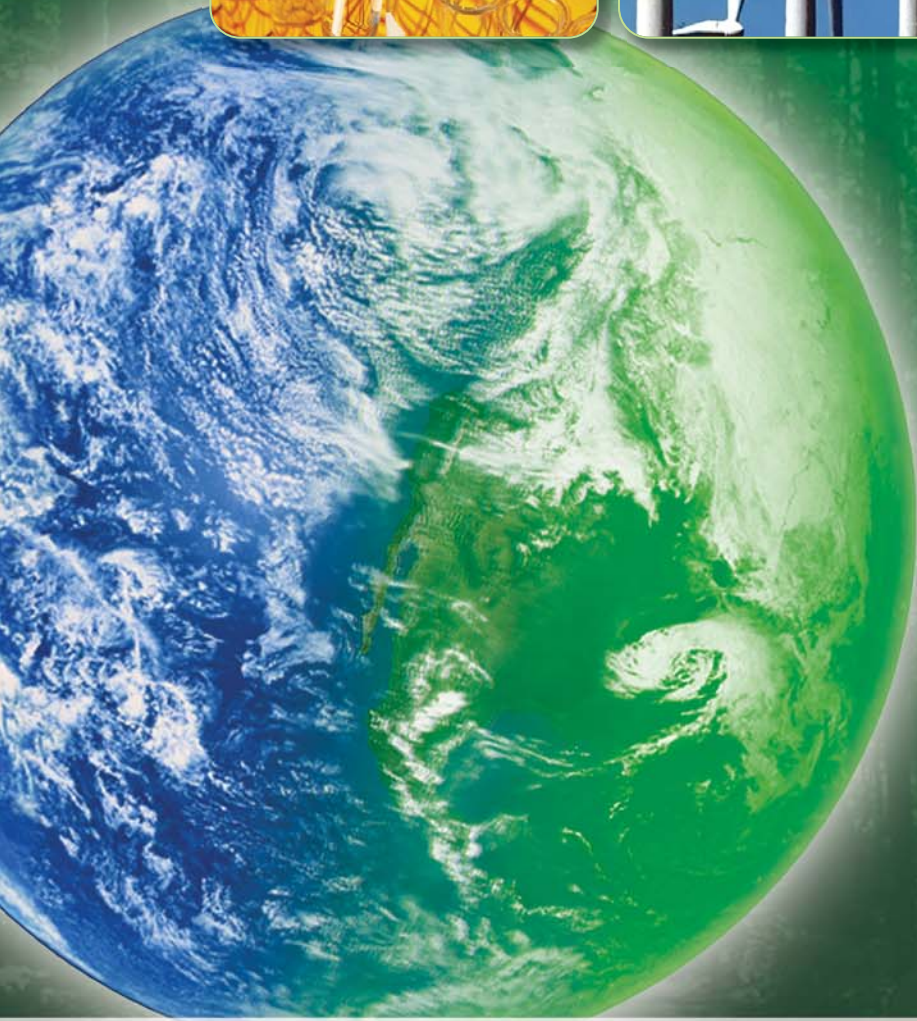


Greening the Economy



Transitioning
to **New**
Careers

MANUFACTURING

**CAREER
PROFILES**

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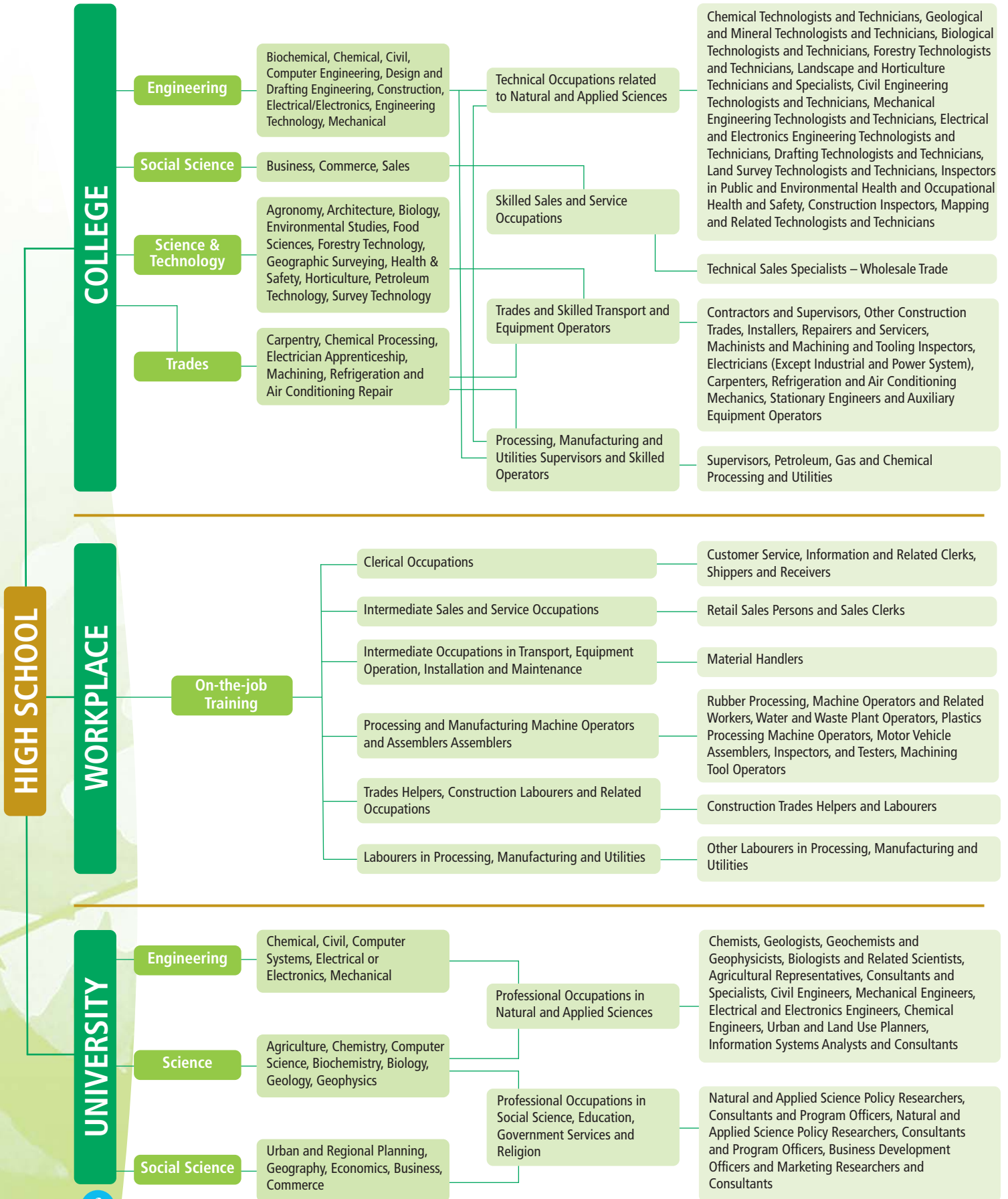
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Educational Flow Chart



Machining Tool Operators

NOC 9511

Machining tool operators study job orders and interpret blueprints to determine machining operations to be performed. They set up and operate or tend metal-cutting machines designed for repetitive machining work. People in this occupational group also etch or chemically mill metal pieces.¹

Places of Employment¹:

- Machine shops
- Metal product companies
- Other manufacturing companies

Employment Requirements¹:

- Some secondary school education is required
- College or other courses in machining may be required
- Several months of on-the-job training are provided
- Senior positions in this unit group, such as set-up operator, require experience as a machine operator

Local Educational Programs:

Program	Length	Certification	Institutions
Mechanical Engineering	4 years, 5 year Industrial Internship Program	Bachelor of Engineering	Ryerson University, University of Toronto
Mechanical Engineering Technician/Technology	2 years (technician) 3 years (technology)	Diploma Advanced Diploma	Centennial College, George Brown College, Sheridan College

Local Union and Training Centre

Labourers Local 506

1600 Major MacKenzie Dr. East, Richmond Hill, Ontario L4S 1P4
Tel: 905-883-4268

Sheet Metal Workers Local 285

234 Atwell Drive, Etobicoke, Ontario M9W 5A3
Tel: 416-249-9626

The most important Essential Skills for this occupation are²:

- Numeracy
- Computer use

The most important High School subjects are³:

- Machine shop
- Computer basics
- Blueprint reading
- Math

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	240	230	95	565
25 – 44 years	1,515	1,960	640	4,115
45 years and over	1,190	1,680	410	3,280
Total Employees	2,945	3,870	1,145	7,960
% 45 years +	40.41%	43.41%	35.81%	41.21%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 42,726
Toronto	\$ 39,778
York Region Brad WG	\$ 46,280
Ontario	\$ 45,064

