



# JOBS IN Manufacturing

OUR LAND. OUR POSSIBILITIES.



SKILLS  
COMPÉTENCES  
CANADA

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NUNAVUT<sup>®</sup>





# JOBS IN Manufacturing

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## Introduction

### Manufacturing in Nunavut

The manufacturing industry is small in Nunavut. However, small-scale production of goods greatly benefits the community. Nunavut's economy continues to be based on the harvesting traditions of the Inuit people. The Department of Economic Development & Transportation suggests that the harvesting economy is worth at least \$40 million annually and provides many families with an affordable and important source of nutritious food. Fishing, sealing, and the manufacturing of Inuit art are just a few of the industries that produce manufactured goods that can be used and/or sold to others.

### Manufacturing opportunities in other provinces and territories in Canada

Other provinces and territories in Canada offer many opportunities for skilled workers in the manufacturing industry. For example, Ontario's key manufacturing industries include automotive, food processing, and computer and electronics. Quebec manufactures food, transportation equipment and primary metals.



## What is manufacturing?

Workers in the manufacturing sector transform raw materials into actual goods and products that can be used or sold to others. Manufacturing is a broad term that includes several different industries. Some activities in this sector include the manufacturing of clothing, food processing, and the fabrication of textile products. For example, workers in the textiles industry manufacture art, clothing, fabric products, and more.

Manufacturing also provides equipment for exploring, developing, extracting, processing and distributing resources from land and oceans. This includes equipment like fishing boats, railway locomotives, mining equipment and supplies, and machinery for transforming oil, natural gas and coal into chemicals, textiles, paints, and other items. The list goes on.

There are many opportunities in the manufacturing industry, both in Nunavut and in other provinces and territories in Canada. People who work in the manufacturing sector have important skills that are required to keep Canada competitive with other countries.

Nunavut offers many opportunities for people who want to work in the manufacturing sector. Some activities include:

**Fishing and sealing.** Nunavut is successfully establishing new commercial turbot, shrimp, and char fisheries that offer global markets access to a unique range of products. The turbot fishery is a major employer in the Baffin region, with the Kivalliq and Kitikmeot regions involved mainly in char fishery. Fisheries provide an important and growing contribution to the territory's economy.

Sealing continues to provide a sustainable livelihood for many Inuit, and is a major contributor to local economies. According to the Department of Economic Development & Transportation, the value of products made from sealskin is more than \$1.5 million. There are many opportunities in fishing and sealing which directly benefit Inuit communities by selling local products to businesses outside of our territory.

**Inuit art.** The arts and crafts sector is a key contributor to the Nunavut economy. Annual sales are estimated to be in excess of \$30 million, and this will grow to as much as \$50 million by the year 2013. The production of Inuit art continues to play an important role in the economies of many of Nunavut's communities. Over 27 percent of Nunavut's population is involved at some level of arts production. Many of the territory's artists have received international recognition. While most Canadians are familiar with soapstone carvings and prints from communities such as Cape Dorset and Baker Lake, internationally recognized tapestries and weavings are being produced in Pangnirtung.



To find out more about Inuit art training opportunities, contact your local Nunavut Arctic College office. Nunavut Arctic College offers programs such as Jewellery and Metalwork, Small Business Fundamentals for the Artist, or the Textiles Certification Program.

## **Will there be jobs in manufacturing?**

According to Canadian manufacturers and exporters, one of the main challenges for Canadian manufacturers is the availability of skilled workers. And yet, manufacturing is the largest business sector in Canada. Because we depend on the manufacturing industry to make goods and products we use every day, well-trained, skilled workers are needed. Many of the occupations in manufacturing require skilled workers who focus on detail to produce quality products.

## **What jobs will there be in manufacturing?**

Jobs in the manufacturing industry can be quite different, depending on what is being manufactured. Some products require more specialized and technical skills than others.



Here is a list of manufacturing industries that might be of interest to you:

- Automotive
- Aerospace
- Building Products (wood and metal)
- Computer Equipment
- Electrical Power Equipment and Services
- Giftware and Crafts
- Oil and Gas
- Plastics

Go to the Industry Canada website at [www.ic.gc.ca/epic/site/ic-ic.nsf/en/h\\_dh00004e.html](http://www.ic.gc.ca/epic/site/ic-ic.nsf/en/h_dh00004e.html) to get more information on these and many more manufacturing industries that are available. There are many different types of jobs within the manufacturing industry that require varying degrees of education, skills and experience.



