40.9%

This Occupation May Also Be Called:

- acoustics engineer
- automotive engineer
- design engineer – mechanical
- energy conservation engineer
- engineer, power generation
- fluid mechanics engineer
- heating, ventilation and air conditioning (HVAC) engineer
- mechanical engineer
- mechanical maintenance engineer
- nuclear engineer
- piping engineer
- refrigeration engineer
- robotics engineer
- thermal design engineer
- tool engineer

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Employment of mechanical engineers is concentrated in manufacturing, and as such moves in tandem with the general level of economic activity of the sector. Emerging technologies in information technology, biotechnology, and nanotechnology may generate new job opportunities for mechanical engineers.

Mechanical engineers may find work in the aeronautics industry because of the need to maintain and replace the ageing fleet of aircraft. In addition the growing use of electronics in machinery and process control will lead to increased overlap between mechanical and electrical and electronics engineering. Many mechanical engineers will need skills in this area. The increased emphasis on quality control in production will require individuals with up-to-date skills and with knowledge of quality control processes to meet international quality standards. Employers will be seeking individuals with general and specific computer skills, as well as, communication and teamwork skills.

Employment Requirements

- A bachelor's degree in mechanical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2132&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2132&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2132&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2132&province=35&keyword=&action=final&display=job

Environmental Chemists

NOC 2112-A

Occupation Description

Chemists conduct research and analysis in support of industrial operations, product and process development, quality control, environmental control, medical diagnosis and treatment, biotechnology and other applications. They also conduct theoretical, experimental and applied research into basic chemical and biochemical processes to create or synthesize new products and processes. Chemists are employed in research, development and quality control laboratories; chemical, petrochemical and pharmaceutical industries; mineral, metal and pulp and paper industries; and a wide variety of manufacturing, utility, health, educational and government establishments.

Total Number of Workers in Sarnia Lambton 115

Number of People Employed in this Occupation in Sarnia Lambton 100

% of People Employed in Sarnia Lambton in this Occupation

Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	35%
Petroleum and Coal Products Manufacturing	NAICS 3241	25%
Basic Chemical Manufacturing	NAICS 3251	10%
Chemical (except Agricultural) and Allied Product Wholesaler-Distributors	NAICS 4184	10%
Scientific Research and Development Services	NAICS 5417	10%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	60	55%
45 to 64 years	50	45%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$88,698

Number of People in Sarnia Lambton's Employed Workforce 115

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	70	60.9%
54	Professional, scientific and technical services	45	13%
48-49	Transportation and warehousing	10	8.7%

Job Loss/Gain Information

-20%

This Occupation May Also Be Called:

- agricultural chemist
- analytical chemist
- bioanalytical chemist
- biochemist
- chemist
- clinical chemist
- coatings chemist
- electrochemist
- environmental chemist
- food chemist
- inorganic chemist
- medical biochemist – medicine
- medicinal chemist
- nuclear magnetic resonance (NMR) spectroscopist
- oceanographic chemist
- organic chemist
- organic mass spectrometrists
- organometallic chemist
- pharmacological chemist
- physical chemist
- polymer chemist
- quality control chemist
- research chemist
- soil chemist
- textile chemist
- theoretical chemist

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013 because of the anticipated decline in chemical manufacturing. The employment of these professionals is closely related to investment in research and development. However, in an economic downturn, less money is allocated for research and development which places restrictions on the extension or renewal of existing projects.

There is a tendency toward collaboration with specialists in other fields, such as engineering. In addition to industry specific knowledge, employers look for computer, teamwork, communication, planning and organizing skills. Chemists will need to keep up with the rapid advancement in technical knowledge, particularly in the biochemical field. Pharmaceutical and biotechnology sectors will provide good employment opportunities. Graduates with a master's degree and particularly those with a Ph.D. as well as those with strong project management skills will have the best prospects.

Employment Requirements

- A bachelor's degree in chemistry, biochemistry or a related discipline is required.
- A master's or doctoral degree is usually required for employment as a research chemist.
- Licensing by a provincial association of chemists is compulsory in Quebec, and available but voluntary in Ontario and Alberta.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2112&province=35&keyword=keyword&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2112&province=35&keyword=keyword&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

No information available at this time.

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2112&province=35&keyword=keyword&action=final&display=job

Environmental Chemical Engineers

NOC 2134-A

Occupation Description

Chemical engineers research, design, and develop chemical processes and equipment, oversee the operation and maintenance of industrial chemical, plastics, pharmaceutical, resource, pulp, and food processing plants and perform duties related to chemical quality control, environmental protection and biochemical or biotechnical engineering. Chemical engineers are employed in a wide range of manufacturing and processing industries, consulting firms, government, research and educational institutions.

Total Number of Workers in Sarnia Lambton 310

Number of People Employed in this Occupation in Sarnia Lambton 310

% of People Employed in Sarnia Lambton in this Occupation

Petroleum and Coal Products Manufacturing	NAICS 3241	32.3%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	22.6%
Basic Chemical Manufacturing	NAICS 3251	16.1%
Architectural, Engineering and Related Services	NAICS 5413	9.7%

% of Occupations in Sarnia Lambton's Employed Workforce 0.5%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	120	41.4%
45 to 64 years	160	55.2%
65 + years	10	3.4%

Median Income from Persons in this Occupation in Sarnia Lambton \$111,514

Number of People in Sarnia Lambton's Employed Workforce 300

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	225	72.6%
54	Professional, scientific and technical services	30	9.7%
41	Wholesale Trade	30	9.7%

Job Loss/Gain Information

-37.4%

This Occupation May Also Be Called:

- adhesives engineer
- biochemical engineer
- biotechnical engineer
- chemical engineer
- environmental, chemical process engineer
- industrial hygiene engineer
- industrial waste treatment engineer
- liquid fuels engineer
- petrochemical engineer
- polymer engineer
- process control engineer
- chemical, project engineer
- chemical, pulp and paper engineer
- refinery engineer
- waste treatment engineer

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. In an economic downturn, chemical manufacturing is expected to decline. However, companies will continue to develop new chemicals especially in areas related to the production of pharmaceuticals and plastics materials which may provide most of the new job opportunities. Chemical engineers will also find good employment opportunities in the service producing industries such as professional, technical and scientific services particularly for research in energy and in the developing fields of biotechnology and nanotechnology.

Employers are seeking increasingly cross-degree scientists. An example of this multidisciplinary path would be a person with chemistry, plus a divergent post-doctoral degree such as cell biology and computer skills.

Employment Requirements

- A bachelor's degree in chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2134&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2134&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2134&sort=D>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2134&province=35&keyword=&action=final&display=job

Environmental Engineers

NOC 2131-A

Occupation Description

Environmental, or Civil engineers plan, design, develop and manage projects for the construction or repair of buildings, earth structures, powerhouses, roads, airports, railways, rapid transit facilities, bridges, tunnels, canals, dams, ports and coastal installations and systems related to highway and transportation services, water distribution and sanitation. Civil engineers may also specialize in foundation analysis, building and structural inspection, surveying, geomatics and municipal planning. Civil engineers are employed by engineering consulting companies, in all levels of government, by construction firms and in many other industries, or they may be self-employed.