Machining Tool Operators

NOC 9511

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are a total of 7,960 machining tool operators employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
336 Transportation equipment manufacturing	3,105	38.98%	646	566	-80	-12.38%
332 Fabricated metal product manufacturing	2,555	32.08%	3,024	2,586	-438	-14.48%
333 Machinery manufacturing	1,045	13.12%	2,035	1,828	-207	-10.17%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Additional Information¹:

- Experienced machining tool operators may become machinists or tool and die makers through apprenticeship training

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Machining, Metalworking, Woodworking and Related Machine Operators (NOC 951)
- Machinists and Machining and Tooling Inspectors (NOC 7231)
- Tool and Die Makers (NOC 7232)
- Metalworking Machine Operators (NOC 9514)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Goodrich Landing Gear
1400 South Service Road West
Oakville, Ontario L6L 5Y7
Telephone: 1 905 827 7777
Fax: 1 905 825 1583
www.aerospace.goodrich.com

Microtex Lab Inc.
88 Crockford Blvd., Unit #1
Scarborough, Ontario M1R 5B6
Telephone: 1 416 285 7999
Fax: 1 416 285 1779
www.madeinsteell.com

Boss Steel Limited
565 Edward Ave North
Richmond Hill, Ontario L4W 9W8
Telephone: 1 905 508 8225
Fax: 1 905 508 8475
www.bossteel.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Material Handlers

NOC 7452

This unit group includes workers who ensure that hazardous materials are handled and controlled in a safe manner and in compliance with regulatory requirements. They can be involved in a variety of activities, for example responding to emergencies, safely disposing of hazardous substances, reclaiming sites, or contributing to the development of legislation for hazardous materials. Materials handlers acquire their skills through formal education, specialized training, and work experience. Their expertise is essential to the protection of public health and the environment.¹

Places of Employment¹:

- Transportation, storage and moving companies
- Retail and wholesale warehouses
- Manufacturing and processing companies

Employment Requirements¹:

- Some secondary school education may be required
- Physical strength is required for manual material handlers who work with heavy materials

Local Educational Programs:

Program	Length	Certification	Institutions
Chemical Engineering Technology – Environmental	3 years	Advanced Diploma	Sheridan College
Materials Engineering	4 years	Bachelor of Applied Science Degree	University of Toronto
Mechanical Engineering	4 years, 5 year Industrial Internship Program	Bachelor of Engineering	Ryerson University, University of Toronto
Mechanical Engineering Technology	3 years	Advanced Diploma	Centennial College, George Brown College, Sheridan College
Mechanical Technician – CAD/CAM	2 years	Diploma	Centennial College

Local Union and Training Centre

Labourers Local 506

1600 Major MacKenzie Dr. East, Richmond Hill, Ontario L4S 1P4

Tel: 905-883-4268

The most important Essential Skills for this occupation are²:

- Numeracy
- Oral communication
- Use of memory

The most important High School subjects are³:

- Physical education
- Mechanics
- English
- Math

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	3,705	2,095	670	6,470
25 – 44 years	7,560	5,930	1,530	15,020
45 years and over	5,055	4,460	1,235	10,750
Total Employees	16,320	12,485	3,435	32,240
% 45 years +	30.97%	35.72%	35.95%	33.34%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 39,504
Toronto	\$ 34,481
York Region Brad WG	\$ 38,988
Ontario	\$ 40,264

Material Handlers

NOC 7452

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are a total of 32,235 material handlers employed.
The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
493 Warehousing and storage	3,070	9.52%	534	710	176	32.96%
561 Administrative and support services	2,780	8.62%	20,942	19,811	-1,131	-5.40%
484 Truck transportation	1,960	6.08%	7,272	15,310	8,038	110.53%
336 Transportation equipment manufacturing	1,485	4.61%	646	566	-80	-12.38%
414 Personal and household goods wholesaler-distributors	1,445	4.48%	5,324	5,233	-91	-1.71%
413 Food, beverage and tobacco wholesaler-distributors	1,310	4.06%	2,402	2,556	154	6.41%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations.

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Crane Operators, Drillers and Blasters (NOC 737)
- Other Transport Equipment Operators and Related Workers (NOC 743)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Guycan Plastics Limited

4 Alfred Kuehne Blvd., Unit # 2,3
Brampton, Ontario L6T 4N3
Telephone: 1 905 799 3636
Fax: 1 905 799 2374
www.guycanplastics.com

Casco Inc.

