



# Engineering Drafting

Youth Apprenticeship

## ENGINEERING DRAFTING

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Engineering Drafting youth apprentices prepare engineering drawings using current industry software, integrating concepts of building materials, engineering practices, and mathematics. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year. This pathway is the prerequisite to second year engineering programs.

## COMPETENCIES

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Youth apprentices must complete a **total of 13** competencies. **Eleven** must be from the list below. If necessary, employers can substitute **2** competencies with another occupationally appropriate skill. That skill should be added to the competency list for assessment.

Competencies
1. Interpret technical drawings
2. Use measuring devices
3. Organize databases, files, and drawings
4. Reproduce documents and plans
5. Use engineering drafting software
6. Develop 2D (orthographic) view drawings
7. Develop 3D view models
8. Prepare auxiliary views
9. Prepare section views
10. Complete drawing dimensions
11. Apply lettering and basic annotation to drawings
12. Revise draft drawings
13. Participate on an engineering project

## 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