Hamilton-Juniors lab-off-site learning packet day 6

Instructor___Mark Hamilton_____   **Date**_____

Program/Class_____AEM JR_____

Instructional Objective(s):

Materials:
White board

Method of Instruction:
Research

Activities:
Read through handouts, watch videos and do activities
Answer the questions provided

Closure:
Answer questions on the last page

Assessment:
Answer sheets will be collected and is worth _____ points

Name_____

Introduction to CNC code
A program

A program is a series of blocks and normally contains a complete set of coded instructions required to completely machine a part or a predetermined portion of a part. A program can be as short as a few blocks or as long as many thousand blocks for complex parts. The program contains all the instructions and information necessary for the computer to command the machine to perform specified functions, ultimately resulting the complete machining of a part.

A program and all of its parts, can be equated to the English language as follows:

CNC Code Language	English Language Equivalent	Comment
Character	Character	The characters are the same for both languages. (1,2,3...;,+,=,%....)
Word	Word	The word is merely a combination of characters in both languages. It's just that the combination of characters in the NC Code Language is a little different than we are used to seeing, but they are still words none-the-less
Block	Sentence	The block is equivalent to a sentence in the English Language. They both convey specific thoughts or commands and have punctuation that end them.
Program	Memo or Letter	The program is equivalent to a complete memo or letter in the English Language. They both are a combination of sentences/blocks that convey complete ideas (English) or completed parts (NC Code).

Questions (each question is worth 5 points)

1. What is a program made up of?

2. What is the purpose of a fully written program?

3. How many blocks of information does it take to make a program?

4. How is a program similar to the writing of a letter?