



Precision Machining - South

Purpose: To evaluate each competitor's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of precision machining.

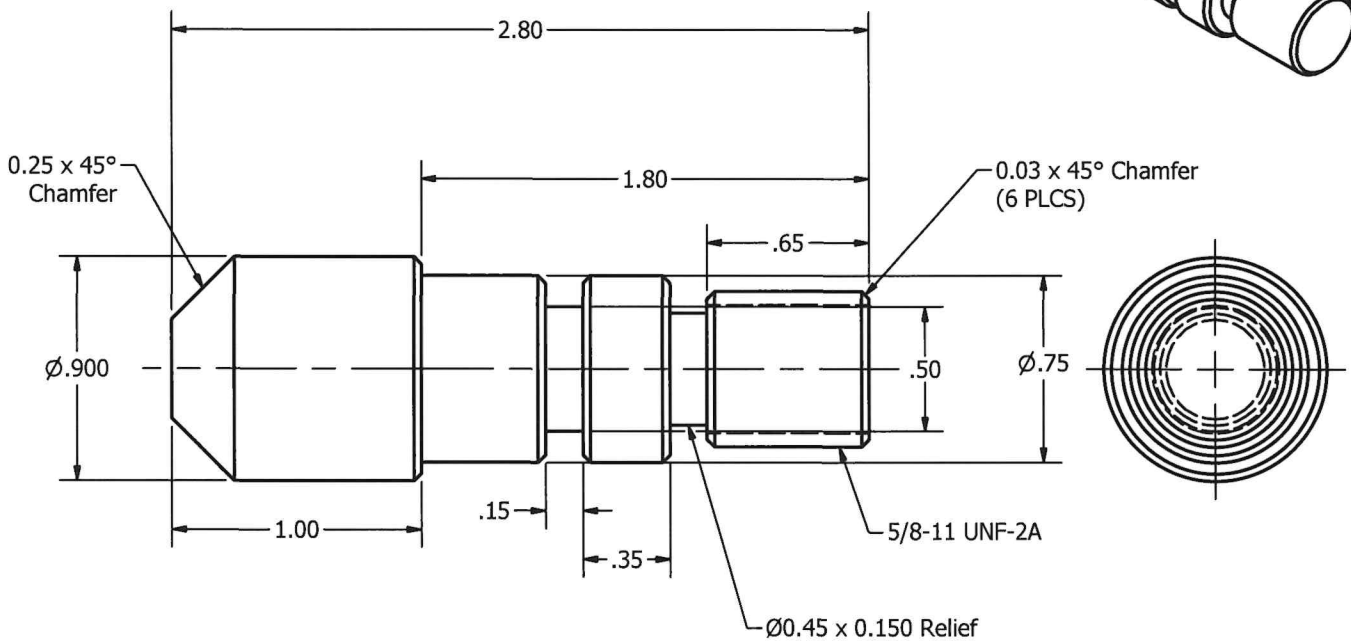
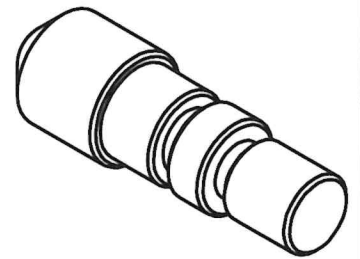
Registration Deadline for this competition is Jan 10, 2025.

On-Site/Off-Site	<ul style="list-style-type: none"> Off-Site
Contest Date	<ul style="list-style-type: none"> January 24th, 2025
Contest Location	<ul style="list-style-type: none"> Sinclair Community College - Machine Technology Lab 35 Eaker Street Dayton, OH 45402
Early/Normal Start Time	<ul style="list-style-type: none"> Early Start Time Lab will open at 7:30 AM. REGISTRATION 8:00 – 8:30 AM. Machine and Lab Familiarization 8:30 – 9:00 AM Contest 9:00 – 12:00 PM
Contest Open/Closed	<ul style="list-style-type: none"> Closed
Eligibility	<ul style="list-style-type: none"> Schools may send three (3) Competitor(s) per school (Building IRN) based on local competition.
Competition Clothing (To be worn on Day 1)	<p>Work/School Attire:</p> <ul style="list-style-type: none"> Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Shoes or work boots with a hard sole and anti-slip properties. Clothing should be as such that it will not get caught in moving equipment or power tools.

