



MANITOBA'S SUSTAINABLE PROTEIN ADVANTAGE

PROTEINMB.CA

CAREER VIEWBOOK INDEX

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EXPLORE YOUR CAREER OPTIONS WITH CME'S CAREER VIEWBOOK



HOW TO USE THIS VIEWBOOK

Are you wondering what's next after high school? Maybe you've taken your next step but aren't entirely sure where it will take you? Thinking about building a career can be intimidating and it is important to collect as much information as you can in order to make some of these tough decisions. CME strives to empower you with the ability to seek and find what inspires you every day, show you how you can build a career around what makes you tick – and more importantly – choose a career you can be proud of.

In your hands is a behind-the-scenes glimpse into the world of manufacturing and its many career paths including the dynamic sustainable protein sector. This book contains 20 profiles of in-demand careers across our province. These career profiles will allow you to explore a variety of opportunities that manufacturing has to offer, all from the comfort of your home or classroom. Each profile contains important information like career earnings potential, recommended education pathways and stories that will bring you into a day in the life of a manufacturing professional at various stages in their careers. In 2019, Manitoba released it's Protein Strategy, focusing on growing the animal and plant protein sector by adding value through targeted innovation and value chain collaboration, to create jobs in the protein sector that nurture

and benefit all people, local environment, and the climate. This book identifies the cross section of manufacturing and the sustainable protein sectors by including the ProteinMB logo in the subsector demand category on each page. The profiles reflect a mid-level position in the field of choice, and the salary ranges that are identified are based on Statistics Canada averages for those careers. It is important to note that these are not starting salaries, and that each company and each sector have pay scales that may differ from one another.

You'll also see cool products that we make in Manitoba and learn how you can get involved in opportunities such as tours, training and so much more! Read with a friend, a parent or take some time just for you to explore what the world of manufacturing has to offer!

WHAT IS MANUFACTURING, ANYWAY?

Manufacturing is the process of taking different materials and creating a new product, by hand or equipment. Jobs in manufacturing span the full range of activities involved in producing a product or service, from raw materials like durum wheat to the final delivery of a pizza to customers and beyond. You might think of cars, furniture, and windows, but do you also think of moccasins, cheese, and hockey skates? If not, this book is here to help you understand the many career options that are available in Manitoba's biggest business sector.

More than 63,000 people in Manitoba work in manufacturing, 21% of those jobs represent the largest Manitoba subsector, food manufacturing. These careers are housed in modern, automated facilities. Manitoba manufacturers are committed to a green environmental footprint, to producing products that improve the lives of Canadians and to giving you the chance for an awesome career with unlimited possibilities!



Are you interested in ensuring Manitobans have access to safe, nutritious foods? How about contributing to a resilient, increasingly sustainable food system that can withstand major global pressures? Look for the ProteinMB logo and visit our website at proteinmb.ca to learn more about how you can get involved!

MANUFACTURING IS CHANGING

Manufacturing is in its 4th revolution, an era referred to as Advanced Manufacturing, Industry 4.0 or Smart Manufacturing. What does this mean? Basically, it means we're using more technologies and automation to improve communications and processes creating diverse, exciting, sustainable products. Manufacturing is becoming high tech as we head into this new frontier. This is an exciting change as it means careers provide more opportunity to work with technology, solve problems and continually grow. You can find more information on manufacturing jobs of the future at the end of this book.

ABOUT CME

Canadian Manufacturers & Exporters (CME) is the voice of manufacturers in Manitoba.

From the first industrial boom in Canada, CME has been advocating for and representing member interests.

In 2023, the Government of Manitoba made CME the home of the facilitation team mobilizing the industry-led implementation of the Manitoba's Protein Advantage, a collaborative strategy to sustainably grow the protein industry and position Manitoba as the global leader in sustainable protein. For nearly 150 years strong, CME has had a track record of working for and with 2,500 leading manufacturers from coast to coast to help their businesses grow. If it was made in Manitoba, chances are CME helped somewhere along the way.

CME is run by manufacturers, for manufacturers. We have our finger on the pulse of the sector. We help companies make products at home and showcase them on the world stage, in part by providing programs and supports that help companies build knowledge and capacity in key areas. These include Lean and productivity; trade and export; energy and environment; leadership development; technological advancement; safety, sustainable protein and more.

CME works wherever you are – with chapters in every province, championed by local companies who are looking for the next generation of manufacturers – just like you!

Like what you hear? Visit our website at CME-MEC.ca for even more helpful information and check out proteinmb.ca to learn more about how you can get involved in Manitoba's Protein Advantage Strategy.











MANUFACTURING IN MANITOBA

We make some pretty cool stuff in Manitoba. Manufacturing drives Manitoba's economy and creates jobs and opportunities for thousands of people in our province.

ASSEMBLER/ LABOURER

TYPE OF JOB

Entry Level

CAREER EARNING POTENTIAL

\$30,600 - \$44,000

DEMAND FORECAST

↑ 336 by 2027

EMPLOYMENT REQUIREMENTS

 High School Diploma or equivalent

SUB-SECTOR DEMAND

Food and Beverage, Furniture and Fixture, Mechanical, Motor Vehicle.



A DAY IN THE LIFE

Meet Emma, a manufacturing labourer whose expertise fuels the factory's heartbeat. Emma's day starts with the team huddle meeting and toolbox talk. This sets her and the team up for the day and provides them with their daily goals and safety information. Her daily tasks will include setting up workstations, working with various hand tools, organizing the flow of raw materials, and equipping machinery. Emma's adaptability shines as she supports various production tasks, from assembly to finishing touches. Amidst the hum of machinery, Emma's hands-on contributions form the backbone of manufacturing, coordinating the seamless integration of components.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

As entry-level contributors, individuals acquire hands-on experience in manufacturing tasks. Progressing they become adept at managing different production stages, exhibiting adaptability. As they hone their skills, they may transition to specialized roles, such as equipment operation, and quality control with experience, they can ascend to supervisory positions, overseeing teams of laborers and coordinating production workflows. Demonstrating leadership and operational acumen, some may even climb to managerial roles, orchestrating production operations and optimizing efficiency.

WHY DOES THIS JOB MATTER?

Assemblers and labourers pull together the necessary pieces to create finished products to satisfy a customer's needs. They are integral to the manufacturing process, echoing the scheduler's commitment to maximizing resource utilization. Their hands-on work keeps production lines moving.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Physical stamina, attention to detail, coordination, adaptability, teamwork, problem-solving, manual dexterity, communication, and reading comprehension.

