

CNC Milling Rules

1. The total time for the contest is
Session #1 - 8:30 am to 12:00 pm
Lunch 12:00 pm – 12:45 pm
Session #2 12:45 pm – 2:30 pm
2. Every contestant will be provided a basic program *that is intentionally flawed*. Contestant may choose to use that program and edit it or develop their own new program.
3. All of the required cutting tools are already loaded in the CNC Mill. These are:
 - 2.5” face mill
 - .750” end mill
 - .250” end mill
 - 1/4 drill
 - ¼ - 20 tap
4. You must not exceed 2000 RPM and do not need to use coolant. The material is a modeling foam
5. Your feed rates must be safe and will be determined if so by the judges.
6. A judge will run your part on the CNC Lathe. The completion of the part **is not the responsibility** of the contestants. But, judges will determine if your submitted program will actually complete your part. Judges can refuse to run if they believe there are dramatic errors or dangers.
7. You can check your program on a simulator or on the CNC machine. As soon as you leave either your program will be deleted.
8. Safety glasses must be in place when entering the machine area. You do not need them in the computer room.
- 9. YOU MAY NOT USE YOUR CELL PHONE FOR ANY PURPOSE.**
10. If you require any tools or supplies, ask the contest facilitator.
11. If you do not know how to solve a problem in a program or on the machine, the judge may help you with very a minor problem. But if you are completely at a loss on what to do, the judge cannot help you.
12. During lunch students must stay in the shop during lunch time.
13. Students must ask the judge to use the bathroom. The student must surrender their cell phone.
14. Students CAN NOT speak to other students during the contest.