

# Advanced Studies: Construction and Design (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 Employ basic methods of data collection and analysis to provide information for projects. 1.1
- 2 Research and report on methods for employing “Green Building” techniques. 1.2
- 3 Research and report on the latest technology used in HVAC Systems design. 1.3
- 4 Research and report on the latest technology used in Electrical Systems Design. 1.4
- 5 Research and report on the latest technology used in Plumbing Systems Design. 1.5
- 6 Apply suitable practices of environmental impact to enhance project acceptance and quality. 1.6
- 7 Integrate structural, environmental, safety, building envelopes and building service systems to design and construct buildings and structures. 1.7
- 8 Develop a landscape design for a commercial building. 1.8
- 9 Appreciate the diversity of needs, values and social patterns in project design to appropriately meet client needs. 1.9

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**10 Use communication skills and strategies to work effectively with potential clients.** 1.10

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**11 Develop a set of construction documents that align with current architectural standards.** 1.11

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**12 Present project design to panel of peers for comments.** 1.12