OTHER JOBS LIKE THIS

Production Worker, Machine Operator, Warehouse Worker, Labourer.



FOUNDRY WORKER

TYPE OF JOB

Entry Level

CAREER EARNING POTENTIAL

\$32,320 - \$59,300

DEMAND FORECAST

↑ 12 by 2027

EMPLOYMENT REQUIREMENTS

 High School Diploma or equivalent

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Meet Carlos, a foundry worker who helps process recycled scrap metal, turning it back into precision parts. His day commences with ensuring that the mold-making machinery is clean, prepped, and ready for production. As a furnace operator, Carlos ensures that the furnace is in safe working condition before the scrap metal is dropped in and that the chemistry of the molten metal is correct by adding different types of metals and alloys while being melted down. Once the chemistry is correct and the molten metal has reached the right temperature the molten metal is poured into the molds and allowed to cool until solid again, before being broken out of the mold and then machined and polished up for the customer.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Newcomers to the foundry learn the fundamentals of foundry safety, the principles of melting metal, and how to process finished castings. With experience, they gain mastery in using the various machines needed to turn scrap metal into finished goods, like cranes, forklifts, grinders, and machining tools. Progressing further, they may specialize in metallurgy or complex casting methods. Rising to senior roles, they take on responsibilities such as quality control and process optimization. For those who demonstrate exceptional craftsmanship and technical knowledge, leadership positions become attainable, where they guide teams, troubleshoot, and innovate casting techniques, and elevate manufacturing quality and efficiency.

WHY DOES THIS JOB MATTER?

Foundry workers make the structurally critical parts of many assemblies and sub-assemblies. From engine blocks to railway crossings, hydraulic cylinders to fire hydrants, train wheels, and more. If a part has to be strong and detailed, it starts in the foundry.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Metallurgy knowledge, attention to detail, problem-solving adaptability, teamwork, technical proficiency, critical thinking, communication, and reading comprehension.

OTHER JOBS LIKE THIS

Labourers, Machine Operators, Welders, Machinists, Millwrights, Electricians.

PRINT OPERATOR

TYPE OF JOB

Production Operations

CAREER EARNING POTENTIAL

\$34,100 - \$81,440

DEMAND FORECAST

1 11 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of a college program in graphic arts technology or a combination of on-the-job training and specialized college, industry or other courses may be required.

SUB-SECTOR DEMAND

Print Industry, Food and Beverage.



A DAY IN THE LIFE

In the manufacturing prepress realm, the operator takes center stage as the leader of visual preparation. The workday involves receiving digital files and meticulously fine-tuning them for print. Armed with technical finesse, the operator ensures colors and layouts align seamlessly with the final product. Among the responsibilities, the operator bridges the gap between digital visions and manufacturing reality, proofing the transition meticulously. The expertise merges artistic insight with manufacturing acumen, a fusion that shapes the transformation of creative concepts into tangible masterpieces.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Beginners in prepress operations familiarize themselves with digital file preparation and print requirements. With time, they become adept at fine-tuning layouts and colors. Progressing they specialize in specific prepress software or industries. Advancing to senior roles, they take on responsibilities like quality control and print optimization. Those who display technical finesse and creative insight may ascend to managerial positions, overseeing prepress operations, guiding innovation, and driving the intersection of design and manufacturing.

WHY DOES THIS JOB MATTER?

Prepress operators reflect the scheduler's mission by ensuring a smooth transition from digital to tangible manufacturing. Their role ensures accurate execution. Just as the scheduler ensures consistent paychecks, prepress operators contribute to successful print preparation, leading to timely deliveries and meeting customer print expectations.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Proficiency in prepress software, attention to detail, coordination, adaptability, teamwork, problem-solving, technical proficiency, critical thinking, and reading comprehension.

OTHER JOBS LIKE THIS

Bindery Operators, Folder Operators, Project Coordinators.





CAREER EARNING POTENTIAL

\$30,600 - \$56,000

DEMAND FORECAST

↑ 135 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of a 4-years apprenticeship program or over 4 years of work experience in the trade is usually required to be eligible for trade certification.

SUB-SECTOR DEMAND

Furnitures and related products.

A DAY IN THE LIFE

Step into manufacturing's artistic sphere with Daniel, a cabinetmaker crafting functional elegance. His day encompasses material selection, precision measurement, and the meticulous assembly of pieces that shape interiors. Daniel's expertise extends to wood grains, finishes, and crafting techniques that elevate cabinetry to both beauty and utility. His craftsmanship interprets architectural blueprints into tangible masterpieces, where aesthetics and functionality converge seamlessly. In the world of manufacturing, Daniel's passion and meticulousness transform spaces into works of art.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Entry-level cabinetmakers learn woodworking techniques and craftsmanship. With experience, they refine their skills in material selection, assembly, and finishing. Progressing they become proficient in interpreting architectural designs and creating bespoke pieces. Rising to senior positions, they may oversee cabinetmaking projects and mentor junior artisans. For those who excel in both artistry and technical expertise, supervisory roles become attainable, where they guide projects, ensure quality and shape manufacturing precision.

WHY DOES THIS JOB MATTER?

Cabinetmakers optimize resources to craft quality pieces. Their craftsmanship ensures efficient woodworking. Just as the scheduler ensures consistent paychecks, cabinetmakers contribute to streamlined production, resulting in timely deliveries and meeting customer expectations for finely crafted products.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Woodworking techniques, attention to detail, coordination, adaptability, problem-solving, craftsmanship, creativity, reading comprehension, and active learning.

OTHER JOBS LIKE THIS

Carpenter, woodworker.



CAREER EARNING POTENTIAL

\$48,080 - \$91,340

DEMAND FORECAST

↑ 57 by 2027

EMPLOYMENT REQUIREMENTS

- · High School Diploma
- A bachelor's degree in industrial 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 practice as a P.Eng.

SUB-SECTOR DEMAND

All sub-sectors.



A DAY IN THE LIFE

Mehul typically starts his days with a multi-departmental meeting that includes people from the production, supply chain, quality control, utilities, and packaging divisions. It is important to make sure that every area of the processing plant is operating according to the quality and safety standards set for their industry, and to discuss any issues that may have arisen the previous day. He takes samples of the plant proteins being produced and tests them against pre-determined specifications, and also has to validate the testing equipment to make sure it is all working properly. Right from receiving the raw materials all the way to creating consumer-ready foods, Mehul continuously checks for quality. And when things are running smoothly, he is always looking for ways to continue to improve the processing plant's efficiency and food safety.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Specialists in these positions are focused on attention to detail, analyzing data, and problem solving. They enjoy the scientific nature of testing and analysis, and the challenge of finding solutions to resolve issues. To do this they need to work closely with every department in their company, and communicate clearly and concisely when issues arise. Facilitating meetings and preparing accurate reports help Mehul and his Managers share information throughout the company.