Total Number of Workers in Sarnia Lambton 190

Number of People Employed in this Occupation in Sarnia Lambton 145

% of People Employed in Sarnia Lambton in this Occupation

Architectural, engineering and related services	NAICS 5413	51.7%
Local, Municipal and Regional Public Administration	NAICS 9130	17.2%
Non-residential Building Construction	NAICS 2362	6.9%
Utility System Construction	NAICS 2371	6.9%
Building Equipment Contractors	NAICS 2382	6.9%
Rail Transportation	NAICS 4821	6.9%

% of Occupations in Sarnia Lambton's Employed Workforce 0.3%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	10	7.4%
25 to 44 years	65	48.1%
45 to 64 years	60	44.4%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$78,790

Number of People in Sarnia Lambton's Employed Workforce 190

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
54	Professional, scientific and technical services	70	48.3%
91	Public Administration	35	24.1%
23	Construction	15	10.3%

Job Loss/Gain Information

20.7%

This Occupation May Also Be Called:

- bridge engineer
- civil engineer
- construction engineer
- environmental engineer
- geodetic engineer
- geomatics engineer
- highway engineer
- hydraulics engineer
- municipal engineer
- project engineer
- construction
- public works engineer
- sanitation engineer
- structural engineer
- surveying engineer
- traffic engineer
- transportation engineer
- water management engineer

Employment Prospects

Over the next five years: Good

Opportunities for employment in this occupation are expected to be good over the period from 2009 to 2013. As the population and economy grow, more civil engineers will be needed to design, construct and maintain highways, bridges, water supply, and large buildings and building complexes. However, employment for this occupation is cyclical and is closely tied to construction activity and investment in infrastructure. In an economic downturn, employment in this sector can fall below the forecasted rate.

Globalization of civil engineering services may result in employment opportunities outside of Canada especially since the infrastructure across much of North America needs upgrading. Individuals willing to travel overseas and those able to work well in teams will have the best job prospects.

Employment Requirements

- A bachelor's degree in civil engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2131&province=35&keyword=keyword&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2131&province=35&keyword=keyword&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

No information available at this time.

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2131&province=35&keyword=keyword&action=final&display=job

Environmental Impact Analyst

NOC 4161-A

Occupation Description

Natural and applied science policy researchers, consultants and program officers conduct research, prepare reports, provide consultation and advice and administer programs in a variety of areas related to the natural and applied sciences. They are employed by federal, provincial and municipal governments, computer and office furniture manufacturers, educational institutions, research organizations, consulting firms, environmental and conservation organizations, or they may be self-employed.

Total Number of Workers in Sarnia Lambton 115

Number of People Employed in this Occupation in Sarnia-Lambton 110

% of People Employed in Sarnia Lambton in this Occupation

Petroleum and Coal Products	NAICS 3241	22%
Basic Chemical Manufacturing	NAICS 3251	18%
Management, Scientific and Technical Consulting Services	NAICS 5416	18%
Other Pipeline Transportation	NAICS 4869	9%
Architectural, Engineering and Related Services	NAICS 5413	9%
Waste Treatment and Disposal	NAICS 5622	9%
Federal Protective Services	NAICS 9112	9%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.17%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	45	50%
45 to 64 years	45	50%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$61,557

Number of People in Sarnia-Lambton’s Employed Workforce 110

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
56	Administration and Support, Waste Management and Remediation Services	45	40%
51	Information and Cultural Industries	35	32%
41	Wholesale Trade	10	9%

Job Loss/Gain Information

54%

This Occupation May Also Be Called:

- natural and applied science policy researchers – consultants – program officers
- energy policy analyst
- environmental issues lobbyist
- ergonomist, fisheries analyst
- human factors specialist (except engineer)
- industrial hygienist
- natural resources policy analyst
- occupational hygienist
- patent agent
- program officer
- natural and applied sciences, recycling program co-ordinator
- scientific consultant
- supervisor, environmental program development
- transportation program analyst
- transportation safety analyst

Employment Prospects

No information available at this time.

Employment Requirements

- A bachelor's degree or college diploma in a related scientific or technical discipline is usually required for occupations in this unit group.
- A master's degree in a related scientific discipline may be required.
- Occupational hygienists may require certification by The Canadian Registration Board of Occupational Hygienists or le Conseil d'accréditation en hygiène industrielle du Québec.
- Patent agents require 12 months of work experience in the patent field and successful completion of examinations set by the Commissioner of Patents. They may also be required to be listed in the register of patent agents.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=4161&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=4161&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=4161&province=35&keyword=&action=final&display=job

Environmental Technologists and Technicians

NOC 2231-B

Occupation Description

Civil engineering technologists and technicians provide technical support and services to scientists, engineers and other professionals, or may work independently in fields such as structural engineering, municipal engineering, construction design and supervision, highways and transportation engineering, water resources engineering, geotechnical engineering and environmental protection. They are employed by consulting engineering and construction companies, public works, transportation and other government departments and in many other industries.

Total Number of Workers in Sarnia Lambton 65

Number of People Employed in this Occupation in Sarnia Lambton 50

% of People Employed in Sarnia Lambton in this Occupation

Architectural, engineering and related services	NAICS 5413	80%
Local, Municipal and Regional Public Administration	NAICS 9130	20%

% of Occupations in Sarnia Lambton's Employed Workforce 0.09%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	10	18.2%
25 to 44 years	35	63.6%
45 to 64 years	10	18.2%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$55,097

Number of People in Sarnia Lambton's Employed Workforce 60

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
54	Professional, scientific and technical services	45	90%
91	Public Administration	10	20%
-	-	-	-

Job Loss/Gain Information

40%

This Occupation May Also Be Called:

- bridge design technician
- building materials technician
- civil engineering technician
- civil engineering technologist
- construction technologist
- foundation technologist
- highway technician
- municipal engineering assistant
- soil technologist – civil engineering
- specifications writer
- construction, structural design technologist
- structural investigator

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Employment for these workers often moves in tandem with the construction sector which is vulnerable to labour market conditions. Occupational overlap between civil engineers and civil engineering technologists and technicians in process control and project management will increase the demand for technologists and technicians in the long run.

Due to rapidly changing technology in this field, people in these occupations should plan on periods of retraining and professional development. New entrants with co-op experience, highly developed computer expertise and strong managerial skills are likely to enjoy the best employment prospects. Employers place significant emphasis on solid managerial abilities as they regard this skill to be the predominant function of technologists.

Employment Requirements

- Completion of a two- or three-year college program in civil engineering technology or a closely related discipline is usually required for civil engineering technologists.
- Completion of a one- or two-year college program in civil engineering technology is usually required for civil engineering technicians.
- Certification in civil engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2231&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2231&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2231&sort=D>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2231&province=35&keyword=&action=final&display=job

Facility Operation and Maintenance Managers

NOC 0721-0

Occupation Description

Facility operation managers plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities and the included real estate. Facility operation managers are employed by a wide range of establishments, such as airports, harbours, canals, shopping centres, convention centres, warehouses and recreational facilities. Maintenance managers plan, organize, direct, control and evaluate the maintenance department within commercial, industrial, institutional, recreational and other facilities. Maintenance managers are employed by a wide range of establishments, such as office buildings, shopping centres, airports, harbours, warehouses, grain terminals, universities, schools and sports facilities, and by the maintenance and mechanical engineering departments of manufacturing and other industrial establishments.

Total Number of Workers in Sarnia Lambton 165

Number of People Employed in this Occupation in Sarnia-Lambton 150

% of People Employed in Sarnia Lambton in this Occupation

Agricultural Supplies Wholesaler-Distributors	NAICS 4183	13%
Basic Chemical Manufacturing	NAICS 3251	10%
Lessors of Real Estate	NAICS 5311	10%
Petroleum and Coal Products	NAICS 3241	6%
New Motor Vehicle Parts and Accessories Wholesaler-Distributor	NAICS 4152	6%
General Freight Trucking	NAICS 4841	6%
Other Pipeline Transportation	NAICS 4869	6%
Architectural, Engineering and Related Services	NAICS 5413	6%
Services to Buildings and Dwellings	NAICS 5617	6%
Elementary and Secondary Schools	NAICS 6111	6%
Community Colleges and C.E.G.E.P.s	NAICS 6112	6%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	25	18%
45 to 64 years	115	82%
65 + years	0	0%

**Median Income from Persons in this Occupation
in Sarnia-Lambton**

\$60,062

**Number of People in Sarnia-Lambton's
Employed Workforce**

165

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	25	17%
41	Wholesale Trade	25	17%
48-49	Transportation and Warehousing	25	17%

Job Loss/Gain Information

-44%

This Occupation May Also Be Called:

- airport manager
- arena manager
- campus maintenance manager
- chief, maintenance support services
- facility operations manager
- harbour master
- head, facilities maintenance
- maintenance manager
- mechanical services superintendent
- plant maintenance superintendent
- recreation facility manager
- shopping centre manager
- shopping mall manager
- superintendent, maintenance and service
- warehouse manager

Employment Prospects

Over the 2009-2018 period, an occupation will be in excess demand (a shortage of workers) if the projected job openings (arising from expansion demand and replacement demand) are greater than the projected job seekers (arising from school leavers, immigration and mobility), while an occupation will be in excess supply (a surplus of workers) if the projected job seekers are greater than the projected job openings. For Facility Operation And Maintenance Managers, over the period of 2009-2018, job openings are expected to total 15,547. It is expected that 18,586 job seekers will be available to fill these job openings.

