

# **PROTOTYPING POWERPOINT PRESENTATION**

## **BACKGROUND**

*This prototyping project provides you with a set of technical drawings and point form step-by-step instructions for prototyping each of the components. This project is designed to allow you to build intermediate level functional prototypes and to provide familiarity and practice with basic lathe and milling machine operations.*

*During the introductory lectures, you were presented detailed technical information about the lathes and milling machines, related machine tools, their set-up, and safe operating practices.*

## **SCENARIO**

Your employer assigned you to work on the design and development of a new scriber hand tool that will be produced for the North American market. They will test the design by first making a small quantity of scriber prototypes for a focus group that will test them and give feedback before they are put into production. As a result, they have asked you to produce a PowerPoint presentation outlining the steps required to manufacture the scriber by hand using conventional machine tools so that the machine shop employees may accurately reproduce them. The presentation may also be viewed and utilized by other company personnel.

## **ASSIGNMENT**

1. Create a PowerPoint presentation that documents the steps that you have taken to create this project from start to finish.
2. You need to take clear, explanatory photos of the stock materials, machine set-ups, and transformation actions of each step as you are constructing the scriber.
3. Design and illustrate your presentation in a logical, step-by-step order with accompanying explanatory annotations (notes) to the images that will allow machine shop employees to completely understand your work method without any additional verbal input from you. Point form notations are acceptable. Your presentation has met its goal if it is comprehensible on its own. Clear, straight-forward written and visual communication integrating appropriate technical terminology where applicable, is required.

## **OUTCOMES**

1. Gauge students' understanding of the concept(s).
2. Help reinforce students' understanding and retention of course materials using descriptive writing and images.
3. Students gain competency in clearly and coherently writing for a professional business scenario through the reflection and documentation of an activity using a specific context.