

INT112 LAB 1.2: TOOLS & TOOLING

Student Name: _____

Student ID: _____

LAB OUTCOMES:

Upon completion of this lab procedure, the student should be able to:

1. Identify basic types of cutting tools used in the machine shop.
2. Identify a given cutting tool by type and size.
3. Locate a specified tool within the machine shop.

LAB PROCESS:

Before entering the machine shop, ensure that you have observed all required safety procedures:

- Safety glasses on
- Closed-toed shoes
- No rings or other jewelry
- No loose-fitting clothing
- Long hair pulled back
- Not under the influence of any substance that dulls reaction time or judgement

Part 1

1. In the machine shop tool drawers, locate the following files:
 - a. Rat tail file
 - b. Flat file (course)
 - c. Flat file (fine)
 - d. File handle
2. In the machine shop tool drawers, locate the following tap:
 - a. $\frac{1}{4}$ - 20"

3. In the machine shop tool drawers, locate the following drills:
 - a. Letter O
 - b. 5/16"
 - c. Number 7
4. In the machine shop tool drawers, locate the following mill cutters:
 - a. 1/2" flat end mill (4 flute)
 - b. 3/8" ball nose end mill (4 flute)
 - c. Fly cutter
 - d. Face mill
5. In the machine shop tool drawers, locate a lathe bit in a tool holder.
6. In the machine shop tool drawers, locate a reamer.
 - a. What size of reamer is this?
7. Return all tools to their designated location.

The outcomes of this exercise (listed on page 1) specifies the skills that the Student must demonstrate to the Instructor. Once the Instructor is satisfied with the demonstration of Knowledge & Skills by the individual student, they will sign this document (for the student), then enter a 100% into the Hands-On Lab grade in Sakai.

I verify that this student has completed all of the requirements of this Hands-On Assessment:

Student Name: _____

Faculty Signature: _____ Date: _____

DOL DISCLAIMER:

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