

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

14 Utilize effective management techniques to organize work flow. 1.14