WHY DOES THIS JOB MATTER?

Food safety is critical, and these positions help to certify that the product being sold is completely safe for consumption. They identify problems and propose solutions to make keep production facilities operating smoothly and safely.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Attention to detail, problem solving, statistical analysis, communication and interpersonal relationships, commitment to safe work practices, report writing, organized record keeping.

OTHER JOBS LIKE THIS

Validation Engineers, Industrial Engineering Technicians, Manufacturing Engineering Technologists, Logistics Analysts, Product Safety Engineers.

INDUSTRIAL BUTCHER

TYPE OF JOB

Skilled Trade

CAREER EARNING POTENTIAL

\$30,600 - \$44,600

DEMAND FORECAST

↑ 496 by 2027

EMPLOYMENT REQUIREMENTS

- · High School Diploma
- For industrial meat cutters, completion of a program in industrial meat cutting or experience as an industrial butcher is required.
- On-the-job training is provided for industrial butchers, meat cutters, and poultry preparers.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Kofi's father was a butcher in a local store, so he decided to follow his father's footsteps and pursue a career as an industrial butcher. Safe work practices, hygienic processing, and knowledge of quality standards and the characteristics of different cuts of meat are important when preparing meat for institutional, commercial, or wholesale uses. Depending on their specific duties in an establishment, butchers can be involved in every step of processing animals, from slaughter through to cleaning and cutting the carcasses into cuts of meat, and packaging the final products. In his job, John usually processes pork, beef, and poultry, though some plants in Manitoba also process sheep, goats, and bison. Reliability is crucial — John knows that the rest of the processing team relies on his contribution to keep production on track.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Beginning as junior industrial butchers, individuals learn meat processing techniques safety protocols, and the importance of hygienic processing practices. Gaining experience, they become adept at various cuts and processing methods. Progressing, they may specialize in specific types of meat or advanced techniques. Advancing to senior roles, they oversee meat processing operations, ensuring quality and efficiency. Those who display expertise in both technique and sanitation may ascend to supervisory positions, where they guide processing strategies and contribute to manufacturing excellence in protein production.

WHY DOES THIS JOB MATTER?

Industrial butchers maximize resource utilization by skillfully processing meat products to maximize yield and minimize waste. Their expertise ensure meat products are processed safely and meet the quality standards required by the industry and consumers.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Meat processing techniques, knife skills, knowledge of sanitary processing practices, attention to detail, hand-eye coordination, physical stamina, teamwork, adaptability, problem-solving, reading comprehension, and active learning.

OTHER JOBS LIKE THIS

Industrial Meat Cutter, Poultry Preparers, Retail Butchers, Meat Inspector, Meat Grader

INDUSTRIAL PAINTER

TYPE OF JOB

Skilled Trade

CAREER EARNING POTENTIAL

\$34,000 - \$62,000

DEMAND FORECAST

↑ 113 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Some industrial painters, such as aviation painters, may require specialized training and certification or college courses.

SUB-SECTOR DEMAND

Motor Vehicle, Agriculture, Equipment.



A DAY IN THE LIFE

Jovana has always had a passion for cars and art was her favorite subject throughout school. Today, she works as a production painter for a manufacturer of truck body parts. Before starting her day, she puts on her personal protective equipment and heads to the shop floor to prepare surfaces to bind to the paint she will apply. Once the surface is prepped, she operates the painting equipment, carefully tests the paint formula to get the colour just right, and uses brushes and spray equipment to apply paint onto the truck. Jovana's attention to detail helps her excel in this job every day. She's also responsible for polishing metallic surfaces in the final step of the painting process, adding a professional finish that impresses the final customer, every time.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Beginners in industrial painting start by learning how to prepare surfaces and apply paint. As they gain experience, they refine their skills in applying coatings and finishes. Progressing they may specialize in specific materials or applications. Advancing to lead positions, they oversee painting operations, ensuring quality and consistency. Those who exhibit mastery in both technique and safety protocols may ascend to managerial roles, guiding painting strategies and contributing to efficient manufacturing processes.

WHY DOES THIS JOB MATTER?

Coating metal and wood products serve a critical dual purpose: shielding them from environmental damage while enhancing their aesthetic appeal. Precision in selecting and applying the appropriate coatings ensures protection against the elements, safeguarding both the equipment or product and customers' investments.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Painting techniques, color perception, attention to detail, hand-eye coordination, creativity, adaptability, teamwork, problem-solving, reading comprehension, and active learning.

OTHER JOBS LIKE THIS

Industrial Coating Sprayer, House Painter, Insulation Sprayer.



INDUSTRIAL ELECTRICIAN

TYPE OF JOB

Skilled Trade

CAREER EARNING POTENTIAL

\$70,000 - \$88,340

DEMAND FORECAST

↑ 35 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- 4-5 years of Industrial Electrician apprenticeship program.
- Trade certification for industrial electricians is compulsory.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Madison loves solving problems and working with her hands. Everyday the position brings something new. Today, Madison is working on a building expansion: her company has invested millions in renovating the production floor, expanding the shop, and bringing in new equipment from Germany. Madison's job this month is to ensure the project's electrical parts run smoothly. As she has for the past few weeks, she starts her day reading through drawings, schematics, blueprints, and electrical code requirements to lay out new electrical lines in the new building. She double-checks yesterday's installation of switch boxes, feeders, and other electrical components and tests hookups for continuity, current, voltage, and resistance. She works with her team to troubleshoot and repair defects. She runs fiberoptic cable through the plant and completes her paperwork. After the documentation, Madison finishes up by organizing the inventory of electrical supplies. Tomorrow she may spend her day troubleshooting and repairing a piece of production equipment, working in a high-voltage substation, or even analyzing and adjusting the programming of a piece of equipment.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Entry-level industrial electricians familiarize themselves with electrical systems and maintenance tasks. As they gain experience, they become skilled in troubleshooting and equipment repair. Progressing they may specialize in specific industries or complex electrical systems. Advancing to lead roles, they oversee electrical maintenance, ensuring operational efficiency. Those who display technical finesse and safety awareness may ascend to managerial positions, where they guide electrical strategies and contribute to manufacturing reliability.

WHY DOES THIS JOB MATTER?

The world is powered by electricity and the industrial electrician is the one who maintains that system. A manufacturing facility would come to a standstill without this support.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Troubleshooting, repairing, critical thinking, active listening, judgment, decision-making, installation, and communications.