	<ul style="list-style-type: none"> ▪ Professional attire worn in the classroom (school uniforms) such as a criminal justice uniform, chef attire, health scrubs, or cosmetology scrubs etc. may be worn if they meet the above requirements. ▪ Note: School identifiers and contestant names must be covered.
<p style="text-align: center;">Safety Equipment Required</p>	<ul style="list-style-type: none"> ▪ Safety glasses with side shields or goggles (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles).
<p style="text-align: center;">Awards Ceremony Attire (To be worn on Day 2)</p>	<p>SkillsUSA Official Attire:</p> <ul style="list-style-type: none"> ▪ Official SkillsUSA red blazer ▪ Button-up, collared, white dress shirt (accompanied by a plain, solid black tie or SkillsUSA black tie), or white shirt (collarless or small-collared), with any collar not to extend into the lapel area of the blazer ▪ Black dress slacks or black dress skirt (knee-length at minimum) ▪ Black closed-toe dress shoes ▪ Note: Wearing socks or hose is no longer required. If worn, socks must be black dress socks, and hose must be either black or skin-tone and seamless/nonpattern <p style="text-align: center;">Or,</p> <p>Business Dress:</p> <ul style="list-style-type: none"> ▪ Blazer, sports coat, or dress ▪ Button-up, collared, white dress shirt (accompanied by a plain, solid black tie or SkillsUSA black tie), or white shirt (collarless or small-collared), with any collar not to extend into the lapel area of the blazer ▪ Dress slacks or dress skirt (knee-length at minimum) ▪ Closed-toe dress shoes ▪ Note: Wearing socks or hose is no longer required. If worn, socks must be black dress socks, and hose must be either black or skin-tone and seamless/nonpattern
<p style="text-align: center;">Testing</p>	<ul style="list-style-type: none"> ▪ There is no written knowledge test required for this competition.

<p>Provided by Contestant (Tool List)</p>	<p>Students must bring the following items:</p> <ul style="list-style-type: none"> ▪ Pencil and Paper ▪ Safety Glasses ▪ Hard Sole Shoes ▪ Calculator (student preference) (no cell phone) ▪ Work pants or Jeans (no holes, no wind suits, no sweat pants) ▪ Work Shirt, (may wear lab coat, smock, or apron) (no identifying names or logos) <p><u>No Large Tool Boxes Needed and Will Not Be Allowed Near Machines</u></p> <p>Students may bring the following items: (not required but may prefer personal measuring tools)</p> <ul style="list-style-type: none"> ▪ 6-inch caliper ▪ 0-1 micrometer ▪ 1-2 micrometer ▪ 0-1 depth micrometer ▪ Reference Materials, handbooks <p><u>Sinclair Community College will supply all machine tooling and accessories for machining part to include:</u></p> <ul style="list-style-type: none"> ▪ Edge finder ▪ Parallels ▪ Wrenches and Hex keys ▪ Center gage ▪ Center drills ▪ Drills ▪ Endmills (HSS) ▪ Counter sinks ▪ Hammer and Dead Blow Mallets ▪ Facing, Threading, Grooving, and Turning Tools (Carbide Insert Tooling) ▪ Cutting fluids and Shop Towels
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Contest Notes, Themes, & Deadlines	<ul style="list-style-type: none"> ▪ Registration Deadline for this competition is January 10, 2025.
Special Notes	<ul style="list-style-type: none"> ▪ Starting in 2025, all State Contests will begin to add a scenario-based component. ▪ Contact with Contest Coordinators is prohibited. Contact with Contest Coordinators outside of the SkillsUSA Ohio office may result in contestant disqualification. ▪ All safety requirements will be heavily enforced. Violation may result in contestant disqualification. ▪ No smart watches and/or phones are permitted during the contest and/or in contest. ▪ No contact with anyone outside of the contest area once the contest begins. ▪ No inappropriate communication between contestants such as verbally degrading another contest. ▪ No cheating on any portion of the contest such as informing another contestant of the skills/test prior to competing. ▪ Starting in 2025, Wi-Fi is provided for contests where it is required for contest success.
National Technical Standards	<ul style="list-style-type: none"> ▪ This is a State Only competition, there is no corresponding National Technical Standard.
Resume/Interview Requirement	<ul style="list-style-type: none"> ▪ All SkillsUSA Ohio State Championship Contests will require a short interview component. Students should be prepared with basic job interview skills. ▪ All contestants must have a hard copy of a one (1) page personal resume.



