



## CIVIL ENGINEERING

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Civil Engineering youth apprentices contribute to the development, assessment, and design of highway, bridge, building, and municipal construction. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year. Completion of the Engineering Drafting pathway is a prerequisite to this program.

## COMPETENCIES

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Youth apprentices must complete a **total of 11** competencies. **Ten** must be from the list below. If necessary, employers can substitute **1** competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment.

Competencies
1. Interpret civil engineering technical drawings
2. Research code and site requirements
3. Contribute to site analysis with team
4. Analyze site measurements and data
5. Research structural requirements
6. Create material specifications
7. Design site structures
8. Draw a working site plan
9. Construct a bill of materials
10. Create a project plan
11. Support coordination of project activities

## POST-SECONDARY PATHWAY OPPORTUNITIES

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There are several post-secondary pathway opportunities in this area. The following is a partial list.

- Civil Engineering Technology
- Mechanical Design Technology