OTHER JOBS LIKE THIS

CNC Programmer, Electrical Engineer, Mechanical Engineer, Millwright.

MACHINIST

TYPE OF JOB

Skilled Trade

CAREER EARNING POTENTIAL

\$40,000 - \$73,260

DEMAND FORECAST

↑ 106 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of 4 years of apprenticeship program or a combination of over 4 years of work experience in the trade.
- · Red Seal certification.
- Trade certification for machinists (CNC) is available.

SUB-SECTOR DEMAND

Motor Vehicle, Agriculture, Equipment.





A DAY IN THE LIFE

As a machinist at a local company that makes vehicles for emergency responders, Rhonda starts her day programming machines to meet precision product specifications. To do this, she needs to read and interpret engineering drawings, blueprints, charts, and tables to determine the machining operation to be performed and plan the best sequence of operations. Mid-morning her manager asks for her to help troubleshoot software issues on a multi-million-dollar piece of equipment. After solving that issue, Rhonda participates in a weekly production meeting with other team leads to make sure the targets are on track to meet monthly goals. After lunch, she jumps back into her morning task, machining the parts for a new brake line that needs to perform in extreme weather and intense conditions. There's no room for error, but Rhonda lays out work pieces, sets up, operates, and maintains both high and low-tech equipment with precision, every time.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Starting as apprentice machinists, individuals learn machining fundamentals and equipment operation. As they gain proficiency, they specialize in specific machining methods or tools. Progressing they become skilled operators, contributing to complex machining projects. Advancing to master machinists, they may mentor junior machinists and lead machining teams. Those who excel in precision and technical knowledge may ascend to supervisory roles, overseeing machining operations and driving process enhancements.

WHY DOES THIS JOB MATTER?

A good machinist is worth their weight in gold: manufacturing runs on machining. Employees rely on working equipment to complete their schedule of orders. Any shutdown of equipment means lost money to the company and the employees.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Mechanical aptitude, precision, attention to detail, mathematical skills, problemsolving, adaptability, teamwork, technical proficiency, critical thinking, and reading comprehension.

OTHER JOBS LIKE THIS

Tool and Die Maker, CNC Operator.

MILLWRIGHT

TYPE OF JOB

Skilled Trade

CAREER EARNING POTENTIAL

\$43,000 - \$92,000

DEMAND FORECAST

↑ 188 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent or a vocational program is usually required.
- Completion of a 3-4 years apprenticeship program or a combination of 5 years of work experience.

SUB-SECTOR DEMAND

All sub-sectors.



Tan loves to problem-solve and work with his hands. As a kid, he was always taking apart toys and electronics to see how they worked. Today, Tan's work as a millwright lets him do more of the same. This morning, he kicked off his day welding machinery pieces according to blueprints and design he was given by his supervisor, testing to make sure the finished product worked as designed. His second task of the day was to program a specialized machine into the assembly line with the help of a co-worker — an engineer. When heavy machinery breaks down, Tan is the first person the assembly line calls. Today, he inspects and repairs a broken machine press, and examines three other pieces of similar equipment to correct small problems before they become bigger problems. Today, like most days, Tan worked with tools such as lathes and grinders during the overhaul, maintenance, and set-up of machinery.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Starting as apprentice millwrights, individuals learn mechanical maintenance and repair techniques. With experience, they become proficient in troubleshooting equipment upkeep and preventive maintenance. Progressing they may specialize in specific machinery or industries. Rising to senior positions, they take on responsibilities like equipment installation and fabricating new equipment and tools. Displaying technical expertise and problem-solving skills, they may rise to managerial roles, where they guide maintenance strategies and ensure manufacturing reliability.

WHY DOES THIS JOB MATTER?

Millwrights ensure that the equipment and machinery in a modern-day manufacturing plant are installed and run safely and reliably. This ensures that employees have working equipment to get their products made and allows companies to invest in new equipment which allows them to remain competitive year over year.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Installation (of equipment), equipment maintenance, operation monitoring, critical thinking, troubleshooting, time management, continuous learning, communications

OTHER JOBS LIKE THIS

Welder, Ironworker, Electrician, Industrial Mechanic, Machinist.



WELDER

TYPE OF JOB

Skilled Trade

CAREER EARNING POTENTIAL

\$37,880 - \$69,300

DEMAND FORECAST

↑ 551 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of a 3-4 years apprenticeship program and completion of over 3 years of work experience.
- College Certificate is required.

SUB-SECTOR DEMAND

Motor Vehicle, Agriculture, Equipment.





A DAY IN THE LIFE

Arjun has always been passionate about building things. His job as a welder is to join metal parts together, which isn't as simple as it sounds. In fact, only about a fifth of Arjun's day is spent welding: much of his time is spent interpreting blueprints, drawings, and measurements and preparing for the project at hand. At the beginning of his shift, Arjun meets with his manager to quickly discuss the current needs of the operation. Before he starts on a project, he gears up with personal protective equipment, critical for this role since the tools of the trade include manual or semi-automatic welding equipment using different techniques like arc welding, gas metal arc welding, oxy-acetylene welding resistance welding, and submerged arc welding. Now safely wearing his PPE, Arjun hits the shop floor where his first task is to study a drawing to understand the full picture of the structure he is about to work on. Then he sets up his welder, adjusts the settings to what is needed for this job, and starts to join metal pieces together. Throughout the day, Arjun will work with different metal shaping machines like brakes, shears, and other metal forming. Quality and attention to detail are critical jobs in welding. Arjun inspects and monitors progress to ensure that high and accurate standards are met at every step of the way.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Starting as apprentice welders, individuals learn various welding techniques and safety protocols. As they gain proficiency, they specialize in specific methods or industries. Progressing, they become skilled fabricators, contributing to intricate projects. Advancing to master welders, they may mentor newcomers and lead welding teams. For those who excel in craftsmanship and technical mastery, supervisory or inspection, positions become attainable, where they oversee welding operations, ensure quality, and guide process enhancements.

WHY DOES THIS JOB MATTER?

The world relies on welding as an essential part of our everyday lives. From manufacturing vehicles to creating strong buildings, bridges, pipelines and so much more, welding is one of the essential skills for all fabrication in any industry.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Critical thinking operation and control (equipment and systems), monitoring (yourself, others, organizations to make improvements), reading comprehension (following directions), active listening, communications, mathematics, time management, using measuring tools, math.

OTHER JOBS LIKE THIS

Ironworker, Pipe fitter, Sheet Metal Worker, Robotic Technicians.

