



CIVIL ENGINEER

Apply asphalt or rock at proper depth, by hand, by using spreader boxes, or machine to obtain proper grade; rakes and shovels asphalt. Establish proper sub-grade and finish grade and prepare holes for patching. Operating the free-floating screed, they level the hot mix to the right thickness and evenness to produce the best roads.

Program:

Civil engineering is one of the broadest areas of engineering practice, and includes multiple fields of practice, such as structural analysis, roadways and transportation innovations, bridges, municipal works, geotechnical applications, hydraulics, and more. Civil Engineers prepare project specifications for material, equipment, and installation. They deliver designs that meet industry standards, and solid constructability. They complete project documentation, work with municipalities, contractors, and the public to ensure design and construction is safe and meets regulations.

Colleges :

- McMASTER UNIVERSITY- CIVIL ENGINEERING
- RYERSON UNIVERSITY- CIVIL ENGINEERING
- UNIVERSITY OF TORONTO-CIVIL ENGINEERING
- UNIVERSITY OF WATERLOO-CIVIL ENGINEERING
- UNIVERSITY OF WESTERN ONTARIO-CIVIL ENGINEERING



N.O.C. 2131

DUTIES

Reading Text
Document Use
Measurements & Calculations
Physical work
Problem Solving
Critical Thinking

SKILLS

- Design major civil projects such as roads, bridges, water/waste management systems
- Develop construction specifications and procedures to meet guidelines
- Conduct various studies and complete reports
- Conduct analyses of survey and field data for development of hydrological and prepare reports
- Communicating through problem-solving, research, teamwork and presentations
- Ability to maintain an overview of entire project while paying attention to detail

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 is required
- Licensing by an association of professional engineers is required

HAND ASSOCIATION

370 York Blvd, Unit 104

Hamilton, On

L8R 3L1