

Research and Design in Building Trades (2023)

The following competencies are to be taught within ALL application level courses offered in your school's approved pathway. [0](#)

- 1 Demonstrate an understanding of industry standards for personal safety including the safe use of tools, equipment, and hazardous materials. [0.1](#)
- 2 Demonstrate time management skills. [0.2](#)
- 3 Create and utilize employment documents including a resume and portfolio. [0.3](#)
- 4 Demonstrate job seeking and interview skills. [0.4](#)
- 5 Understand and respond to performance reviews. [0.5](#)

Benchmark 1 [1](#)

- 1 Draw set of house plans. [1.1](#)
- 2 Research building permits and codes. [1.2](#)
- 3 Research footings and foundations. [1.3](#)
- 4 Research post and beam construction. [1.4](#)
- 5 Research system-built housing. [1.5](#)
- 6 Research careers in building trades. [1.6](#)
- 7 Research applications of “green building”. [1.7](#)
- 8 Demonstrate knowledge of advanced roof systems, including seam metal roofs. [1.8](#)
- 9 Demonstrate knowledge of advanced floor systems and floor coverings. [1.9](#)
- 10 Demonstrate knowledge of advanced wall systems including firewalls and sound control walls. [1.10](#)
- 11 Demonstrate knowledge of advanced stair systems including stairs for commercial construction. [1.11](#)
- 12 Research Modern & Future trends in equipment, methods & techniques [1.12](#)
- 13 Research Modern & Future trends in material management [1.13](#)