Employment Requirements

- Facility operation managers require completion of a college or university program in business administration or in a discipline related to facility operation and maintenance.
- An equivalent combination of technical training and experience in administration or maintenance.
- Maintenance managers require completion of a college or university program in electrical or mechanical engineering or in another discipline related to building maintenance.

- An equivalent combination of technical training and experience in building maintenance.-Several years of supervisory experience in facility operations or maintenance are usually required.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0721&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0721&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=0721&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0721&province=35&keyword=&action=final&display=job

Farmers and Farm Managers

NOC 8251-B

Occupation Description

Farmers and farm managers manage the operations and functions of a farm. They are responsible for growing crops, raising and breeding livestock, poultry and other animals and marketing farm products.

Total Number of Workers in Sarnia Lambton 1,995

Number of People Employed in this Occupation in Sarnia-Lambton 1,930

% of People Employed in Sarnia Lambton in this Occupation

Farms	NAICS 1110	98%
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% of Occupations in Sarnia –Lambton’s Employed Workforce 3.2%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	50	13.8%
25 to 44 years	105	29%
45 to 64 years	150	41.6%
65 + years	55	15.3%

Median Income from Persons in this Occupation in Sarnia-Lambton \$14,076

Number of People in Sarnia-Lambton’s Employed Workforce 1,985

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
11	Agriculture	1895	98%
44-45	Retail Trade	10	0.5%
48-49	Transportation and Warehousing	10	0.5%

Job Loss/Gain Information 4%

This Occupation May Also Be Called:

- apiarist
- apple grower
- breeder, domestic animals
- chicken farmer
- dairy farmer
- feedlot manager
- fruit farmer
- fur farmer
- grape grower
- hog breeder
- horse breeder
- maple syrup producer
- market gardener
- potato farmer
- rancher
- seed grower
- sod farmer
- vegetable grower
- vineyard manager
- viticulturist
- wheat farmer

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. The overwhelming majority of job openings will occur from replacement needs as older farmers retire and fewer people enter the profession. The long-term trend toward consolidation of farms will mediate employment opportunities for this occupational group. Increasing productivity in the highly efficient agricultural industry is expected to meet domestic and export requirements for food which mean fewer farmers and farm managers will be required to do the same amount of work. Corn farmers who grow this crop for ethanol production will likely face good prospects as ethanol becomes more popular for use as fuel in automobiles.

Changes occurring in the industry are raising the skill levels required. Farms and farm managers will be required to have training in management, human resources, farm technology, marketing, communications and financial skills. In addition, the adoption of biotechnology and computerized systems will require farm managers to possess skills in these areas.

Employment Requirements

- Extensive farming experience (obtained as a farmer, farm supervisor or specialized livestock worker or by working on a family farm) is usually required.
- A college diploma in agriculture may be required.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8251&province=35&titleKeyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8251&province=35&titleKeyword=&action=final&display=training
- ❖ **Essential Skills**
No information available at this time.
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8251&province=35&titleKeyword=&action=final&display=job

Farm Supervisors and Specialized Live Stock Workers

NOC 8253-B

Occupation Description

Farm supervisors supervise the work of general farm workers and harvesting labourers and perform general farm duties. Specialized livestock workers carry out feeding, health and breeding programs on dairy, beef, sheep, poultry and hog farms and may also supervise general farm workers and harvesting labourers.

Total Number of Workers in Sarnia Lambton 40

Number of People Employed in this Occupation in Sarnia-Lambton 40

% of People Employed in Sarnia Lambton in this Occupation

Farms	NAICS 1110	87.5%
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% of Occupations in Sarnia –Lambton’s Employed Workforce 0.06%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	0	0%
45 to 64 years	25	62.5%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$19,425

Number of People in Sarnia-Lambton’s Employed Workforce 40

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
11	Agriculture	40	100%
-	-	-	-
-	-	-	-

Job Loss/Gain Information 0%

This Occupation May Also Be Called:

- cattle herds person
- dairy herds person
- farm foreman/woman
- farm supervisor
- feedlot foreman/woman
- hog operation supervisor
- horse trainer
- poultry farm foreman/woman
- ranch foreman/woman
- swine herds person
- vegetable farm foreman/woman.

Employment Prospects

No information available at this time.

Employment Requirements

- Farm supervisors and specialized livestock workers may require a college certificate or other specialized training in agriculture or livestock husbandry.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8253&province=35&titleKeyword=farm&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8253&province=35&titleKeyword=farm&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8253&province=35&titleKeyword=farm&action=final&display=job

Forestry Professionals

NOC 2122-A

Occupation Description

Forestry professionals conduct research, develop plans and administer and direct programs related to the management and harvesting of forest resources. They are employed by the forest industry, provincial and federal governments, consulting companies, educational institutions and other industries, or they may be self-employed.

Total Number of Workers in Sarnia Lambton

No information available at this time.

Number of People Employed in this Occupation in Sarnia-Lambton

No information available at this time.

% of People Employed in Sarnia Lambton in this Occupation

No information available at this time.

% of Occupations in Sarnia –Lambton’s Employed Workforce

No information available at this time.

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia-Lambton

No information available at this time.

Number of People in Sarnia-Lambton’s Employed Workforce

No information available at this time.

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

No information available at this time.

Job Loss/Gain Information

No information available at this time.

This Occupation May Also Be Called:

- appraisal forester
- consulting forester
- district forester
- forest engineer
- forester
- forestry superintendent
- professional forester
- regional inventory officer – forestry
- registered professional forester (RPF)

Employment Prospects

No information available at this time.

Employment Requirements

- A bachelor's degree in forestry or forestry engineering is required.
- Certification as a forester or forest engineer by provincially chartered associations is required in provinces having such associations.
- A two-year practicum of supervised work experience and professional examinations are usually required before registration.
- Supervisory and senior occupations in this unit group require additional experience.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2122&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2122&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2122&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2122&province=35&keyword=&action=final&display=job

Forestry Technologists and Technicians

NOC 2223-B

Occupation Description

Forestry technologists and technicians may work independently or perform technical and supervisory functions in support of forestry research, forest management, forest harvesting, forest resource conservation and environmental protection. They are employed by the forest industry sector, provincial and federal governments, consulting firms, and other industries and institutions or they may be self-employed.

Total Number of Workers in Sarnia Lambton 10

Number of People Employed in this Occupation in Sarnia-Lambton

No information available at this time.

% of People Employed in Sarnia Lambton in this Occupation

No information available at this time.

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.015%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia-Lambton

No information available at this time.

Number of People in Sarnia-Lambton’s Employed Workforce

No information available at this time.

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

No information available at this time.

Job Loss/Gain Information

No information available at this time.