## Entry-level jobs

Entry-level jobs usually require a Grade 10 education, or a high school diploma. Basic math skills and good reading and writing skills are an asset. These jobs may require little or no previous experience.

Job	Description
Production/Factory Worker	Involved in manufacturing all kinds of products, and duties can vary from light to heavy, routine or specialized
Materials Clerk	Coordinates handling and shipping of inventory. Deals with the public

## Technical jobs

You need a technical college diploma, which often takes one to two years to complete.

Job	Description
Aerospace Manufacturing Engineering Technician	Works on designing and manufacturing aircraft, missiles, satellites and space vehicles
Manufacturing Technician	Trained with competence in plant operations, scheduling, inventory control, materials management, quality assurance, and more



## Apprenticeship trades and occupations

These jobs require that you be a journeyman or certified tradesperson. The majority of jobs within the manufacturing sector fall within the trades and equipment operator occupations requiring skills-specific training and certification.

Job	Description
Crane and Hoisting Equipment Operator	Operates and maintains specific types of cranes or draglines that lift, move, position or place machinery, equipment and other large objects
Industrial Mechanic (Millwright)	Maintains and repairs stationary industrial machinery, mechanical equipment and automated and robotic systems; often involved with installing, maintaining, repairing and removing machinery and equipment in industrial plants and factories
Power System Electrician	Installs, maintains and repairs electrical power generation, transmission and distribution systems equipment
Machinist	Sets up and operates precision metal cutting and grinding machines such as lathes, milling machines, drills, shapers, boring mills and grinders; uses this variety of equipment to manufacture, install, operate, adjust and repair machine tools and other machines in common use
Welder	Permanently joins pieces of metal with metal filler using heat and/or pressure throughout the manufacturing process, builds structures and repair broken or cracked parts
Tool and Die Maker	Makes, repairs and modifies custom made or special tools, dies, jigs, fixtures and gauges to very precise dimensions; operates lathes, grinders, milling and boring machines

## Management and supervisory jobs

These jobs usually require post-secondary education. However, years of experience and skill level can lead to advancement into management and/or supervisory positions.

Job	Description
Production Manager	Oversees the production process in all types of manufacturing operations; ensures that orders are met on time and products are of the right quality
Production Supervisor	Responsible for the day-to-day running of a production area or process; manages production workers and other resources to make sure that production targets are met
Manufacturing Supervisor	Responsible for the day-to-day running of the production process; ensures that the manufacturing process is running smoothly; deals with problems like work absences, machinery breakdown, health and safety issues and industrial relations

## Professional jobs

Most professional and management jobs require a university degree. A degree in engineering can lead you to a career in the manufacturing sector.

Job	Description
Manufacturing Engineer	Concerned with the design, analysis, production, and even after-sale services of engineering and consumer products; hired in industries such as aerospace, food and beverage, automotive, pharmaceutical and cosmetics, computer, and apparel
Mechanical Engineer	Concerned with the design, manufacture, installation, operation and maintenance of all kinds of machines; ability to work in a wide variety of areas within industry, from design and research to manufacturing and maintenance of mechanical and industrial processes
Materials Engineer	Involved in the production of primary materials (such as metals and ceramics), the processing of materials, and the manufacture of final products

## Working conditions

Working conditions in the manufacturing industry differ depending on what product is being manufactured, and what position you have. People who work in the manufacturing industry must pay close attention to detail, have good hand-eye co-ordination, and excellent concentration skills.

**Environment.** Work usually takes place in a secure facility in a commercial area within the community.

**Hours.** Work in the industry is available year round. Employees are likely to work a regular 8-hour day, Monday to Friday. There are opportunities for extra hours.

**Wages.** Depending on the industry, wages can be competitive with other manufacturing businesses.

There are many opportunities in the industry to advance and earn better wages when you gain experience and improve your skill level.

## Where to get training

### Nunavut Arctic College

Nunavut Arctic Colleges offers many courses and/or programs that could lead you to a job in manufacturing. Some include Jewellery and Metalwork or the Textiles Certificate Program. If you are interested in management or supervisory jobs, the Management Studies program might be of interest to you.

