

# Advanced Materials Technology (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 Research and apply composite materials fabrication. 1.1
- 2 Research and apply overlay/veneer materials fabrication (for woods based courses). 1.2
- 3 Research and apply appropriate tooling methods for chosen materials. 1.
- 4 Research and apply appropriate methods of assembly for materials and applications (adhesives, welds, etc.). 1.4
- 5 Research and apply appropriate finishes and proper finish procedure of chosen materials. 1.
- 6 Design and engineer a product using CAD and/or CAM software systems. 1.6
- 7 Understand and demonstrate operations of advanced technology systems. 1.7
- 8 Demonstrate effective techniques to manage and organize production flow. 1.8
- 9 Research and understand related career fields and postsecondary training opportunities. 1.9
- 10 Implement and manage a safety program for procedures and hazardous materials. 1.10