This Occupation May Also Be Called:

- conservation technician – forestry
- cruising technician – forestry
- enforcement officer – forestry
- extension ranger – forestry
- fire suppression officer – forestry
- forest fire technician
- forest survey technician
- forest technician
- forestry technician
- forestry technologist
- resource officer
- forest inventory
- resource technician – forestry
- scaler technician – logging
- scaling co-ordinator – logging
- silviculture technician

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013. Increased mechanization of logging operations particularly in harvesting and site preparation and improvements in logging equipment will continue to depress demand for forestry technologists and technicians. However demand for forestry technologists and technicians may increase in the areas of forest conservation as more land is set aside to protect natural resources or wildlife habitats.

People working in these fields should plan on periods of retraining and professional development to learn new technologies. Increasingly, they will need certification from a professional organization in their field.

Employment Requirements

- Completion of a one- to three-year college program in forestry technology or in a renewable resource program or forest ranger program is usually required.
- Certification by, or registration with, a provincial association as a forestry technologist or technician may be required.
- Certification or licensing as a scaler is required for some positions.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2223&province=35&titleKeyword=Forestry&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2223&province=35&titleKeyword=Forestry&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2223&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2223&province=35&titleKeyword=Forestry&action=final&display=job

Industrial Engineering and Manufacturing Technologists and Technicians

NOC 2233-A

Occupation Description

Industrial engineering and manufacturing technologists and technicians may work independently or provide technical support and services in the development of production methods, facilities and systems, and the planning, estimating, measuring and scheduling of work. They are employed by manufacturing and insurance companies, government departments, and establishments in other industries.

Total Number of Workers in Sarnia Lambton 135

Number of People Employed in this Occupation in Sarnia Lambton 125

% of People Employed in Sarnia Lambton in this Occupation

Petroleum and Coal Product Manufacturing	NAICS 3241	24%
Architectural, Engineering and Related Services	NAICS 5413	12%
Support Activities for Mining and Oil and Gas Extraction	NAICS 2131	8%
Basic Chemical Manufacturing	NAICS 3251	8%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	8%
Non-Ferrous Metal (except Aluminum) Production and Processing	NAICS 3314	8%
Boiler, Tank and Shipping Container Manufacturing	NAICS 3324	8%
Agricultural, Construction and Mining Machinery Manufacturing	NAICS 3331	8%
Other Miscellaneous Manufacturing	NAICS 3399	8%
Petroleum Product Wholesaler-Distributors	NAICS 4121	8%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	10	8%
25 to 44 years	35	28%
45 to 64 years	80	64%
65 + years	0	0%

**Median Income from Persons in this Occupation
in Sarnia Lambton**

\$66,534

**Number of People in Sarnia Lambton's
Employed Workforce**

125

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	80	64%
54	Professional, scientific and technical services	15	12%
48-49	Transportation and warehousing	10	8%

Job Loss/Gain Information

52%

This Occupation May Also Be Called:

- CAD/CAM programmer
- industrial engineering technician
- industrial engineering technologist
- loss prevention technologist
- manufacturing technician
- manufacturing technologist
- planning technician
- plastics manufacturing technician
- pulp and paper manufacturing technologist
- quality assurance technologist
- scheduling technician – manufacturing
- textile technologist
- time study analyst

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013. Majority of these technologists and technicians work in the manufacturing sector, which is experiencing a decline while undergoing modernization and restructuring. In an economic downturn, the manufacturing sector experiences downsizing. However, technologists and technicians are more dispersed across occupational categories and could look for work in fields other than engineering or technology such as general science.

People working in this field should expect to need intermittent retraining and professional development to keep up with rapid technological change.

Employment Requirements

- Completion of a two- or three-year college program or equivalent in industrial engineering technology, pulp and paper technology, plastics technology, textile technology, manufacturing technology or a related discipline is usually required for industrial engineering or manufacturing technologists.
- Completion of a one- or two-year college program in industrial engineering technology or in a related discipline is usually required for industrial engineering or manufacturing technicians.

- Certification in industrial engineering or manufacturing technology or in a related field is available through provincial or territorial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- A college diploma in manufacturing technology and/or trade certification and experience in machining and tooling or metalworking is required for CAD-CAM/CNC programmers.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2233&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2233&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2233c&sort=D>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2233&province=35&keyword=&action=final&display=job

Insulators

NOC 7293-B

Occupation Description

Insulators apply insulation materials to plumbing, air-handling, heating, cooling and refrigeration systems, piping equipment and pressure vessels, and walls, floors and ceilings of buildings and other structures, to prevent or reduce the passage of heat, cold, sound or fire. They are employed by construction companies and insulation contractors, or they may be self-employed.

Total Number of Workers in Sarnia Lambton 305

Number of People Employed in this Occupation in Sarnia-Lambton 195

% of People Employed in Sarnia Lambton in this Occupation

Building Finishing Contractors	NAICS 2383	74%
Other Non-Metallic Mineral Product Manufacturing	NAICS 3279	7%
Support Activities for Mining and Oil and Gas Extraction	NAICS 2131	5%
Highway, Street and Bridge Construction	NAICS 2373	5%
Petroleum and Coal Products Manufacturing	NAICS 3241	5%
Basic Chemical Manufacturing	NAICS 3251	5%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.48%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	25	15%
25 to 44 years	75	45%
45 to 64 years	65	39%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$60,527

Number of People in Sarnia-Lambton’s Employed Workforce 300

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
21	Mining and Oil and Gas Extraction	10	5%
23	Construction	150	77%
31-33	Manufacturing	25	13%

Job Loss/Gain Information

51%

This Occupation May Also Be Called:

- boiler and pipe insulator
- building insulator
- firestopping insulator
- heat and frost insulator
- insulation applicator
- insulation mechanic
- insulator apprentice
- sound insulator

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program *or* a combination of over four years of work experience in the trade and some high school, college or industry courses in insulating is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, Nova Scotia, New Brunswick, Saskatchewan, Alberta, British Columbia, Nunavut, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified insulators (heat and frost).

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7293&province=35&keyword=&action=final&display=union

❖ Local Education & Training Programs:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7293&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7293&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7293&province=35&keyword=&action=final&display=job

Landscape and Horticultural Technicians and Specialists

NOC 2225-A

Occupation Description

This unit group includes those who survey and assess landscapes; draw sketches and build models of landscape designs; construct and maintain gardens, parks, golf courses and other landscaped environments; advise clients on issues related to horticulture; breed, cultivate and study plants; and treat injured and diseased trees and plants. They are employed by landscape designers and contractors, lawn service and tree care establishments, golf courses, nurseries and greenhouses, and municipal, provincial and national parks, or they may be self-employed.

Total Number of Workers in Sarnia Lambton 105

Number of People Employed in this Occupation in Sarnia Lambton 90

% of People Employed in Sarnia Lambton in this Occupation

Services to Buildings and Dwellings	NAICS 5617	27.8%
Other Amusement and Recreation Industries	NAICS 7139	27.8%
Crop Production	NAICS 1110	22.2%
Local, Municipal and Regional Public Administration	NAICS 9130	16.7%
Lawn and Garden Equipment and Supplies Stores	NAICS 4442	11.1%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	25	35.7%
25 to 44 years	30	42.9%
45 to 64 years	15	21.4%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$35,398

Number of People in Sarnia Lambton's Employed Workforce 105

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
11	Agriculture, Forestry, Fishing and Hunting	25	27.8%
56	Administrative and Support, Waste Management and Remediation Services	25	27.8%
71	Arts, Entertainment and Recreation	25	27.8%

Job Loss/Gain Information

27.8%

This Occupation May Also Be Called:

- arborist
- golf course superintendent
- greenskeeper
- horticultural technician
- horticulture specialist
- horticulturist
- hydroponics technician
- landscape architectural technician
- landscape designer
- landscape gardener
- landscape technician
- landscaper
- lawn care specialist
- tree service technician

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of a university or college program in agronomy, arboriculture, horticulture, landscaping, landscape design or landscape technology is usually required.
- Experience as a landscape and grounds maintenance labourer may be required for golf course superintendents, landscape gardeners and landscapers
- An apprenticeship program is available for horticulturists, arboriculturists and landscape gardeners.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2225&province=35&keyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2225&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2225&sort=D>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2225&province=35&keyword=&action=final&display=job

Manufacturing Managers

NOC 0911-0

Occupation Description

Manufacturing managers plan, organize, direct, control and evaluate the operations of a manufacturing establishment or of a production department within a manufacturing establishment, under the direction of a general manager or other senior manager. They are employed by manufacturing companies.

