CNC Mill MODULE

Name: _____ **Rotation #:** _____ **Hour Code:** _____ **Date:** _____	
Name: _____	

LESSON 1- You need to read the "Notes" page each lesson before beginning.

LESSON 2 –

"Mill level 4 Software Programming Sheet #1". Turn in sheet at end of module. **Instructor's Initials:** _____

LESSON 4-**You must have the items below checked by the instructor before milling your plastic**.

Compiler Checked by Instructor_____   Emulator Checked _____   PRZ Checked by instructor _____

LESSON 5

MILL LEVEL 4 SOFTWARE PROGRAMMING SHEET #2. Turned in. **Instructor's Initials:** _____

LESSON 6- You must have the Compiler, Emulator and PRZ checked by the instructor.

Compiler Checked by Instructor_____   Emulator Checked _____   PRZ Checked by instructor _____

LESSON 7- You must have the Compiler, Emulator and PRZ checked by the instructor.

Compiler Checked by Instructor_____   Emulator Checked _____   PRZ Checked by instructor _____

"PROGRAM SHEET" #3 turned in.   **Instructor's Initials:** _____

When it comes to the part where you are suppose to change the tool setup as part of running the program, press "ENTER" and continue to Mill the part.

COMPLETED PART-   **Instructor's Initials:** _____

Career Research

What career do your interests place you into this "**physical** technologies" field?

_____

_____

CNC Mill "NOTES"

Be sure to take notes at this module!!!

LESSON 1
Lesson 1 is an introduction to the CNC Mill and its safe operation. Take notes because there are two **difficult** exercises/quizzes.

LESSON 2 –
Make a note of the name of each part of the lesson; it's on the exercise quiz at the end of the lesson.
Fill out the "**Mill level 4 Software Programming Sheet #1**

LESSON 3
You will **save** your program on the hard drive, not on a floppy disk. **Save** on your server drive with your names and the words "Mill Program".

"Activity 1-You are the Programmer". Enter the program into the computer using the MILL LEVEL 4

SOFTWARE. Ask the instructor for any additional and necessary instructions.

LESSON 4
Get the plastic piece from the instructor. Put your name and hour on it. You will use the same piece in lessons 4, 6 & 7.
Use the **Student Guide** printed in the **White Notebook.** Read and follow the directions on pages 13-18. **Note: you must have the instructor help you on page 15 .**
Use the pages listed in the "Student Guide" to: Load the Work piece p.14, "Setting the Tool Position" p. 15&16 including the "PRZ", and "Downloading Your Part Program" p.17. Have the instructor sign off on the Compiler, Emulation, and PRZ.
When you have discussed the setup with the teacher and feel comfortable running the mill you can machine your part.
When done making the piece/part, Use the Shop-Vac to vacuum out the machine.

LESSON 5
MILL LEVEL 4 SOFTWARE PROGRAMMING SHEET #2 AND ACTIVITY #3 IN STUDENT GUIDE.
You will get signed off on the worksheet when you turn in your grade sheet at the end of this module.

LESSON 6
ACTIVITY #4 IN STUDENT GUIDE**--** Refer to the Activity #2 directions pages 3-15 as necessary.
Have the instructor check your PRZ set up. Get an initial from the instructor before machining.

LESSON 7
MILL LEVEL 4 SOFTWARE PROGRAMMING SHEET #3-- Do ACTIVITY #5 IN STUDENT GUIDE.

Refer to the Activity #2 directions pages 3-15 when necessary. **Have the instructor check your**

PRZ set up and get signed off. Then machine the part. When it comes to the part where you are

suppose to change the tool setup as part of running the program, **press "ENTER"** and continue to

Mill the part.

Career Research – do the activity then take the post test

MILL LEVEL 4 SOFTWARE PROGRAMMING SHEET #1

Program Information

Program Name	
Author	
Material	Plastic/Wax
Drawing No.	
Width (X)	
Depth (Y)	
Height (Z)	

PART Program

Line #	Instruction	Comment
00001		
00002		
00003		
00004		
00005		
00006		
00007		
00008		
00009		
00010		
00011		
00012		
00013		

MILL LEVEL 4 SOFTWARE PROGRAMMING SHEET #2

Program Information

Program Name	
Author	
Material	Plastic/Wax
Drawing No.	
Width (X)	
Depth (Y)	
Height (Z)	

Tools Used

Tool #	Description	Diameter	Radius
#9			

PART Program

Line #	Instruction	Comment
00001		
00002		
00003		
00004		
00005		
00006		
00007		
00008		
00009		
00010		
00011		
00012		
00013		
00014		
00015		
00016		
00017		
00018		
00019		

MILL LEVEL 4 SOFTWARE PROGRAMMING SHEET #3

Program Information

Program Name	
Author	
Material	
Drawing No.	
Width (X)	
Depth (Y)	
Height (Z)	

Tools Used

Tool #	Description	Diameter	Radius

PART Program

Line #	Instruction	Comment
00001		
00002		
00003		
00004		
00005		
00006		
00007		
00008		
00009		
00010		
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