

MODULE 1

MANUFACTURING- CNC MILL AND LATHE

OBJECTIVE 3-MANUFACTURING OF PAWN, BISHOP, OR QUEEN

➤ **SMART Goals**

In this Objective you will:

- Design a chess piece using SolidWorks® drawing program.
- Manufacture a 3D prototype from the Dimension® printer.
- Design a facsimile of your SolidWorks® design using Lathe CAM Designer.
- Simulate the program and turn the part on the Denford NovaTurn.

➤ **You will need to complete**

- CAD design of chess piece.
- STL file and prototype of chess piece.
- G-code program.
- Simulation of program.
- Manufacturing of the product.

➤ **Turn In**

- Checklist.
- CAD drawing.
- **Show** prototype to instructor.
- G-Code program.
- **Show** simulation to instructor.
- **Show** manufactured product to instructor.
- **Quiz 3- MANU 1**