

## **Manufacturing Technology, Grade 11 – Workplace Preparation TMJ 3E0**

This course introduces students to the scope of the manufacturing industry, the various components used in the design of products, the industrial tools and equipment used, and methods of manufacturing, including assembly-line production. Students will learn about technical drawing; preparation processes; manufacturing techniques; power, electronic, and quality control systems; careers in the manufacturing field; and the role of entrepreneurs in Canadian society.

- Demonstrate the proper and safe use of machinery in the manufacturing lab.
- Utilize the design process to create and manufacture a project from raw materials.
- Solve problems related to manufacturing and other related industries.
- Understand how to fabricate and develops skills on a wide variety of machinery.
- Learn how to evaluate products and perform post production analysis of items manufactured in the manufacturing lab.
- Create projects such as flashlights, cell phone cases, Turner's cube, welding design, key chains, engraving, air powered engines, ect.

**Prerequisite:** None