Total Number of Workers in Sarnia Lambton 305

Number of People Employed in this Occupation in Sarnia-Lambton 300

% of People Employed in Sarnia Lambton in this Occupation

Basic Chemical Manufacturing	NAICS 3251	23%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	13%
Motor Vehicle Parts Manufacturing	NAICS 3363	10%
Plastic Product Manufacturing	NAICS 3261	8%
Petroleum and Coal Products Manufacturing	NAICS 3241	5%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.5%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	125	44%
45 to 64 years	150	53%
65 + years	10	3%

Median Income from Persons in this Occupation in Sarnia-Lambton \$81,887

Number of People in Sarnia-Lambton’s Employed Workforce 300

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	255	85%
41	Wholesale Trade	25	8%
56	Administration and Support, Waste Management and Remediation Services	10	3%

Job Loss/Gain Information

1.6%

This Occupation May Also Be Called:

- automobile production manager
- clothing factory manager
- dairy plant manager
- distillery manager
- factory superintendent
- foundry manager
- operations manager, manufacturing
- plant manager- manufacturing
- printing plant manager
- production manager – manufacturing
- textile mill manager
- tire plant manager.

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013. During an economic downturn, overall employment in manufacturing typically declines. It is expected that growth will also be moderated over the forecast period due to the adoption of computerized scheduling and planning software and productivity gains on the production line.

Employers look for managers with excellent communication, planning and organizing, and teamwork skills. Persons with post secondary credentials in a related field with strong competency in spreadsheet, word-processing and database software experience would have an advantage in the job market.

Employment Requirements

- Completion of a college or university program in engineering or business administration is usually required.
- Five to ten years of supervisory experience in manufacturing are required.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0911&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0911&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0911&province=35&keyword=&action=final&display=job

Mechanical Engineering Technologists and Technicians

NOC 2232-B

Occupation Description

Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments.

Total Number of Workers in Sarnia Lambton 105

Number of People Employed in this Occupation in Sarnia Lambton 90

% of People Employed in Sarnia Lambton in this Occupation

Architectural, engineering and related services	NAICS 5413	27.8%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	16.7%
Electric Power Generation, Transmission and Distribution	NAICS 2211	11.1%
Boiler, Tank and Shipping Container Manufacturing	NAICS 3324	11.1%
Coating, Engraving, Heat Treating and Allied Activities	NAICS 3328	11.1%
Scientific Research and Development Services	NAICS 5417	11.1%
Provincial and Territorial Public Administration	NAICS 9120	5.3%

% of Occupations in Sarnia Lambton's Employed Workforce 0.2%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	25	27.8%
25 to 44 years	25	27.8%
45 to 64 years	40	44.4%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton \$89,442

Number of People in Sarnia Lambton's Employed Workforce 100

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	35	38.9%
54	Professional, scientific and technical services	35	38.9%
22	Utilities	15	16.7%

Job Loss/Gain Information

50%

This Occupation May Also Be Called:

- HVAC (heating, ventilation and air conditioning) technologist
- aeronautical technologist
- heating designer
- machine designer
- marine engineering technologist
- mechanical engineering technician
- mechanical engineering technologist
- mechanical technologist
- mould designer
- thermal station technician
- tool and die designer
- tool designer

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Slower growth in manufacturing activities should moderate demand for mechanical engineering technologists and technicians. In an economic downturn, the manufacturing sector experiences downsizing, however, technologists and technicians are more dispersed across occupational categories and could look for work in fields other than engineering or technology such as general science. The growing use of advanced technologies, such as computer-aided design and drafting and computer simulation, will continue to moderate employment growth.

People in these occupations should plan for continuous retraining and professional development to keep up with the rapidly changing technology in their field.

Employment Requirements

- Completion of a two- or three-year college program in mechanical engineering technology is usually required for mechanical engineering technologists.
- Completion of a one- or two-year college program in mechanical engineering technology is usually required for mechanical engineering technicians.
- Certification in mechanical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Working Conditions

No information available at this time.

Links

❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2232&province=35&keyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2232&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2232&sort=D>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2232&province=35&keyword=&action=final&display=job

Nursery and Greenhouse Operators and Managers

NOC 8254-B

Occupation Description

Nursery and greenhouse operators and managers plan, organize, direct and control the activities of nursery and greenhouse staff who grow and market trees, shrubs, flowers and plants.

Total Number of Workers in Sarnia Lambton 20

Number of People Employed in this Occupation in Sarnia Lambton 10

% of People Employed in Sarnia Lambton in this Occupation

Farms	NAICS 1110	50%
Lawn and Garden Equipment and Supplies Stores	NAICS 4442	50%

% of Occupations in Sarnia Lambton's Employed Workforce 0.02%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia Lambton

No information available at this time.

Number of People in Sarnia Lambton's Employed Workforce 15

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
11	Agriculture	10	100%
-	-	-	-
-	-	-	-

Job Loss/Gain Information 0%

This Occupation May Also Be Called:

- Christmas tree farm operator
- flower grower
- greenhouse farmer
- greenhouse manager
- greenhouse operator
- nursery farmer
- nursery manager
- nursery operator
- plant grower – nursery

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013. Despite the addition of more greenhouse acres under operation, this expansion is largely within existing operations and has not translated into significantly more managers/operators. Higher energy costs in the future may constrain growth. The sector is also affected by the level of residential construction activity which is expected to slow over the forecast period. Employee turnover resulting from seasonal employment trends will however, generate on-going job opportunities as many part-time and foreign workers are attracted to this work.

Greenhouses and nurseries are becoming large scale, automated operations with the adoption of biotechnology and computerized systems applied to farming. Technology will replace manual labour and result in fewer workers required to do the same work.

Employment Requirements

- Completion of a college program in horticulture is usually required.
- Experience as a nursery or greenhouse supervisor is required.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8254&province=35&titleKeyword=&action=final&display=union

❖ Local Education & Training Programs:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8254&province=35&titleKeyword=&action=final&display=training

❖ Essential Skills

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=8254&sort=N>

❖ Work Habits:

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ Local Employers:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8254&province=35&titleKeyword=&action=final&display=job

Power System and Power Station Operators

NOC 7352-B

Occupation Description

Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks. Power station operators operate reactors, turbines, boilers, generators and other related equipment in electrical generating stations and substations. They are employed by electric power utilities and by some large manufacturing facilities.

Total Number of Workers in Sarnia Lambton 100

Number of People Employed in this Occupation in Sarnia Lambton 90

% of People Employed in Sarnia Lambton in this Occupation

Electric Power Generation Transmission and Distribution	NAICS 2211	100%
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% of Occupations in Sarnia Lambton's Employed Workforce 0.15%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	10	10%
25 to 44 years	30	30%
45 to 64 years	60	60%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia Lambton

103,980

Number of People in Sarnia Lambton's Employed Workforce

95

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	90	100%
-	-	-	-
-	-	-	-

Job Loss/Gain Information

33.3%

This Occupation May Also Be Called:

- apprentice power dispatcher
- chief operator
- area dispatch
- diesel station operator
- distribution control operator
- generating station operator
- nuclear reactor operator
- power dispatcher
- power plant operator
- power system operator

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Ontario Power Generation (OPG) supplies 70 percent of the province's electrical power through its 64 hydroelectric, five fossil, and three nuclear generating stations. Employment opportunities for this occupation are widely dispersed throughout the province in the hydroelectric facilities.

