Activity Using VCarve: Making a Sign

Introduction

Cabinet making has moved towards the industry standard of Computerized Numerical Control (CNC) Machining. In this activity you will design, build, and finish a sign (15.25" X 8") made from Medium Density Fiberboard (MDF). The Design will include a pocket or Vcarve tool and a border around your design. It can not be any deeper than ¼ inch and may only use 1 tool type.

Equipment

- Desktop Computer
- MDF
- Paint and/or Poly
- CNC

Deliverables

- Complete Safety Contract and General, Table Saw and Miter Saw Safety Assessments
- Create Sign 15.25" wide by 8" tall *(prepare material before going to CNC)*
- Create a Border that is 13" wide and 5 ¾" tall and aligns with guide line on template file
- Design using either **VCARVE** or **POCKET** tool with a **PROFILE** border (no tool bit changes.)
- The maximum Depth you may cut is ¼"
- Must use a ¼" DOWNCUT BIT or (60 or 90) VCARVE bit.
- Sand, poly/paint your sign to finish

Resources

- **Walkthrough Video**
- **Profile Tool**
- **Pocket Tool**
- **Setup Stock**
- **Logo Trace**

Scoring

You will be graded on the following:

- Employability
- Safety
- Plans
- Craftsmanship
- Finish
- Deadline

Conclusion Questions

1. What are some advantages or disadvantages using the CNC Router?

2. Do you think you could use this for your project? If so, in what way?