405 The West Mall, Suite 600
Etobicoke, Ontario M9C 0A1
Telephone: 1 416 620 2300
Fax: 1 416 620 4488
www.casco.ca

Canadian Pacific Railway

6830 Rutherford Road
Vaughan, Ontario L0L 1C0
Telephone: 1 905 893 5054
Fax: 1 905 893 5061
www.cpr.ca

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Motor Vehicle Assemblers, Inspectors and Testers

NOC 9482

Motor vehicle assemblers assemble and install prefabricated motor vehicle parts and components to form subassemblies and finished motor vehicles. Motor vehicle inspectors and testers inspect and test parts, subassemblies, accessories and finished products to ensure proper performance and conformity to quality standards.¹

Places of Employment¹:

- Automobile manufacturers

Employment Requirements¹:

- Completion of secondary school is usually required
- Skills required for occupations in this unit group are normally acquired through on-the-job training

Local Union and Training Centre

Labourers Local 506

1600 Major MacKenzie Dr. East, Richmond Hill, Ontario L4S 1P4

Tel: 905-883-4268

The most important Essential Skills for this occupation are²:

- Reading text
- Writing
- Document use
- Thinking skills

The most important High School subjects are³:

- Mechanics
- English
- Math
- Science

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	950	290	415	1,655
25 – 44 years	4,290	3,235	2,125	9,650
45 years and over	2,805	2,855	1,800	7,460
Total Employees	8,045	6,380	4,340	18,765
% 45 years +	34.87%	44.75%	41.47%	39.75%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 53,463
Toronto	\$ 42,844
York Region Brad WG	\$ 44,594
Ontario	\$ 54,550

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are 4,335 motor vehicle assemblers, inspectors and testers employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
336 Transportation equipment manufacturing	13,320	71.00%	646	566	-80	-12.38%
332 Fabricated metal product manufacturing	1,865	9.94%	3,024	2,586	-438	-14.48%
326 Plastics and rubber products manufacturing	950	5.06%	955	785	-170	-17.80%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Motor Vehicle Assemblers, Inspectors and Testers

NOC 9482

Additional Information¹:

- Mobility is possible to jobs in the same production department
- Progression to supervisory positions is possible with experience

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Supervisors, Assembly and Fabrication (NOC 922)
- Other Assembly and Related Occupations (NOC 949)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Ford Motor Co, Oakville Assembly Plant

The Canadian Road
Oakville, Ontario L6J 5C9
Telephone: 1 905 845 2511
Fax: 1 905 845 0159
www.ford.ca

TrakCon Drive Systems

31 Hiram Road
Richmond Hill, Ontario L4C 9E6
Telephone: 1 416 987 0279
Fax: 1 302 264 3421
www.trakcon.com

Magna International Inc.

337 Magna Dr.
Aurora, Ontario L4G 7K1
Telephone: 1 905 726 7156
Fax: 1 905 726 7494
www.magna.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Other Labourers in Processing, Manufacturing and Utilities

NOC 9619

This unit group includes labourers, not elsewhere classified, who perform material handling, clean-up, packaging and other elemental activities in processing, manufacturing and utilities¹

Places of Employment¹:

- Various manufacturing companies
- Printing and packaging companies

Employment Requirements¹:

- Some secondary school education may be required

Local Union and Training Centre

LIUNA Local 183 Training Centre

8700 Huntington Road, Woodbridge, Ontario

Tel: 416-242-7551 Fax: 416-242-7785 www.183training.com

Labourers Local 506

1600 Major MacKenzie Dr. East, Richmond Hill, Ontario L4S 1P4

Tel: 905-883-4268

The most important Essential Skills for this occupation are²:

- Reading text
- Document use
- Numeracy
- Thinking skills

The most important High School subjects are³:

- Industrial arts
- Math
- English

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	1,015	1,125	220	2,360
25 – 44 years	3,840	4,985	1,160	9,985
45 years and over	3,015	4,395	1,135	8,545
Total Employees	7,870	10,505	2,515	20,890
% 45 years +	38.31%	41.84%	45.13%	40.90%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary	based on 2006 Census Data ⁴
Peel Halton	\$ 30,786
Toronto	\$ 29,168
York Region Brad WG	\$ 33,549
Ontario	\$ 33,882