TRANSPORT TRUCK DRIVER

TYPE OF JOB

Skilled Trade

CAREER EARNING **POTENTIAL**

\$31,000 - \$68,000

DEMAND FORECAST

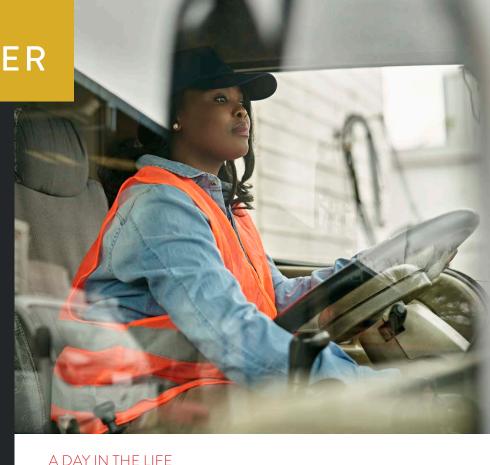
↑ 3485 by 2027

EMPLOYMENT REQUIREMENTS

- · Completion of secondary school is usually required.
- · Class 3 or D driver's license for straight-body trucks
- · Class 1 or A license for long combination vehicle

SUB-SECTOR DEMAND

All sub-sectors.



Jane starts her shift at 6 am, checking her daily routes and attending a quick team meeting. She loads her assigned truck from the warehouse and departs at 7 am. Her first stop is a manufacturer, unloading parts, and then she heads to a distributor in a nearby community. Returning by 11:30 am, she takes lunch and gets a new assignment from the transportation manager. By 2:45 pm, she's back, reporting any issues. Jane concludes her day at 3 pm.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

In a manufacturing company, truck drivers typically start in entry-level positions. As they gain experience, they adapt to transporting specialized cargo and may pursue additional certifications to qualify for higher-paying assignments. With time, experienced drivers may advance to supervisory roles, overseeing transportation operations and coordinating with other departments.

WHY DOES THIS JOB MATTER?

In supply chains, truck drivers hold a crucial role as they frequently serve as the initial and concluding connection for freight transport. Moreover, these professionals are highly sought after, and the absence of their contribution can lead to supply chain disruptions.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Discipline, strong communication skills, trustworthiness, navigation skills, basic mechanical knowledge, strong driving skills, manual dexterity, and an ability to organize and adhere to schedules.

OTHER JOBS LIKE THIS

Delivery Driver, Bus Driver, Tow Truck Driver.



ENGINEER

TYPE OF JOB

Technical

CAREER EARNING POTENTIAL

\$82,800 - \$182,700

DEMAND FORECAST

↑ 68 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of a 2-3 years
 College Program in Electrical
 or Electronics Engineering
 Technology, Industrial &
 Manufacturing Engineer Degree.

SUB-SECTOR DEMAND

All sub-sectors.



A DAY IN THE LIFE

Cory loves complex problems — he's always been drawn to logic and puzzles. He arrives at the office anywhere between 8:00 and 8:30 most days and starts the day by meeting with his team walking the shop floor. Today, he's looking at two different paint processes to try to figure out how to combine them into one. He collects data from each process, including measures of fluid mechanics, chemical reactions, and material safety. The project takes the patience of a data scientist, math and science know-how, and a little bit of trial and error to test different systems and measure results. Then he goes back to his office to put all the information together and run some calculations. He is meeting with the rest of the team to discuss potential solutions at the end of the day. Once they have a plan, Cory will identify suppliers and other companies, draft specifications, and bring in the right supporters to help make the plan a reality.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Beginning as junior engineers, individuals grasp the fundamentals of manufacturing processes and design principles. With experience, they specialize in specific engineering disciplines, such as mechanical or electrical engineering. Progressing they become project leaders, coordinating interdisciplinary teams, and driving innovation Rising to senior roles, they take on responsibilities like process optimization and strategic planning. Displaying technical expertise and leadership skills, they may ascend to managerial positions, where they guide engineering strategies and shape manufacturing innovation.

WHY DOES THIS JOB MATTER?

Engineers are problem solvers who apply their education in science and math to make things better in their areas of expertise. Engineers can research, optimize, and improve the world around them.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Aptitude for math, science, critical thinking, active listening, verbal communication, reading comprehension, active learning (the ability to incorporate new findings into your work), and communication.

OTHER JOBS LIKE THIS

Civil Engineers, Aerospace Engineers, Biomedical Engineers, Environmental Engineers.



ENGINEER TECHNOLOGIST

TYPE OF JOB

Technical

CAREER EARNING POTENTIAL

\$44,000 - \$105,120

DEMAND FORECAST

↑ 105 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of a 2-3 years
 College Program in Electrical or Electronics Engineering Technology, Industrial
 & Manufacturing
 Engineer Degree.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Engineering technologists bridge theoretical concepts with manufacturing brilliance. The day unfolds in translating intricate engineering principles into tangible solutions. Whether in electronics, mechatronics, or other disciplines, the journey begins with dissecting project requirements. They design, test, and fine-tune prototypes, ensuring their alignment with rigorous manufacturing standards. They collaborate with engineers and technicians, weaving innovation into the very fabric of manufacturing's evolving landscape.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Starting as junior engineering technologists, individuals gain exposure to various engineering disciplines and manufacturing processes. As they accumulate experience, they specialize in specific areas such as electronics or mechatronics. Progressing they become adept at translating engineering principles into practical solutions. Rising to senior roles, they may lead cross-disciplinary teams, optimizing manufacturing designs and processes. Displaying innovation and adaptability, they may ascend to managerial positions, where they guide technological strategies, drive automation, and shape the future of manufacturing.

WHY DOES THIS JOB MATTER?

Engineering technologists align with the scheduler's goal of resource optimization by designing efficient systems. Their expertise ensures technological prowess. Just as the scheduler ensures consistent paychecks, engineering technologists contribute to innovative solutions, enabling advanced manufacturing processes and meeting customer product expectations.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Aptitude for math, science, critical thinking, active listening, verbal communication, reading comprehension, active learning (the ability to incorporate new findings into your work), and communication.

OTHER JOBS LIKE THIS

Engineer, Millwright, Engineering Technicians.

