

MUNICIPAL ENGINEER

DESCRIPTION

A career as a municipal engineer can be rewarding in many ways. You will be involved in a variety of urban infrastructure projects, and will use your engineering skills to develop and present solutions that have a direct impact upon the quality of everyday life.

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
- Technical skills and critical thinking
- Strong mathematics skills

DUTIES

- Plan and design major civil projects
- Evaluate and recommend appropriate building and construction materials
- Interpret, review and approve survey and civil design work
- Monitor air, water and soil quality and develop procedures to clean up contaminated sites
- Ensure construction plans meet guidelines and specifications of building codes and other regulations
- Conduct feasibility, municipal and regional traffic studies
- Conduct analyses of survey or field data for development of topographic

EDUCATION

- **A high school diploma is required**
- **A bachelors degree in Civil Engineering or in a related engineering discipline is required**
- Licensing by a provincial association of professional engineers is required to approve drawings, reports and to practice as a Professional Engineer (PEO)

RELATED PATHWAY OPTIONS

Civil Engineer
Surveyor
Estimator
Civil Engineer Technologist

SALARY RANGE \$65,000 to \$125,000

VISIT WWW.MYOCCA.CA FOR MORE CAREERS IN CONSTRUCTION

WHERE TO TRAIN

N/A

OTHER OPTIONS

CARLTON UNIVERSITY LAKEHEAD

UNIVERSITY OF TORONTO

UNIVERSITY MCMASTER UNIVERSITY

UNIVERSITY OF WATERLOO

RYERSON UNIVERSITY

UNIVERSITY OF WINDSOR

UNIVERSITY OF OTTAWA

UNIVERSITY OF WESTERN ONTARIO

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 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 .

3

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.