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are 20,890 other labourers in process, manufacturing and utilities employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
561 Administrative and support services	4,045	19.35%	20,942	19,811	-1,131	-5.40%
323 Printing and related support activities	2,480	11.87%	2,601	2,055	-546	-20.99%
337 Furniture and related product manufacturing	1,515	7.25%	1,479	1,287	-192	-12.98%
339 Miscellaneous manufacturing	1,200	5.74%	2,215	2,010	-205	-9.26%
325 Chemical manufacturing	1,110	5.31%	881	690	-191	-21.68%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Other Labourers in Processing, Manufacturing and Utilities

NOC 9619

Additional Information¹:

- There is some mobility among occupations in this unit group
- Progression to machine operating positions is possible with experience

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Machine Operators and Related Workers in Food, Beverage and Tobacco Processing (NOC 946)
- Machine Operators and Related Workers in Metal and Mineral Products Processing (NOC 941)
- Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing (NOC 942)
- Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing (NOC 943)
- Machine Operators and Related Workers in Textile Processing (NOC 944)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Kinequip Automation

333 Wyecroft Road, Unit 8
Oakville, Ontario L6K 2H2
Telephone: 1 905 465 0492
Fax: 1 905 465 0174
www.kinequip.com

Emporium Railings Inc.

213 Habitant Drive
North York, Ontario M9M 2P4
Telephone: 1 647 890 2724
www.emporiumrailings.com

Integrated Graphics Corporation

35 Romina Drive
Concord, Ontario L4K 4Z9
Telephone: 1 905 760 8860
Fax: 1 905 760 9490
www.igprinter.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Plastics Processing Machine Operators

NOC 9422

Plastics processing machine operators set up and operate plastic mixing, calendaring, extruding and moulding processing machines used in the manufacture of plastic parts and plastic products.¹

Places of Employment¹:

- Plastic products manufacturing companies

Employment Requirements¹:

- For all operators in this unit group, completion of secondary school may be required
- On-the-job training is provided
- Several years of experience as a helper, tender or packer in the same company may be required
- Completion of a statistical process control (SPC) course may be required
- Completion of courses in hydraulics, pneumatics and electronics systems may be required for moulding process operators

Local Union and Training Centre

Labourers Local 506

1600 Major MacKenzie Dr. East, Richmond Hill, Ontario L4S 1P4

Tel: 905-883-4268

The most important Essential Skills for this occupation are²:

- Reading text
- Document use
- Numeracy
- Thinking skills

The most important High School subjects are³:

- Machine shop
- Sciences
- Math
- Computer basics
- English

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	240	205	55	500
25 – 44 years	2,035	2,200	500	4,735
45 years and over	1,530	1,735	555	3,820
Total Employees	3,805	4,140	1,110	9,055
% 45 years +	40.21%	41.91%	50.00%	42.19%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 36,957
Toronto	\$ 32,429
York Region Brad WG	\$ 42,982
Ontario	\$ 39,171

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are 9,055 plastics processing machine operators employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
326 Plastics and rubber products manufacturing	7,770	86.00%	955	785	-170	-17.80%
333 Machinery manufacturing	225	2.49%	2,035	1,828	-207	-10.17%
336 Transportation equipment manufacturing	195	2.16%	646	566	-80	-12.38%

Source: Statistics Canada, 2006 Census; Statistics Canada, Canadian Business Patterns Data, December 2003, June 2009.

Plastics Processing Machine Operators

NOC 9422

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Machine Operators and Related Workers in Metal and Mineral Products Processing (NOC 941)
- Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing (NOC 943)
- Labourers in Processing, Manufacturing and Utilities (NOC 961)
- Central Control and Process Operators in Manufacturing and Processing (NOC 923)
- Supervisors, Processing Occupations (NOC 921)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Engineered Plastics Inc.

1400 Cornwall Road, Unit 6
Oakville, Ontario L6J 7W5
Telephone: 1 905 847 3040
Fax: 1 905 847 0870
www.engplastics.com

3D Mould & Manufacturing Ltd.

1365 Morningside Ave., Unit 8
Scarborough, Ontario M1B 4Y5
Telephone: 1 416 412 7836
Fax: 1 416 412 3172
www.3dmouldmfgltd.com

Vicro Research Inc.