POWER ENGINEER

TYPE OF JOB

Technical

CAREER EARNING POTENTIAL

\$52,000 - \$100,960

DEMAND FORECAST

↑ 206 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- A college training program in power engineering and several years of work experience is required.
 An exam is mandatory to move from one class to the other.
- A provincial or territorial power engineering certificate is required according to class.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Within the realm of industrial energy, Sarah orchestrates seamless operations. Her day begins with a thorough assessment of equipment such as boilers, and control systems, ensuring their readiness for a productive day ahead. Armed with expertise, Sarah monitors data streams, fine-tuning settings for optimal performance. She anticipates challenges and responds swiftly, averting potential disruptions. Her role marries precision with adaptability, bridging the gap between machinery and efficiency, all while ensuring a steady flow of power that keeps the wheels of manufacturing turning.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

The journey of a Power Engineer starts with foundational education and evolves through hands-on experience, specialization, and leadership. As Power Engineers progress through various roles, they make significant contributions to energy system optimization, operational efficiency, and the overall success of manufacturing operations.

WHY DOES THIS JOB MATTER?

The role of a Power Engineer holds significant importance in various industries and manufacturing settings due to its direct impact on operational efficiency, safety, and sustainability. Power Engineers play a critical role in ensuring the smooth functioning of energy systems and machinery, which are the lifeblood of manufacturing processes.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Technical skills and knowledge of contemporary technology, project management skills, multitasking skills, problem-solving skills, communication skills, versatility organizational and time-management skills, leadership skills

OTHER JOBS LIKE THIS

Millwright, Engineering Technologies.

COMPUTER PROGRAMMER



Technical

CAREER EARNING POTENTIAL

\$50,000 - \$115,380

DEMAND FORECAST

↑ 87 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- College Diploma in Computer Science.
- Bachelor's degree in Applied Computer Science.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

What Tyler likes best about his day is the chance to put on his headphones, open his laptop, and start programming. Today is no different — he is creating a new system that will let the company's inventory control system "talk" to a vendor in Germany's database. He'll spend the rest of the day working on his computer. Here and there, he stops to test if the system is working the way it is supposed to. Most of Tyler's day is spent programming, but he does need to take a conference call with the vendor in Berlin and the company's cybersecurity consultant in New York. Tomorrow will be a big day for him as he is presenting the new system to his manager and the company's CEO.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Beginning as a programmer, individuals acquire foundational coding knowledge and skills, gaining familiarity with diverse programming languages and development methodologies. As they progress, they specialize in specific programming languages or technologies crucial to manufacturing applications, contributing to the development of customized software solutions. Advancing to senior roles, they lead software development teams, oversee project execution, and drive innovation to optimize manufacturing processes.

WHY DOES THIS JOB MATTER?

Every aspect of a modern manufacturing operation relies on computer systems and programs to run its business. From communications to scheduling to bonus calculations to efficiencies and quality and so much more, computer programmers ensure a business runs 24/7.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Digital literacy, analytical thinking, problem-solving, evaluation, attention to detail, independence, and innovativeness.

OTHER JOBS LIKE THIS

Software Developer, Computer Systems Analyst, Web Developer, Computer Support Specialist, Quality Assurance Tester.

MANAGERS

TYPE OF JOB

Business Operations

CAREER EARNING POTENTIAL

\$57,700 - \$144,240

DEMAND FORECAST

↑ 379 by 2027

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- Completion of a college or university program in engineering or business administration is usually required.
- 5-10 years of supervisory experience in manufacturing are required.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

In the realm of manufacturing Geoff stands as the conductor of operational brilliance. His day marries strategic orchestration with hands-on leadership. He assesses production goals, allocates resources, and steers teams toward alignment. Collaborating with department heads, Geoff molds a cohesive unit driven by shared objectives. Data analysis, decision-making, and fostering workforce growth occupy his dynamic routine. James's art lies in transforming challenges into manufacturing triumphs, sculpting a legacy of seamless operations and team accomplishments.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Beginning as production coordinators, individuals grasp the fundamentals of manufacturing operations. As they accumulate experience, they evolve into managers, responsible for overseeing teams and ensuring seamless production. Demonstrating adeptness in resource allocation and team coordination, they advance to senior management positions. Here, they shape manufacturing strategies, lead cross-functional teams, and drive process innovation. Ultimately, with a track record of successful leadership, they can ascend to executive roles, guiding manufacturing enterprises toward unprecedented heights of efficiency and excellence.

WHY DOES THIS JOB MATTER?

Managers oversee operations for efficiency. They align resources and lead teams to success. Just as the scheduler's focus ensures consistent paychecks, managers' efforts drive productive operations, contributing to timely deliveries and guaranteeing customer expectations are met.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Leadership, communication, problem-solving analytical skills, adaptability, decision-making, teamwork, negotiation, critical thinking, and reading comprehension.

OTHER JOBS LIKE THIS

Team leaders, Supervisors, Project managers, Directors, Executives.



TYPE OF JOB

Business Operations

CAREER EARNING POTENTIAL

\$40,000 - \$91,000

DEMAND FORECAST

↑ 20 by 2026

EMPLOYMENT REQUIREMENTS

- High School Diploma
- University Degree in Food Science, Food Technology, or a Related Field

SUB-SECTOR DEMAND

Food Research Specialist, Senior Researcher, Laboratory Manager.





A DAY IN THE LIFE

Gary finds his days as a Food Research Specialist busy and rewarding. He enjoys applying his schooling and his natural curiosity for food to help improve the quality of the food products his company makes. Working as part of a team, Gary focuses on specific tasks like analyzing the nutritional content of the food products, determining the products food safety characteristics, assessing methods to improve the taste and texture of the products, enhancing the shelf life, and exploring the addition of new ingredients to the product. Sometimes the Food Research Specialists experiment's lead to the company adopting more cost-effective ingredients and processing techniques which help the company meet their business goals including profitability, efficiency, sustainability, etc.. When assessing the characteristics of a product or processing method the research and development team conducts multiple experiments, tracks the results, and analyzes the outcomes. From here they can meet with the Senior Researcher or Lab Manager to make recommendations that will be passed on to the company's managers for consideration. As the company adds new food products to its line, there are always new characteristics of the product or process for Gary and his team to investigate and test.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

R&D careers in manufacturing evolve from entry-level roles focusing on hands-on experimentation, to specialized roles designing and refining prototypes. Career progression can lead to management positions overseeing projects, innovation, and teams, senior leadership roles that shape strategies, executive roles that guide innovation efforts and partnerships that impact the company's competitiveness in the industry.

WHY DOES THIS JOB MATTER?

In a competitive food industry the quality and safety of new and existing food products must be continually assessed for companies to continually improve their products' taste, texture, nutritional value, and ensure product safety while identifying cost-effective ingredients and processing techniques that allows the company to meet their business goals.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Technical knowledge of food products and ingredients, processing methods, food regulations, attention to detail, problem-solving, statistical analysis, effective communication, report writing.