### Southern colleges

The manufacturing industry needs trained, well-educated and skilled workers. It is important to remember that the manufacturing industry is broad. There are many courses and programs that can lead you to a career in the manufacturing industry. For example, Holland College in Prince Edward Island offers the Wood Manufacturing and Cabinetmaking program, and Confederation College in Ontario offers the Aerospace Manufacturing Engineering Technician program. Skills acquired in these programs are easily transferable to other manufacturers including the automotive, bus, railcar and general manufacturing sector.

## University programs


University programs leading to a career in the manufacturing industry include chemical, electrical, industrial, materials science or mechanical engineering. The University of Windsor, Ontario, has a Industrial and Manufacturing Systems Engineering department. The University of Manitoba offers a program in manufacturing engineering that allows you to travel to another country to pursue part of your studies. There are so many opportunities in the field of manufacturing!

For more information about college and university program offerings, contact your local Career Development Officer or do a search on the Internet to find program course calendars.

## Apprenticeship training and occupational certification

Many jobs in the manufacturing sector require trade certification. Apprenticeship is a high-quality, post-secondary option that gives you the opportunity to combine on-the-job and in-school technical training. Once completed, you will have the skills to become a certified tradesperson. Many of the jobs in the manufacturing industry and its service industries require certification in a trade. With certification, you can make more money, work independently and find jobs much more easily. It is important to pick a trade that suits you based on your interests and skills.

## What steps do I take to start an apprenticeship program?



There is not a set level of education needed to take an apprenticeship but many employers want apprentices with high school diplomas.

You need to pass the Trades Entrance Exam.

Find an employer to hire you, or take a pre-employment trades program through Nunavut Arctic College.

Register as an apprentice and sign a work agreement with your employer.

Contact your local Career Centre to get more information about apprenticeship or occupational certification or visit [www.apprenticeshiptrades.ca](http://www.apprenticeshiptrades.ca) to learn more about becoming an apprentice.



## Financial assistance

The Nunavut Student Financial Assistance Program is available if you require financial help during your studies. To see if you qualify, contact:

FANS (Financial Assistance for Nunavut Students)  
Nunavut Department of Education  
PO Box 390  
Arviat, NU X0C 0E0

Telephone: (867) 857-3085  
Toll-free: 1-877-860-0680  
Email: fans@gov.nu.ca



## How to apply for a job in manufacturing

To apply for a job, send your résumé and a cover letter to the Government of Nunavut and to all of the companies where you would like to work. Your regional Career Centre can help you write your résumé and cover letter.

Remember! Some companies post electronic applications online. If you want to be considered for any position, make sure you fill out the application if it is posted on the company's Internet web page.

If you are interested in a career in the manufacturing sector, try reading different job postings to get an idea of some of the job skills and responsibilities required for certain positions. Look for advertised manufacturing jobs in the newspapers or on the company websites.

The following websites are a good start for your job search:

- [www.nunatsiaqnews.com](http://www.nunatsiaqnews.com) and click on “Jobs” under the Current Ads section
- [www.gov.nu.ca](http://www.gov.nu.ca) and click on “Employment” for jobs with the Government of Nunavut

## Career planning

### Take control of your career and future

Career planning starts in your youth and continues throughout adulthood where you decide what training and education you want. In order to be successful in your career, you need to find the best fit between your interests, skills, and values. Planning today will help you find a job that you truly love doing in the future.

Your regional Career Centre can help you find career training and employment information, write résumés, apply for jobs, and prepare for a job interview. Take the first step of your career by contacting a Career Centre to learn about all the possibilities that await you.

## Nunavut Apprenticeship Contacts

### Career Development Officers

Qikiqtaaluk (Baffin) region	(800) 567-1514
Kivalliq region	(800) 953-8516
Kitikmeot region	(800) 953-8516
Iqaluit	(867) 975-6573

Supervisor of Apprenticeship	(867) 975-5658
Registrar of Apprenticeship	(867) 857-3079

### Skills Canada Nunavut

P.O. Box 1000, Stn. 940  
Iqaluit, Nunavut X0A 0H0

☎ (867) 975-6574

📠 (867) 975-6572

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