130 Buttermill Ave.
Concord, Ontario L4K 3X6
Telephone: 1 905 738 1251
Fax: 1 905 738 3737
www.vicroresearch.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Rubber Processing Machine Operators and Related Workers

NOC 9423

Workers in this unit group operate rubber processing machinery and assemble and inspect rubber products.¹

Places of Employment¹:

- Tire manufacturers
- Other rubber products manufacturing

Employment Requirements¹:

- Completion of secondary school may be required
- Experience as a labourer in the same company may be required
- On-the-job training is provided

Local Union and Training Centre

Labourers Local 506

1600 Major MacKenzie Dr. East, Richmond Hill, Ontario L4S 1P4

Tel: 905-883-4268

The most important Essential Skills for this occupation are²:

- Reading text
- Writing
- Document use
- Numeracy
- Thinking skills

The most important High School subjects are³:

- Machine shop
- Sciences
- Math
- Computer basics
- English

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	10	30	0	40
25 – 44 years	135	250	10	395
45 years and over	155	180	40	375
Total Employees	300	460	50	810
% 45 years +	51.67%	39.13%	80.00%	46.30%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 41,024
Toronto	\$ 33,815
York Region Brad WG	\$ 46,575
Ontario	\$ 43,974

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are 810 rubber processing machine operators employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
326 Plastics and rubber products manufacturing	555	68.52%	955	785	-170	-17.80%
339 Miscellaneous manufacturing	60	7.41%	2,215	2,010	-205	-9.26%
336 Transportation equipment manufacturing	55	6.79%	646	566	-80	-12.38%
325 Chemical manufacturing	50	6.17%	881	690	-191	-21.68%

Source: Statistics Canada, 2006 Census; Statistics Canada, Canadian Business Patterns Data, December 2003, June 2009.

Rubber Processing Machine Operators and Related Workers

NOC 9423

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Machine Operators and Related Workers in Metal and Mineral Products Processing (NOC 941)
- Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing (NOC 943)
- Labourers in Processing, Manufacturing and Utilities (NOC 961)
- Central Control and Process Operators in Manufacturing and Processing (NOC 923)
- Supervisors, Processing Occupations (NOC 921)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Habasit Canada Ltd.

2275 Bristol Circle
Oakville, Ontario L6H 6P8
Telephone: 1 905 827 4131
Fax: 1 905 825 2612
www.habasit.ca

Hansa-Flex Hydraulics Canada Inc.

295 Connie Crescent
Concord, Ontario L4K 5R2
Telephone: 1 416 760 2224
Fax: 1 416 760 0150
www.hansa-flex.ca

Trimbo Window Manufacturing Inc.

301 Trowers Road
Woodbridge, Ontario L4L 5Z9
Telephone: 1 905 851 3466
Fax: 1 905 850 3545
www.trimbowindow.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Sales, Marketing and Advertising Managers

NOC 0611

Sales, marketing and advertising managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial, wholesale and e-business sales, marketing, advertising and public relations.¹

Places of Employment¹:

- Commercial, industrial and wholesale establishments
- Marketing and public relations consulting companies
- Government departments
- Advertising firms
- Financial services, insurance and investment firms

Employment Requirements¹:

- Sales and marketing managers require a university degree or college diploma in business administration or in a related field with a specialization in sales or marketing and several years of experience as a sales or marketing representative or in a related occupation are required
- Advertising and public relations managers require a university degree or college diploma in public relations, communications, marketing, journalism or in a related field and several years of experience as an advertising officer, public relations officer or communications officer or in a related occupation are required
- E-business managers require a university degree or college diploma in a field related to Web site content and experience in web site design, interactive media development, data administration or information systems analysis or experience related to Web site content are usually required

Local Educational Programs:

Program	Length	Certification	Institutions
Advertising	3 years	Diploma	Centennial College, Humber College, Sheridan College
Business Administration	4 years	Degree	Ryerson University, University of Toronto, York University
Business Administration	3 years	Diploma	Centennial College, George Brown College, Humber College, Seneca College, Sheridan College
Computer Science – Information Systems	4 years	Degree	Ryerson University, University of Toronto, York University
Marketing	4 years	Degree	Ryerson University, University of Toronto, York University
Marketing	3 years	Diploma	Centennial College, George Brown College, Humber College, Seneca College, Sheridan College
Public Relations	3 years	Degree	Humber College
Web Design/Development	3 years	Diploma	Humber College, Sheridan College