OTHER JOBS LIKE THIS

Scientist, Product Development, Quality Control and safety, Food Inspector

COMMODITY SALES

TYPE OF JOB

Business Operations

CAREER EARNING POTENTIAL

\$38,460 - \$105,760

DEMAND FORECAST

↑ 37 by 2026

EMPLOYMENT REQUIREMENTS

- High School Diploma or equivalent.
- BA, BS, or B.Com Degree required in Accounting/ Finance/Economics
- Financial Designation may be required (CFA, CFP, CIM or others)
- Completion of Licensing Courses Such as The Canadian Securities Course

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Gail has always considered herself to be a 'people person', so a career in sales felt like a good fit to her. In Commodity Sales, not only does she have opportunities to interact with other sellers and buyers, but there is the additional challenge of understanding markets and even publicly traded agricultural stocks like wheat, livestock, sugar, soybeans, corn, and also produce fertilizer, packaged foods, and agricultural machinery and equipment used in industrial farming. Like Gail, most sales people specialize mostly in either buying or selling but it's not uncommon for someone to do a bit of both. And sometimes they are dealing with raw ingredients, like peas; and sometimes they're more involved with finished products like burger patties made from pea protein. When Gail is selling grains, crops have a specific harvest season, and depending on each year's yield, she needs to understand how the prices will vary based on the supply available and demand from her buyers. Nowadays most of her transactions can be completed online or over the phone so much of her day is spent at her office, but travelling occasionally to maintain personal relationships is important.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Commodity Sales People usually work on a combination of a base salary plus a commission, so a lot of time is spent understanding market trends, tracking prices, and building relationships with loyal buyers to establish trust. This requires them to be motivated to do whatever research is necessary to stay on top of industry changes. Though they act fairly independently, sometimes they are part of a sales team, and they will always have to report their sales to a supervisor on a regular basis to measure their performance.

WHY DOES THIS JOB MATTER?

All businesses need to earn enough revenues to become profitable, and good sales people play an integral role in helping growers and producers get their goods to market at the best fair price, or purchase resources at prices that allow for profitability.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Strong communication skills, ability to establish and maintain professional relationships, sales & marketing, business finance, accounting.

OTHER JOBS LIKE THIS

Personal Financial Advisors, Accountant, Stock Broker, Commodity Trader, Market Research Analysts and Marketing Specialists Sales, Agricultural Business Advisor.

CAREER JOURNEY

Intern, Analyst, Associate, Vice President, Executive Director, Managing Director.

FINANCIAL ANALYST

TYPE OF JOB

Business Operations

CAREER EARNING POTENTIAL

\$49,240 - \$123,080

DEMAND FORECAST

↑ 304 by 2027

EMPLOYMENT REQUIREMENTS

- · High School Diploma
- A bachelor's degree in commerce, business administration, accounting, finance, or economics and on-thejob training and industry courses and programs are usually required.
- MBA (concentration in finance) or in finance may be required.
- CFA designation is usually required.
- Other designations (CPA, CTP) may be required by some employers.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Just like a Quality Control Specialist, a Financial Analyst investigates and tries to solve problems, except for them it has to do with a company's operating costs and profitability. Paula needs to run production reports, yield reports, labour reports, and revenue reports to make sure her company is earning more than it is spending. If she notices that something is inconsistent or starts to see certain trends in the reports, she'll meet with different departments to try to figure out what's going on. Then she can meet with the Chief Executive Officer and Chief Financial Officer to talk about how they can fix things. Communication is a surprisingly important skill for a Financial Analyst. They have to be able to ask the right questions and share information in a way that everyone understands, not just other financial specialists. Building trust and positive relationships with her company's teams helps them feel comfortable talking about challenges they may be facing, and including them in finding solutions.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Financial Analysts don't just look at reports; they also need to recognize what causes changes in a company's costs and revenues. They rely on people in other departments to help them understand each production process and the factors that affect profitability. Communication in accounting and analyst positions is of the utmost importance, as they need to be able to share their finding with company executives to make critical operational decisions.

WHY DOES THIS JOB MATTER?

All companies strive to create profits, and the only way they can stay in business is if their revenues are greater than their costs of production. Financial Analysts keep company owners aware of excessive costs or declining revenues so that critical changes can be made to get back on track.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Analytical skills, strong communication, critical thinking, short term and long term planning, organizational skills.

OTHER JOBS LIKE THIS

Auditor, Accountant, Budget Analyst, Risk Management Specialist, Market Research Analyst, Compensation, Benefits, and Job Analysis Specialist, Personal Financial Advisor.

CAREER JOURNEY

Accountant, Investor, Portfolio Manager, Fund Manager, Controller/Comptroller, Chief Financial Officer.



TYPE OF JOB

Business Operations

CAREER EARNING POTENTIAL

\$45,000 - \$80,000

DEMAND FORECAST

↑ 296 by 2027

EMPLOYMENT REQUIREMENTS

- · High school diploma or equivalent
- Bachelor's degree or college diploma in business administration, commerce, or economics usually required.

SUB-SECTOR DEMAND

All sub-sectors.



A DAY IN THE LIFE

Jimmy's factory day starts with assessing daily and weekly needs, focusing on equipment, supplies, and parts. He coordinates with vendors, ensuring timely supply arrivals and addressing pressing requirements. He requests proposals, negotiates terms, and manages ongoing orders. Throughout the day, he monitors factory floor needs and orders progress, while also preparing reports on incoming orders, costs, and future needs. By day's end, he emails a brief to the next agent for a smooth shift transition and compiles a follow-up list for his return.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

As entry-level contributors, individuals in manufacturing typically start as Materials Coordinators, managing inventory and coordinating shipments. Advancing in their career, they may become Purchasing Buyers, negotiating contracts, and managing supplier relationships. With further experience, they can transition into Logistic Specialists, optimizing transportation and distribution processes. Climbing the career ladder, they may ascend to roles like Purchasing Manager or Supply Chain Manager, overseeing procurement strategies and supply chain operations.

WHY DOES THIS JOB MATTER?

Procurement agents play a pivotal role in various industries, including logistics, by managing supply chains. They secure goods and services, maintaining smooth operations. Their responsibilities encompass inventory, supplier negotiations, and regulatory compliance, preventing disruptions.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Strong communication and interpersonal abilities, analytical and problem-solving skills, the ability to negotiate, while adhering to schedules, and good organizational and time management skills with attention to detail are required, as is deep knowledge of procurement laws, policies, and procedures.



