CNC CUTTING CHECKLIST
FILL THIS OUT COMPLETELY

INSTRUCTOR: ____________________________  DATE: ____________________________
CLASS: ________________________________  TIME: ____________________________
STUDENT ID: ____________________________
STUDENT NAME: ____________________________
STUDENT EMAIL: ____________________________
STUDENT PHONE: ____________________________

CERTIFIED TO USE CNC  YES  NO

CHIP LOAD / FEED AND SPEED CALCULATION:
(If you have any questions about these values please consult the website or stop by the CNC Shop)

MATERIAL: ____________________________
CHIPLOAD VALUE FROM WEBSITE: ____________________________
FORMULA: I.P.M. = (chip load) x (number of flutes) x (R.P.M.)
_________ x (_________ x (_________ x (_________)

CUT DETAILS:
TOTAL CUT TIME: ____________________________
(from shop documentation, PLEASE NOTE THAT IF YOUR CUT TIME EXCEEDS 4 HOURS IT MUST BE CHECKED FOR EFFICIENCY BY SHOP STAFF.
IS THIS A FLIP MILL?
HOW MANY TIMES WILL THE FILE BE CUT? ____________________________

NC File Name
-Cut Speed (IPM)_____________ - Spindle Speed (RPM)_____________
-Step Over_____________ - Step Down_____________
-Bit Used_____________

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1. I have brought this checklist printed and filled out along with my "Shop Documentation"
   printed out from RhinoCAM, accompanied by a NC file, backed up by a CAM file, on a thumb drive.
2. I have checked to make sure that I am removing the appropriate amount of material in a roughing cut
   and leaving the appropriate amount of material for a finishing cut.
3. I have checked that my feeds and speeds (rates of cut speed (IPM) and spindle rotation speed (RPM),
   respectively) are appropriate to the chipload of the material and the bit I am using. Failure to check
   these numbers can result in fire hazards, broken bits and machine stoppage.
4. I have checked that my step down dimension (the dimension between vertical passes) is equal to my
   bit width and is not so large as to create drag, friction, or any other undesired result nor so small as to
   waste machine time. Failure to check this dimension can result in fire hazards, broken bits and machine stoppage.
5. I have checked that my step over dimension (the dimension between horizontal tool passes) is not so
   large as to create an undesirable rough or scalloped result nor so small as to waste machine time. Failure to check
   this dimension can result in fire hazards, broken bits and machine stoppage.
6. I have checked that my plunge rate and angle (the speed and angle of the entry and exit cut) is appropria-
   te to the chipload of the material and the bit I am using. Failure to check this dimension can result
   in fire hazards, broken bits and machine stoppage.
7. I have brought and will use all of the required safety equipment as well as adhere to all safety guide-
   lines.
8. I have reviewed this document and my files with my instructor and understand that failure to do so
   may result in being turned away from the CNC machine, a lost place in line and a loss of cutting time.

FOR MONITOR USE ONLY

Monitor Name: ____________________________
Cut Start Time: ____________________________
Cut Finish Time: ____________________________

File Cut Successful without incident?  YES  NO

Use The Space Below to Describe any Issues with Cut