The most important Essential Skills for this occupation are²:

- Document use
- Numeracy
- Computer use

Sales, Marketing and Advertising Managers

NOC 0611

Number of Employees by Age Range³:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	305	745	225	1,275
25 – 44 years	8,715	14,770	4,620	28,105
45 years and over	6,045	7,370	3,295	16,710
Total Employees	15,065	22,885	8,140	46,090
% 45 years +	40.13%	32.20%	40.48%	36.26%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ³	
Peel Halton	\$ 95,496
Toronto	\$ 90,986
York Region Brad WG	\$ 92,575
Ontario	\$ 89,068

Top Industries of Employment for 3 regions³:

Across all three regions, there are 46,090 sales, marketing and advertising managers employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total
541 Professional, scientific and technical services	8,040	17.44%
417 Machinery, equipment and supplies wholesaler-distributors	3,990	8.66%
414 Personal and household goods wholesaler-distributors	3,475	7.54%
413 Food, beverage and tobacco wholesaler-distributors	2,240	4.86%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Related Occupations¹:

- Professional Occupations in Public Relations and Communications (NOC 5124)
- Retail Trade Managers (NOC 0621)
- Retail Trade Supervisors (NOC 6211)
- Senior Managers - Trade, Broadcasting and Other Services, n.e.c. (NOC 0015)
- Supervisor of Technical Salespersons (NOC 6221)
- Wholesale Trade Representatives Supervisor (NOC 6411)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Hewlett Packard
5150 Spectrum Way
Mississauga, ON L4W 5G1
www.hp.com

SDI Marketing
200 - 65 International Blvd
Toronto, ON M9W 6L9
www.sdimarketing.com

Wave Media Corp.
4300 Steeles Ave West Unit 31
Woodbridge, Ontario L4L 4C2
www.wavemediacorp.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Statistics Canada. 2006 Census. www.statcan.gc.ca.

Shippers and Receivers

NOC 1471

Shippers and receivers ship, receive and record the movement of parts, supplies, materials, equipment and stock to and from an establishment.¹

Places of Employment¹:

- Public sector
- Retail and wholesale companies
- Manufacturing companies
- Other commercial and industrial establishment

Employment Requirements¹:

- Completion of secondary school is usually required
- Experience in a related clerical occupation or as a warehouse worker may be required
- Forklift certificate may be required
- Driver's licence may be required

Local Educational Programs:

Program	Length	Certification	Institutions
Business	3 years	Advanced Diploma	Centennial College, George Brown College, Humber College, Seneca College, Sheridan College

The most important Essential Skills for this occupation are²:

- Reading text
- Numeracy
- Thinking skills

The most important High School subjects are³:

- Business
- Computer basics
- Math
- English

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	1,805	1,420	555	3,780
25 – 44 years	5,440	5,785	1,460	12,685
45 years and over	3,585	3,835	1,280	8,700
Total Employees	10,830	11,040	3,295	25,165
% 45 years +	33.10%	34.74%	38.85%	34.57%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 37,968
Toronto	\$ 34,202
York Region Brad WG	\$ 37,725
Ontario	\$ 36,983

Shippers and Receivers

NOC 1471

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are 25,165 shippers and receivers employed.
The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
414 Personal and household goods wholesaler-distributors	1,875	7.45%	5,324	5,233	-91	-1.71%
417 Machinery, equipment and supplies wholesaler-distributors	1,560	6.20%	6,146	5,567	-579	-9.42%
493 Warehousing and storage	1,160	4.61%	534	710	176	32.96%
452 General merchandise stores	1,145	4.55%	1,923	1,787	-136	-7.07%
416 Building material and supplies wholesaler-distributors	1,105	4.39%	2,945	2,892	-53	-1.80%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Additional Information¹:

- Progression to supervisory positions is possible with additional training or experience

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Mail and Message Distribution Occupations (NOC 146)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Ronco Freight International Inc.
208 Wycroft Road, Suite 202
Oakville, Ontario L6K 3T8
Telephone: 1 905 847 5524
Fax: 1 905 847 3903
www.ronfreight.com

The Parts Man Inc.
4544 Dufferin St.
Toronto, Ontario M3H 5X2
Telephone: 1 416 388 8918
www.partsmaninc.com

Magnotta Winery Corporation
271 Chrislea Road
Woodbridge, Ontario L4L 8N6
Telephone: 1 905 738 9463
Fax: 1 905 738 5551
www.magnotta.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