Employment Requirements

- Completion of secondary school is required for power systems and power station operators.
- Power systems operators require completion of a three- to five-year power system operator apprenticeship program, or
- Over three years of work experience in the trade and some college or industry courses in electrical and electronic technology.
- Trade certification is available, but voluntary for power system operators in Newfoundland and Labrador and New Brunswick.
- Power station operators require an apprenticeship program in stationary or power engineering, or
- Several years of work experience in the trade and some high school, correspondence or college courses in stationary or power engineering.
- Power station operators require a provincial or territorial power engineering or stationary engineering certificate according to class.
- Control room operators at nuclear power plants require licensing from the Canadian Nuclear Safety Commission.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workinginCanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7352&province=35&titleKeyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7352&province=35&titleKeyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7352&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7352&province=35&titleKeyword=&action=final&display=job

Public Works and Maintenance Labourers

NOC 7621-D

Occupation Description

Public works and maintenance labourers perform a variety of labouring activities to maintain sidewalks, streets, roads and similar areas. They are employed by municipal, provincial and federal government public works departments or by private contractors under contract to governments.

Total Number of Workers in Sarnia Lambton 115

Number of People Employed in this Occupation in Sarnia-Lambton 70

% of People Employed in Sarnia Lambton in this Occupation

Local, Municipal and Regional Public Administration	NAICS 9130	42.8%
Water, Sewage and Other Systems	NAICS 2213	14.3%
Waste Collection	NAICS 5621	14.3%
Waste Treatment and Disposal	NAICS 5622	14.3%
Aboriginal Public Administration	NAICS 9141	14.3%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.17%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	15	21.4%
25 to 44 years	25	35.7%
45 to 64 years	20	28.5%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$34,016

Number of People in Sarnia-Lambton’s Employed Workforce 110

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	10	14.2%
56	Administrative and Support, Waste Management and Remediation Services	20	28.5%
91	Public Administration	35	50%

Job Loss/Gain Information

14%

This Occupation May Also Be Called:

- garbage collector
- helper – garbage collection
- municipal labourer
- parking meter collector
- public works labourer
- road maintenance worker
- sewer maintenance worker
- sidewalk cleaner

Employment Prospects

No information available at this time.

Employment Requirements

- Several weeks of on-the-job training are provided.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7621&province=35&titleKeyword=&action=final&display=union

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7621&province=35&titleKeyword=&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7621&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7621&province=35&titleKeyword=&action=final&display=job

Residential Home Builders and Renovators

NOC 0712-0

Occupation Description

Residential home builders own, operate and manage companies engaged in the construction of new residential homes. Residential home renovators own, operate and manage companies engaged in the renovation of existing residential homes.

Total Number of Workers in Sarnia Lambton 115

Number of People Employed in this Occupation in Sarnia-Lambton 45

% of People Employed in Sarnia Lambton in this Occupation

Residential Building Construction	NAICS 2361	100%
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% of Occupations in Sarnia –Lambton’s Employed Workforce 0.18%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	20	66%
25 to 44 years	0	0%
45 to 64 years	0	0%
65 + years	10	33%

Median Income from Persons in this Occupation in Sarnia-Lambton \$28,329

Number of People in Sarnia-Lambton’s Employed Workforce 115

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	45	100%
-	-	-	-
-	-	-	-

Job Loss/Gain Information -3%

This Occupation May Also Be Called:

- contractor, home renovation
- contractor, residential homes
- home builder
- home renovator
- renovation contractor
- residential home builder

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. Job opportunities for residential home builders and renovators depend on the volume of house construction and renovation, which, in turn, is largely dependent on the state of the economy. In times of economic downturns construction activity typically declines. However, the renovation sector will continue to benefit from an ageing stock of housing and trends towards home improvement.

Concerns about energy conservation and retrofitting, advances in building materials, the development of electronically operated "smart" buildings and the proliferation of new building standards will make the work of residential home builders and renovators more complex.

Employment Requirements

- A university degree in civil engineering or a college diploma in construction technology is usually required.
- A master's degree in project management may be required.
- Several years of experience in the construction industry, including experience as a construction supervisor or field superintendent, are usually required.
- Extensive experience in the construction industry may substitute for post-secondary education requirements.
- Professional engineering status or construction trade certification may be required by some employers.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0712&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0712&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=0712b&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0712&province=35&keyword=&action=final&display=job

Roofers and Shinglers

NOC 7291-B

Occupation Description

Roofers install, repair or replace flat roofs and shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs. They are employed by roofing and general contractors, or they may be self-employed.

Total Number of Workers in Sarnia Lambton 100

Number of People Employed in this Occupation in Sarnia-Lambton 40

% of People Employed in Sarnia Lambton in this Occupation

Foundation, Structure, and Building Exterior Contractors	NAICS 2381	78%
Residential Building Construction	NAICS 2361	22%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.13%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	35	78%
45 to 64 years	10	22%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$38,706

Number of People in Sarnia-Lambton’s Employed Workforce 85

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	40	100%
-	-	-	-
-	-	-	-

Job Loss/Gain Information

-62%

This Occupation May Also Be Called:

- apprentice roofer
- asphalt roofer
- built-up roofer
- flat roofer
- residential steep roofer
- single-ply roofer

Employment Prospects

Over the next five years: Good

Opportunities for employment in this occupation are expected to be good over the period from 2009 to 2013. A strong construction industry often leads to strong demand for roofers and shinglers. The weaker economy that began in late 2008 would normally restrain demand for this occupation, but strong fiscal spending by all levels of government will help boost construction activity and result in average prospects for these occupations. The 2009 Ontario Construction Secretariat survey report of Ontario contractors shows that roofers and shinglers were most commonly in short supply. In the medium term, it is assumed that the private sector will strengthen enough to offset the end of government funded construction initiatives. Residential starts are expected to fall in 2009, but increase in 2010. Also, in the coming years many construction workers will be retiring, increasing jobs opportunities in these occupations.

Employment Requirements

- Completion of secondary school is usually required.
- For roofers, completion of a two- to three-year apprenticeship program *or* Over three years of work experience in the trade are usually required to be eligible for trade certification.
- Roofing trade certification is compulsory in Quebec and British Columbia and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Saskatchewan, Alberta, Nunavut, Northwest Territories and the Yukon.
- Trade certification for residential steep roofers is available, but voluntary, in British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified roofers.
- Shinglers require one to two years of on-the-job training.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7291&province=35&keyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7291&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7291&sort=N>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7291&province=35&keyword=&action=final&display=job

Silviculture and Forestry Workers

NOC 8422-C

Occupation Description

Silviculture and forestry workers perform a variety of duties related to reforestation and to the management, improvement and conservation of forest lands. They are employed by logging companies, contractors and government services.

Total Number of Workers in Sarnia Lambton 10

Number of People Employed in this Occupation in Sarnia Lambton

No information available at this time.

% of People Employed in Sarnia Lambton in this Occupation

No information available at this time.

% of Occupations in Sarnia Lambton's Employed Workforce

No information available at this time.

Age Profile of People Who Work in Sarnia Lambton in this Occupation

No information available at this time.

Median Income from Persons in this Occupation in Sarnia Lambton

No information available at this time.

Number of People in Sarnia Lambton's Employed Workforce

No information available at this time.

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

No information available at this time.

Job Loss/Gain Information

No information available at this time.