CAREER EARNING POTENTIAL

\$35,000 - \$67,200

DEMAND FORECAST

↑ 293 by 2027

EMPLOYMENT REQUIREMENTS

- · High school diploma or equivalent
- Completion of a post-secondary education program of less than two years in Business or Supply Chain Management.

SUB-SECTOR DEMAND

All sub-sectors.

A DAY IN THE LIFE

Francine, a supply chain coordinator in Winnipeg, starts her day by meeting with department heads to align with operational needs. She coordinates production schedules, communicates with warehouse and production teams, and consults inventory clerks for logistics insights. She also manages customs documents and overseas shipments. At mid-day, she compiles a report on production progress, outgoing shipments, and potential supply reorder needs to ensure smooth operations.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Starting as Receiving or Shipping Clerks, individuals in manufacturing gradually progress to roles like Dispatchers, and handling transportation logistics. As they gain experience, they move into positions such as Operational Specialists, overseeing production logistics and transportation coordination. Climbing further, they assume leadership roles like Warehouse Supervisors or Dispatcher Supervisors, managing teams and optimizing operational efficiency within manufacturing organizations. Throughout their career journey, they develop expertise in logistics management, eventually advancing to higher-level management positions to drive strategic initiatives and improve overall productivity.

WHY DOES THIS JOB MATTER?

Production and transportation logistics coordinators ensure timely production and delivery of necessary items. They oversee manufacturing completion and shipping to meet customer orders.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Communication and negotiation skills, a focus on customer service, organization expertise, and excellent problem-solving skills.

SAFETY PROFESSIONAL

TYPE OF JOB

Business Operations

CAREER EARNING POTENTIAL

\$40,000 - \$98,000

DEMAND FORECAST

↑ 78 by 2027

EMPLOYMENT REQUIREMENTS

- · High School Diploma or equivalent.
- Occupational Health & Safety Certificate is required.
- A bachelor's degree in a discipline such as food science, environmental studies, chemistry, or health and safety is usually required.
- Public health inspectors employed outside Quebec require certification with the Canadian Institute of Public Health Inspectors.

SUB-SECTOR DEMAND

All sub-sectors.





A DAY IN THE LIFE

Lauren is a safety manager whose job is to ensure that safety and health are a part of everyday life at her company. Each morning, she meets with different department leaders and managers to talk through opportunities to improve safety and throughout the day she advises on safety concerns with the employees and management. The company is rolling out a safety orientation for brand new hires and this morning, Lauren is developing the content. Later in the day, she'll meet with a group of team leads to talk through a near-miss incident from the week before. No one was hurt but Lauren and the team understand that this is an opportunity to correct a hazard before someone gets hurt and will work to improve the safety policies and communication to control the risks and keep everyone healthy and safe.

WHAT DOES A CAREER JOURNEY LOOK LIKE?

Entry-level safety professionals familiarize themselves with workplace safety regulations and protocols. With experience, they specialize in specific industries or hazardous environments, conducting risk assessments and implementing safety measures. Progressing they become safety leaders, developing comprehensive safety programs and training initiatives. Rising to senior roles, they may take on managerial positions, overseeing safety compliance and driving a culture of workplace well-being.

WHY DOES THIS JOB MATTER?

Safety professionals add a measured and strategic approach as part of the leadership team to ensure that all employees return home to their families as good as or better than when they started their workday.

WHAT SKILLS AND COMPETENCIES ARE NEEDED?

Relationship building and communication skills, leadership, strategic and critical thinking, process-oriented, occupational health and safety fundamentals, knowledge of legislation, codes, standards, and leading practices, risk assessment, statistical analysis, and research skills.

OTHER JOBS LIKE THIS

Safety Coordinator, Safety Manager, Safety Specialist, Safety Trainer, Safety Advisor, Industrial Hygienist.



In the next

3 YEARS

the Manitoba manufacturing sector is looking to hire

7,465 employees





THE FUTURE OF WORK

What does the future look like for manufacturing?

The field of manufacturing continues to evolve with each passing year.

Can you imagine a world without iPhones or the internet? Many of today's most in-demand jobs didn't exist 30 years ago. When your parents were your age, not only did careers like data scientist, blogger, and social media specialist not exist, it would have been nearly impossible to imagine what a day in the life of those jobs would look like, or what skills or training might be required.

In manufacturing, new processes, tools and equipment are allowing companies to produce products faster, more safely and with better quality in a hyper-connected, global environment. Cyber security, artificial intelligence, 3D printing and more – technology is changing faster and faster every day. This is where advanced manufacturing comes into play.

"Advanced Manufacturing" is the term manufacturers are using to describe the future in our industry. It is the use of innovative technologies and methods to get better at what we do.

While we don't know what tomorrow's jobs will look like, we do know that certain skills will be required to succeed. Technical skills are important, but maybe more so are soft skills – like creativity, problem solving, teamwork and curiosity.

Tomorrow's manufacturers are here today. Manufacturing is high tech. It's sustainable. It's safe, cutting edge, higher skilled and well paying.

CME provides many supports in the area of advanced manufacturing, but you can also visit coalitionmb.ca for great information on the world of smart manufacturing, industry 4.0 and a peek at exciting technologies and changes on the horizon.

Manufacturing is a driving economic force in Canada, and the future is bright!



HOW CME CAN HELP

CME can connect you with the world of work! With initiatives and programs that let you explore your future career options, we encourage you to learn more about the exciting things manufacturers are making. Connect with us today to learn more about:

YOUTH IN MANUFACTURING

Exposes students to manufacturing processes from design to building and assembling a product, and ultimately the marketing and sales process.

LEAN 101

This one day, hands-on, "learning by doing"- style workshop discusses Lean concepts like customer focus, information and material flow, problem solving and waste elimination. Many manufacturers subscribe to Lean methodology, and this is a great chance to add something to your resume that will catch the eye of a future recruiter.

CLASSROOM PRESENTATIONS

This dynamic classroom presentation explores the motivations for considering a career in manufacturing, unveils diverse opportunities and paths for advancement, and incorporates interactive activities to help students discover the compelling "why" behind entering the industry.

ACTIVITY BOXES

CME's activity boxes are meticulously crafted to seamlessly integrate with STEM curriculum, providing students with hands-on experiences in standard operating procedures, design thinking, systems analysis, and practical application of skills, fostering a dynamic learning environment that nurtures critical thinking.

CAREER FAIRS

At career fairs, CME passionately promotes the manufacturing industry, facilitating connections between education and industry, and actively shares its job board to empower students with direct access to diverse and exciting career opportunities.



CONNECT WITH US TODAY!

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