Stationary Engineers and Auxiliary Equipment Operators

NOC 7351

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.¹

Places of Employment¹:

- Industrial and manufacturing plants
- Hospitals
- Universities
- Government
- Utility companies
- Hotels
- Other commercial establishments

Employment Requirements¹:

- 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

Local Educational Programs:

Program	Length	Certification	Institutions
Environmental Engineering	4 years	Bachelor of Engineering	University of Toronto
Industrial Engineering	4 years, 5 year Industrial Internship Program	Bachelor of Engineering	Ryerson University
Mechanical Engineering Technology	3 years	Diploma	Centennial College, George Brown College, Seneca College Sheridan College

The most important Essential Skills for this occupation are²:

- Reading text
- Document use

The most important High School subjects are³:

- Industrial arts
- Math
- Physics
- Computer basics
- English

Number of Employees by Age Range⁴:

Employees by Age Range	Peel Halton	Toronto	York Region Brad WG	Total
15 – 24 years	0	0	0	0
25 – 44 years	70	75	30	175
45 years and over	230	285	105	620
Total Employees	300	360	135	795
% 45 years +	76.67%	79.17%	77.78%	77.99%

Source: Statistics Canada, 2006 Census

Average Salary

Average Salary based on 2006 Census Data ⁴	
Peel Halton	\$ 76,182
Toronto	\$ 66,112
York Region Brad WG	\$ 67,869
Ontario	\$ 74,307

Stationary Engineers and Auxiliary Equipment Operators

NOC 7351

Top Industries of Employment for 3 regions^{4,5}:

Across all three regions there are 795 stationary engineers and auxiliary equipment operators employed. The top industries of employment are:

Industry (NAICS)	Number of People Employed	% of Total	Number of Employers Dec 2003	Number of Employers Jun 2009	Absolute Change % 03 - 09	Change 03 - 09
611 Educational services	140	17.72%	3,956	4,854	898	22.70%
622 Hospitals	90	11.39%	100	82	-18	-18.00%
221 Utilities	80	10.13%	180	281	101	56.11%

Source: Statistics Canada, 2006 Census; Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009.

Additional Information¹:

- Progression from lower to higher classes for stationary or power engineers is dependent on further training and experience

Matrix of Skills Transferability⁶:

Transferability between occupations has been analyzed using the National Occupational Coding system. Judgments have been made based on an analysis of available information regarding the overlap of knowledge and skills and labour market hiring practices for occupations. Occupations to which transferability exists are:

There are no direct occupations linked to this occupation based on the matrix of skills transferability. However, the following have been identified as related occupations:

- Mechanical Engineers (NOC 2132)
- Central Control and Process Operators in Manufacturing and Processing (NOC 923)

Local Employers:

The following list of employers was randomly selected as examples of companies employing this occupation. An attempt was made to represent a company from each local board area.

Power Save Solutions Inc.
200 North Service Road West, Unit 1, Suite 525
Oakville, Ontario L6M 2Y1
Telephone: 1 905 465 2275
Fax: 1 905 465 2295
www.powersavesolutions.com

The Rotman Research Institute - Baycrest
3560 Bathurst Street
Toronto, Ontario M6A 2E1
Telephone: 1 416 785 2500 ext. 3550
Fax: 1 416 785 2862
www.rotman-baycrest.on.ca

LGI Consulting Engineers Inc.
588 Edward Avenue, Unit 49
Richmond Hill, Ontario L4C 9Y6
Telephone: 1 905 884 0911
Fax: 1 905 884 0790
www.lgiengineers.com

For a more complete listing of potential employers please visit www.labourmarketinformation.ca.

ENDNOTES

¹Human Resources Skills Development Canada. National Occupational Classification System 2006. www5.hrsdc.gc.ca/NOC.

²Human Resources Skills Development Canada. Essential Skills Profiles. www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

³Service Canada. Job Futures – National Edition. 2007. www.jobfutures.ca.

⁴Statistics Canada. 2006 Census. www.statcan.gc.ca.
Note: These salaries represent an average of both unionized and non-unionized workers. Salaries may vary by workplace.

⁵Statistics Canada. Canadian Business Patterns Data. December 2003, June 2009. www.statcan.gc.ca.

⁶Human Resources Skills Development Canada. Matrix of Skills Transferability – January 2003. www.hrsdc.gc.ca.