This Occupation May Also Be Called:

- clearing saw operator
- forest firefighter
- forestry crew worker
- forestry worker
- pieceworker – silviculture
- scarification equipment operator
- silviculture worker
- spacing saw operator
- thinning saw operator

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of secondary school may be required.
- Completion of a college or other specialized program for silviculture workers or forestry crew workers may be required.
- Formal training in power saw operation and maintenance and several months of on-the-job training are usually provided. Experience as a logging and forestry labourer may be required.
- A chemicals application licence is required.
- Workplace hazardous materials information system (WHMIS) and transportation of dangerous goods (TDG) certificates may be required.
- A silvicultural worker's licence may be required.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8422&province=35&titleKeyword=Forestry Worker&action=final&display=union

❖ Local Education & Training Programs:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8422&province=35&titleKeyword=Forestry Worker&action=final&display=training

❖ Essential Skills

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=8422&sort=N>

❖ Work Habits:

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits>

❖ Local Employers:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=8422&province=35&titleKeyword=Forestry Worker&action=final&display=job

Solar Installers and Technicians

NOC 7441-C

Occupation Description

Workers in this unit group install and service a wide variety of interior and exterior prefabricated products such as windows, doors, electrical appliances, water heaters, fences, play structures and septic systems, at residential or commercial properties. They are employed by companies specializing in specific product installation and service.

Total Number of Workers in Sarnia Lambton 100

Number of People Employed in this Occupation in Sarnia-Lambton 45

% of People Employed in Sarnia Lambton in this Occupation

Other Specialty Trade Contractors	NAICS 2389	44.4%
Building Equipment Contractors	NAICS 2382	22.2%
Home Furnishing Stores	NAICS 4422	22.2%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.15%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	10	22%
25 to 44 years	20	44%
45 to 64 years	10	22%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$39,439

Number of People in Sarnia-Lambton’s Employed Workforce 100

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
23	Construction	40	88.8%
-	-	-	-
-	-	-	-

Job Loss/Gain Information -62%

This Occupation May Also Be Called:

- aluminum window installer
- eavestrough installer
- electric appliance installer
- exterior cladder
- fence erector
- hot tub installer
- kitchen cupboard and vanity installer
- recreation structure erector
- siding installer
- sign installer
- swimming pool installer
- water conditioner servicer
- water heater servicer
- window installer
- residential and commercial installers and servicers

Employment Prospects

No information available at this time.

Employment Requirements

- Some secondary school education is usually required.
- On-the-job training and several months of related installing, repairing or servicing experience are usually required.
- A driver's licence may be required.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7441&province=35&titleKeyword=&action=final&display=union

❖ Local Education & Training Programs:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7441&province=35&titleKeyword=&action=final&display=training

❖ Essential Skills

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7441a&sort=N>

❖ Work Habits:

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits>

❖ Local Employers:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7441&province=35&titleKeyword=glazier&action=final&display=job

Stationary Engineers and Auxiliary Equipment Operators

NOC 7351-B

Occupation Description

Stationary engineers and auxiliary equipment operators operate and maintain various types of stationary engines and auxiliary equipment to provide heat, light, power and other utility services for commercial, industrial and institutional buildings and other work sites. They are employed in industrial and manufacturing plants, hospitals, universities, government, utilities, hotels and other commercial establishments.

Total Number of Workers in Sarnia Lambton 180

Number of People Employed in this Occupation in Sarnia-Lambton 165

% of People Employed in Sarnia Lambton in this Occupation

Electric Power Generation	NAICS 2211	42.4%
Basic Chemical Manufacturing	NAICS 3251	18%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	15%
Pesticide, Fertilizer and Other Agricultural Chemical Manufacturing	NAICS 3253	8%
Petroleum and Coal Products Manufacturing	NAICS 3241	6%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.3%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	40	23.5%
45 to 64 years	120	70.5%
65 + years	10	0.6%

Median Income from Persons in this Occupation in Sarnia-Lambton \$99,843

Number of People in Sarnia-Lambton’s Employed Workforce 185

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	70	42%
31-33	Manufacturing	85	51%
-	-	-	-

Job Loss/Gain Information

-26.6%

This Occupation May Also Be Called:

- auxiliary plant operator
- boiler operator
- power engineer
- power engineer apprentice
- stationary engineer
- stationary engineer apprentice
- steam plant operator

Employment Prospects

Over the next five years: Limited

Opportunities for employment in this occupation are expected to be limited over the period from 2009 to 2013. Continuing commercial and industrial development will increase the amount of equipment to be operated and maintained. However, automated systems and computerized controls are making newly installed equipment more efficient, thus reducing the number of jobs needed for their operation.

As equipment becomes more computerized and mechanization increases, operators will require greater computer skills. Over the forecast period, competition will be keen for these few relatively higher paying jobs due to slow job growth and low worker turnover.

Employment Requirements

- Completion of secondary school is usually required.
- Completion of a regulated apprenticeship program in stationary or power engineering, or
- On-the-job training and additional courses or a college training program in stationary or power engineering or building systems operations are required. -Provincial or territorial certification or licensing according to class (4th, 3rd, 2nd and 1st class and an additional 5th class in Manitoba, Saskatchewan, Nunavut and the Northwest Territories) is required.
- Certification according to class (4th, 3rd, 2nd or 1st class for heating and steam engines and class B or A for refrigeration) is required in Quebec.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workinginCanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7351&province=35&titleKeyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7351&province=35&titleKeyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=7351&sort=N>
- ❖ **Work Habits:**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits>
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=7351&province=35&titleKeyword=&action=final&display=job

Supervisors, Petroleum, Gas and Chemical Processing and Utilities

NOC 9212-B

Occupation Description

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Petroleum, Gas and Chemical Process Operators (9232)*, *Chemical Plant Machine Operators (9421)*, *Labourers in Chemical Products Processing and Utilities (9613)*, *Water and Waste Plant Operators (9424)*, *Stationary Engineers and Auxiliary Equipment Operators (7351)* and *Power Systems and Power Station Operators (7352)*. They are employed by petroleum and natural gas processing, pipeline and petrochemical companies, chemical and pharmaceutical companies, water and waste treatment utilities and in a range of other industries and institutions.

Total Number of Workers in Sarnia Lambton 200

Number of People Employed in this Occupation in Sarnia-Lambton 185

% of People Employed in Sarnia Lambton in this Occupation

Petroleum and Coal Products Manufacturing	NAICS 3241	40.5%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	19%
Electric Power Generation, Transmission and Distribution	NAICS 2211	16.2%
Basic Chemical Manufacturing	NAICS 3251	16.2%
Other Chemical Product Manufacturing	NAICS 3259	6%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.3%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	10	5.3%
25 to 44 years	70	38%
45 to 64 years	105	56.7%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$110,567

Number of People in Sarnia-Lambton’s Employed Workforce 200

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	35	19%
31-33	Manufacturing	145	78%
-	-	-	-

Job Loss/Gain Information

-42%

This Occupation May Also Be Called:

- chemical processing supervisor
- foreman/woman, chemical
- foreman/woman, cosmetics processing
- foreman/woman, natural gas plant
- foreman/woman, water purification plant
- paint processing foreman/woman
- production supervisor, pharmaceuticals production
- supervisor, specialty chemicals
- steam engineer leader
- supervisor petroleum refining
- supervisor, pipeline operation
- supervisor power station
- supervisor, sewage treatment plant

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of secondary school is required.
- Post-secondary education in chemical processing or sciences may be required for some occupations in this unit group.
- Several years of experience as a senior operator in the same company or plant are usually required.
- Some occupations in this unit group may require a specific licence or certification, such as a stationary engineer`s licence or refrigeration certification.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=9212&province=35&titleKeyword=petroleum&action=final&display=union

❖ Local Education & Training Programs:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=9212&province=35&titleKeyword=petroleum&action=final&display=training

❖ **Essential Skills**

<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=9212&sort=N>

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=9212&province=35&titleKeyword=petroleum&action=final&display=job

Utilities Managers

NOC 0912-0

Occupation Description

This unit group includes managers who plan, organize, direct, control and evaluate the operations of utility companies or services or of heating oil distribution companies. The services provided include the distribution of water, electricity, natural gas and heating oil to residential, commercial and industrial consumers, waste disposal and waste recycling. Utilities managers are employed in public and private sector utilities and in heating oil distribution companies.

