

CIVIL ENGINEER

N.O.C. 2131



DESCRIPTION:

Prepares project specifications for material, equipment purchase and installation. They deliver designs that meet industry standards, specifications, and solid constructibility. They complete project documentation, work with municipalities, contractors and the public to ensure design and construction is safe and meets standards

ONE OUT OF EVERY 17 CANADIAN WORKERS

EARN A LIVING IN CONSTRUCTION

SKILLS

- Communicating through problem-solving, research, teamwork and presentations
- Ability to maintain an overview of entire project while paying attention to detail
- Management ability and supervisory skills

DUTIES

- Design major civil projects such as buildings, roads, bridges, water/waste management systems
- Develop construction specifications and procedures to meet guidelines or regulations
- Conduct various studies (economic, municipal, regional, environmental impact)
- Monitor air, water and soil quality and develop procedures to clean up contaminated sites
- Conduct technical analyses of survey and field data for development of hydrological and prepare reports

EDUCATION

- A bachelor's degree in civil engineering or in a related engineering discipline is required
- A master's degree or doctorate in a related Engineering discipline may be required
- Licensing by a provincial association of professional engineers is required to approve drawings, reports and to practice as a Professional Engineer (PEO)

SALARY RANGE:

65,000 TO 150,000

Visit www.constructU.ca and take our career survey. To construct U!

PROGRAM DESCRIPTION:

The program allows you to choose your own courses and allows you to specialize in Civil Engineering of your choice. Civil Engineering is a broad branch of engineering and you are free to specialize in area of Civil Engineering such as structures, hydraulics and eco-hydraulics, transportation systems, flood forecasting, urban storm water management, waste water treatment, water supply, construction management, bioengineering and many more. You can also enhance your degree in water resources, environmental engineering and bio-mechanics.

WHERE TO STUDY IN ONTARIO:

CARLTON UNIVERSITY CIVIL ENGINEERING
LAKEHEAD UNIVERSITY CIVIL ENGINEERING
MCMASTER UNIVERSITY CIVIL ENGINEERING
RYERSON UNIVERSITY CIVIL ENGINEERING
UNIVERSITY OF TORONTO CIVIL ENGINEERING
UNIVERSITY OF WATERLOO CIVIL ENGINEERING

UNIVERSITY OF WESTERN ONTARIO CIVIL ENGINEERING
UNIVERSITY OF WINDSOR
UNIVERSITY OF OTTAWA CIVIL ENGINEERING



Asphalt Paving Crew	40,300	92,000
Bricklayer/Masonry	59,400	88,000
CAD Highway/Building Designer	38,000	125,000+
Carpenter	46,000	87,500
Crane Operator	55,000	87,800
Cement/Concrete Finisher	40,300	84,800
Civil Engineer	65,000	150,000+
Civil Technologist/Technician	45,000	100,000+
Labourer	40,300	92,000
Dispatcher	40,000	85,000

GETTING STARTED

THE OCCA CAN HELP YOU EXPLORE THESE THREE PATHWAYS:

- 1** You can begin by applying for a job directly in the Construction Industry. Once you begin working with a Construction Company or Contractor you will quickly gain the necessary skills needed to advance yourself through in-house, work-as-you-learn training.
- 2** You can enroll in a University, Community College or a Private Technical School to study and prepare yourself for a Career in Construction. All of this information may be found through our website.
- 3** You can get started through an apprenticeship program by combining on the job training with technical in-class training, gaining experience and increased responsibility. You can work in the industry, get paid, and work towards earning credits.

IF YOU ARE INTERESTED IN A CAREER IN CONSTRUCTION PLEASE CONTACT:

info@myOCCA.ca

www.myocca.ca

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OCCA

Ontario Construction Careers Alliance