Environmental Relevance of Selected Occupations

The occupations included in this analysis were categorized using Canada's **National Occupational Classification (NOC)** system. The NOC is the national framework used to classify and organize occupations in the Canadian labour market based on the type of work performed, as well as the skills, education, and responsibilities required. Each occupation is assigned a unique five-digit NOC code, providing a standardized approach for identifying, comparing, and analyzing occupations across industries and regions.

This section outlines how selected NOCs contribute to environmental sustainability across sectors. These roles, ranging from finance and engineering to operations and frontline work, shape environmental outcomes through decisions related to resource use, emissions, efficiency and long-term planning. The descriptions below provide context on these contributions and explain their inclusion in the environmental labour market analysis.

NOC 11101 – Financial and Investment Analysts

Financial and investment analysts can support environmental and sustainability goals by evaluating how capital is allocated, how risks are assessed and how long-term value is measured. Their work can influence investment in low-carbon technologies, climate-resilient assets and business strategies that better account for environmental performance.

NOC 11201 – Professional Occupations in Business Management Consulting

Professionals in business management consulting can help organizations advance sustainability by redesigning operations, improving systems and aligning governance with environmental objectives. Because they advise on structure, methods, performance and compliance, they can translate sustainability goals into practical organizational change.

NOC 20010 – Engineering Managers

Engineering managers play a strategic role in advancing environmental and sustainability goals by guiding technical teams, setting performance standards and prioritizing investments. Because they oversee engineering programs, budgets and staff, they influence how low-carbon, efficient and compliant solutions are designed and implemented.

NOC 20012 – Computer and Information Systems Managers

Computer and information systems managers can make a major contribution to sustainability by shaping how digital infrastructure is designed, operated and renewed. Their decisions affect data-centre energy use, hardware lifecycles, remote work capability, system efficiency and the use of digital tools that help other departments reduce emissions and waste.

NOC 21300 – Civil Engineers

Civil engineers are central to sustainability because they design and manage the infrastructure systems that shape energy use, water management, mobility, land use and resilience. Their work can directly reduce emissions, conserve resources, protect ecosystems and support adaptation to climate and environmental risks.

NOC 21301 – Mechanical Engineers

Mechanical engineers have a strong influence on sustainability because they design, evaluate and improve the machinery, thermal systems and industrial equipment that drive energy use and material consumption. Their work can directly support efficiency, emissions reduction, pollution control and reliable operation of lower-carbon technologies.

NOC 21311 – Computer Engineers (Except Software Engineers and Designers)

Computer engineers contribute to sustainability through the design and integration of hardware, communications systems and network infrastructure. Their work can improve energy efficiency, support smart monitoring, extend equipment life and enable digital systems that reduce waste and emissions across many sectors.

NOC 21399 – Other Professional Engineers

Other professional engineers include specialized engineering occupations such as agricultural and bio-resource engineers, biomedical engineers, engineering physicists and scientists, marine and naval engineers and textile engineers. Across these fields, they can advance sustainability by improving process efficiency, reducing waste, supporting better health and safety outcomes and developing technologies with lower environmental impact.

NOC 22300 – Civil Engineering Technologists and Technicians

Civil engineering technologists and technicians support sustainability by turning engineering concepts into practical designs, field information and construction oversight. Their measurements, drawings, testing and site support can reduce waste, improve environmental protection and help projects perform more efficiently over time.

NOC 31301 – Registered Nurses and Registered Psychiatric Nurses

Registered nurses and registered psychiatric nurses can support sustainability in health care through efficient clinical practice, prevention-oriented care, responsible resource use and safer management of medical materials. While patient care remains the priority, their daily decisions can reduce waste, improve public health outcomes and help health facilities operate more responsibly.

NOC 41402 – Business Development Officers and Market Researchers and Analysts

Business development officers and market researchers and analysts can play an important role in sustainability by identifying market opportunities, shaping development strategies and analyzing trends related to low-carbon growth, consumer preferences and responsible business investment. Their research and program work can help organizations and regions make better-informed sustainability decisions.

NOC 62100 – Technical Sales Specialists

Technical sales specialists can advance sustainability by helping customers select goods and services that reduce energy use, waste, emissions and operating costs.

Because they translate technical features into business value, they can accelerate the adoption of lower-impact equipment, digital systems and circular service models.

NOC 70010 – Construction Managers

Construction managers play a major role in sustainability because they control how projects are planned, sequenced, procured and executed on site. Their decisions influence material efficiency, construction waste, energy use, emissions, environmental protection and the practical implementation of greener building methods.

NOC 72023 – Railway Transport Operations Supervisors

Railway transport operations supervisors play a vital frontline role in implementing a rail company's environmental and sustainability goals. While they may not design the "cleantech" itself, they are responsible for the operational execution of green initiatives.

NOC 72410 – Automotive Service Technicians, Truck and Bus Mechanics and Mechanical Repairers

Automotive service technicians, truck and bus mechanics and mechanical repairers play a practical frontline role in sustainability by keeping vehicles efficient, safe and in service longer. Their inspection, maintenance and repair work can reduce fuel use, emissions, fluid leaks, parts waste and premature replacement of major vehicle systems.

NOC 73201 – General Building Maintenance Workers and Building Superintendents

General building maintenance workers and building superintendents support sustainability through their daily care of building systems, tenant spaces and common areas. By maintaining equipment, spotting problems early and coordinating repairs, they can reduce energy and water waste, extend asset life, improve indoor conditions and support responsible building operations.

NOC 73300 – Transport Truck Drivers

Transport truck drivers have a direct influence on fuel use, emissions, safety and freight efficiency through how they operate vehicles and manage trips. Their driving practices, inspections and cargo handling can significantly improve sustainability performance in transportation operations.

NOC 74200 – Railway Yard and Track Maintenance Workers

Railway yard and track maintenance workers are increasingly involved in “green” tasks as the rail industry shifts toward sustainability. Their work has evolved from purely mechanical repairs to include environmental stewardship and the deployment of cleantech solutions.