Total Number of Workers in Sarnia Lambton 55

Number of People Employed in this Occupation in Sarnia-Lambton 60

% of People Employed in Sarnia Lambton in this Occupation

Electric Power Generation, Transmission and Distribution	NAICS 2211	33%
Natural Gas Distribution	NAICS 2212	25%
Waste Treatment and Disposal	NAICS 5622	16%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.9%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	30	60%
45 to 64 years	20	40%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$80,175

Number of People in Sarnia-Lambton’s Employed Workforce 55

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	30	55%
56	Administration and Support, Waste Management and Remediation Services	15	25%
54	Professional, Scientific, Technical Services	10	16%

Job Loss/Gain Information

-7.7%

This Occupation May Also Be Called:

- director of waste management
- director of water pollution control
- director, distribution systems – utilities
- director, electrical power transmission operations
- director, water supply
- electric power plant manager
- liquid waste facility manager
- manager, distribution
- refined petroleum products, manager
- electric generating plant, manager
- gas supply operations, manager
- sewage treatment plant, water filtration plant manager

Employment Prospects

No information available at this time.

Employment Requirements

- A bachelor's degree or college diploma in an appropriate discipline is required. For example, electrical engineering is required for managers of transmission lines, and water resource technology for water supply managers.
- Several years of experience as a supervisor in a related utilities operations department are required.
- Professional engineer certification is usually required for managers of utility operations involved in the transmission and distribution of electrical power, and natural gas and heating oil.

Working Conditions

No information available at this time.

Links❖ **Professional Associations:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0912&province=35&keyword=&action=final&description=hide

❖ **Local Education & Training Programs:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0912&province=35&keyword=&action=final&display=training

❖ **Essential Skills**

No information available at this time.

❖ **Work Habits:**

[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)

❖ **Local Employers:**

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=0912&province=35&keyword=&action=final&display=job

Waste and Water Plant Operator

NOC 9424-C

Occupation Description

Water plant operators monitor and operate computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water. Waste plant operators monitor and operate computerized control systems and related equipment in wastewater, sewage treatment and liquid waste plants to regulate the treatment and disposal of sewage and wastes. They are employed by municipal governments, industries and institutions.

Total Number of Workers in Sarnia Lambton 80

Number of People Employed in this Occupation in Sarnia-Lambton 50

% of People Employed in Sarnia Lambton in this Occupation

Water, Sewage and Other Systems	NAICS 2213	48%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	16%
Soap, Cleaning Compound and Toilet Preparation Manufacturing	NAICS 3256	16%

% of Occupations in Sarnia –Lambton’s Employed Workforce 0.11%

Age Profile of People Who Work in Sarnia-Lambton in this Occupation

Years	#	%
15 to 24 years	10	14.3%
25 to 44 years	30	42.8%
45 to 64 years	30	42.8%
65 + years	0	0%

Median Income from Persons in this Occupation in Sarnia-Lambton \$49,306

Number of People in Sarnia-Lambton’s Employed Workforce 70

Top Three Industrial Sectors Based on Full Time Employment in Sarnia-Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
22	Utilities	20	40%
31-33	Manufacturing	20	40%
56	Administration and Support, Waste Management and Remediation Services	10	20%

Job Loss/Gain Information

-33%

This Occupation May Also Be Called:

- environmental systems operator – water treatment
- operator, water purification plant
- process operator, liquid waste
- sewage plant operator
- wastewater treatment plant operator
- water filtration plant operator
- water treatment plant operator

Employment Prospects

No information available at this time.

Employment Requirements

- Completion of secondary school is usually required.
- College, high school or industry training courses in water treatment pollution control are required.
- Certification in water distribution or treatment (Levels I, II or III) is required.
- Certification in workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), and courses in safety practices may be required.
- On-the-job training is provided.
- Previous experience as a labourer or utilities maintenance worker with the same employer may be required.

Working Conditions

No information available at this time.

Links

❖ Professional Associations:

http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=9424&province=35&titleKeyword=&action=final&display=union

- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=9424&province=35&titleKeyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=9424&sort=N>
- ❖ **Work Habits:**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits>
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=9424&province=35&titleKeyword=&action=final&display=job

Waste Treatment Engineer

NOC 2134-A

Occupation Description

These engineers research, design, and develop chemical processes and equipment, oversee the operation and maintenance of industrial chemical, plastics, pharmaceutical, resource, pulp, and food processing plants and perform duties related to chemical quality control, environmental protection and biochemical or biotechnical engineering. Chemical engineers are employed in a wide range of manufacturing and processing industries, consulting firms, government, research and educational institutions.

Total Number of Workers in Sarnia Lambton 310

Number of People Employed in this Occupation in Sarnia Lambton 310

% of People Employed in Sarnia Lambton in this Occupation

Petroleum and Coal Products Manufacturing	NAICS 3241	32.3%
Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing	NAICS 3252	22.6%
Basic Chemical Manufacturing	NAICS 3251	16.1%
Architectural, Engineering and Related Services	NAICS 5413	9.7%

% of Occupations in Sarnia Lambton's Employed Workforce 0.5%

Age Profile of People Who Work in Sarnia Lambton in this Occupation

Years	#	%
15 to 24 years	0	0%
25 to 44 years	120	41.4%
45 to 64 years	160	55.2%
65 + years	10	3.4%

Median Income from Persons in this Occupation in Sarnia Lambton \$111,514

Number of People in Sarnia Lambton's Employed Workforce 300

Top Three Industrial Sectors Based on Full Time Employment in Sarnia Lambton

2 Digit NAICS	Sector	# of People Employed	% of People Employed
31-33	Manufacturing	225	72.6%
54	Professional, scientific and technical services	30	9.7%
41	Wholesale Trade	30	9.7%

Job Loss/Gain Information

-37.4%

This Occupation May Also Be Called:

- adhesives engineer
- biochemical engineer
- biotechnical engineer
- chemical engineer
- environmental, chemical process engineer
- industrial hygiene engineer
- industrial waste treatment engineer
- liquid fuels engineer
- petrochemical engineer
- polymer engineer
- process control engineer
- chemical, project engineer
- chemical, pulp and paper engineer
- refinery engineer

Employment Prospects

Over the next five years: Average

Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. In an economic downturn, chemical manufacturing is expected to decline. However, companies will continue to develop new chemicals especially in areas related to the production of pharmaceuticals and plastics materials which may provide most of the new job opportunities. Chemical engineers will also find good employment opportunities in the service producing industries such as professional, technical and scientific services particularly for research in energy and in the developing fields of biotechnology and nanotechnology.

Employers are seeking increasingly cross-degree scientists. An example of this multidisciplinary path would be a person with chemistry, plus a divergent post-doctoral degree such as cell biology and computer skills.

Employment Requirements

- A bachelor's degree in chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Working Conditions

No information available at this time.

Links

- ❖ **Professional Associations:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2134&province=35&keyword=&action=final&display=union
- ❖ **Local Education & Training Programs:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2134&province=35&keyword=&action=final&display=training
- ❖ **Essential Skills**
<http://skills.edu.gov.on.ca/OSPWeb/jsp/en/nocdetails.jsp?key=2134&sort=D>
- ❖ **Work Habits:**
[http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP Skills and Work Habits](http://skills.edu.gov.on.ca/OSPWeb/jsp/en/OSPskillsandworkhabits.jsp?announcer=OSP%20Skills%20and%20Work%20Habits)
- ❖ **Local Employers:**
http://www.workingincanada.gc.ca/report-eng.do?area=27233&lang=en_CA&noc=2134&province=35&keyword=&action=final&display=job

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SARNIA LAMBTON WORKFORCE DEVELOPMENT BOARD
CATALYSTS FOR LABOUR MARKET CHANGE

For further information contact:

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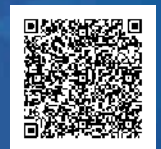
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