



Precision Machining SkillsUSA Indiana State Competition- 2021

BEFORE YOU BEGIN:

1.Ensure you have the proper supplies and materials:

Lathe tool list

Appropriate wrenches, 1" micrometer, 2" micrometer, 6" ruler, 6" calipers, Carbide or high speed steel cutting tools, File, Indicator to indicate in a 4-jaw chuck.

All students MUST use a 4-jaw independent chuck.

Materials: 1.25 diameter by 4.125 long cold rolled steel.

Instructors you MUST acquire your materials for your students.

Milling tool list

Parallels, dead blow hammer, drill sets, .250 end mill, .3125 end mill, .375 end mill, .500 end mill, .750 end mill, 3 reamers(.250, .375 and .500 diameters), edge finder, calipers, 1" micrometer, 2" micrometer, 3" micrometer, depth micrometer, center drill, drill chuck, collets and file.

Materials: 1.250 x 2.000 x 2.500 cold rolled steel

Instructors you MUST acquire your materials for your students.

2.Secure a proctor.

A local contest proctor (non-advisor/program instructor) must be present for the entirety of the contest. The proctor should review the technical standards, this document and the state contest which will include an integrity statement containing additional information for the proctor.

Once the contest is complete, the contestant(s), chapter advisor and proctor will sign-off on the entry integrity statement. Additional contest proctor information can be found at skillsusalsms.org.

**Proctor must be an adult no students will be allowed as a proctor for any contest or testing purposes.*

A proctor is required for online written exams. Two written exams are required for this competition. The written exams may at any time during the designated testing window. No supplemental or reference materials are permitted for written exams. Upload the signed integrity statement with your contest submission.

☐ **Professional Development Exam:** April 5 at 7AM EST through April 21 at 5PM EST

☐ **Precision Machining Technical Exam:** April 5 at 7AM EST through April 21 at 5PM EST



3. Set up your workstation. Set your workstation so that you complete the tasks.

CONTEST INSTRUCTIONS:

Contest Date: April 24, 2021

Time: 9:00 am (2-hour time limit)

Contest will be given out that morning

Scores due date: April 24, 2021 by 12:00 pm (noon) to Mick Jarrett

2 stations; Lathe and Milling.

Each station is 25 minutes long.

SUBMISSIONS:

- ☐ Resume-PDF File (window open between 4/5-4/21)
- ☐ Integrity statement- PDF file (due same day at competition)

All submission should follow the Submission instructions,

<https://drive.google.com/file/d/1xRDQ3uC7zbE548NToeuhv2waZyUGklxw/view?usp=sharing>

YOUR CONTEST CODE: PMACH

Submit all files to the following link,

<https://www.dropbox.com/request/S69oxXQZnCEpGk2xG1ea>