 **SINCLAIR COMMUNITY COLLEGE**
Dayton, Ohio

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TOLERANCES
 .X - ± 0.1
 .XX - ± 0.010
 .XXX - ± 0.005
 .XXXX - ± 0.0002
 FRACTIONAL - $\pm 1/64$
 ANGLE - $\pm 1'$

PART NAME

Manual Lathe Part

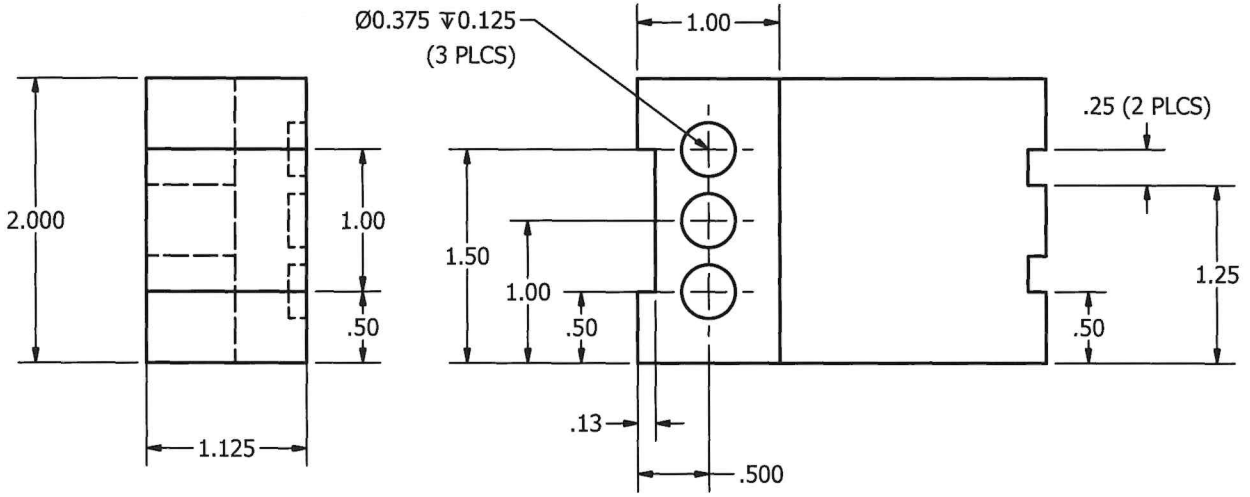
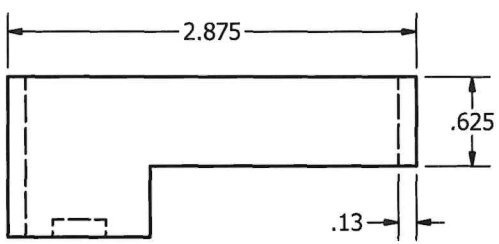
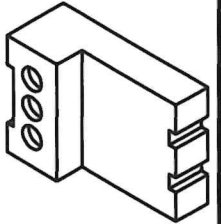
SHEET


1 OF 1

MATERIAL

$\phi 1.0'' \times 3''$ 6061 Alum.

SCALE



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Dayton, Ohio

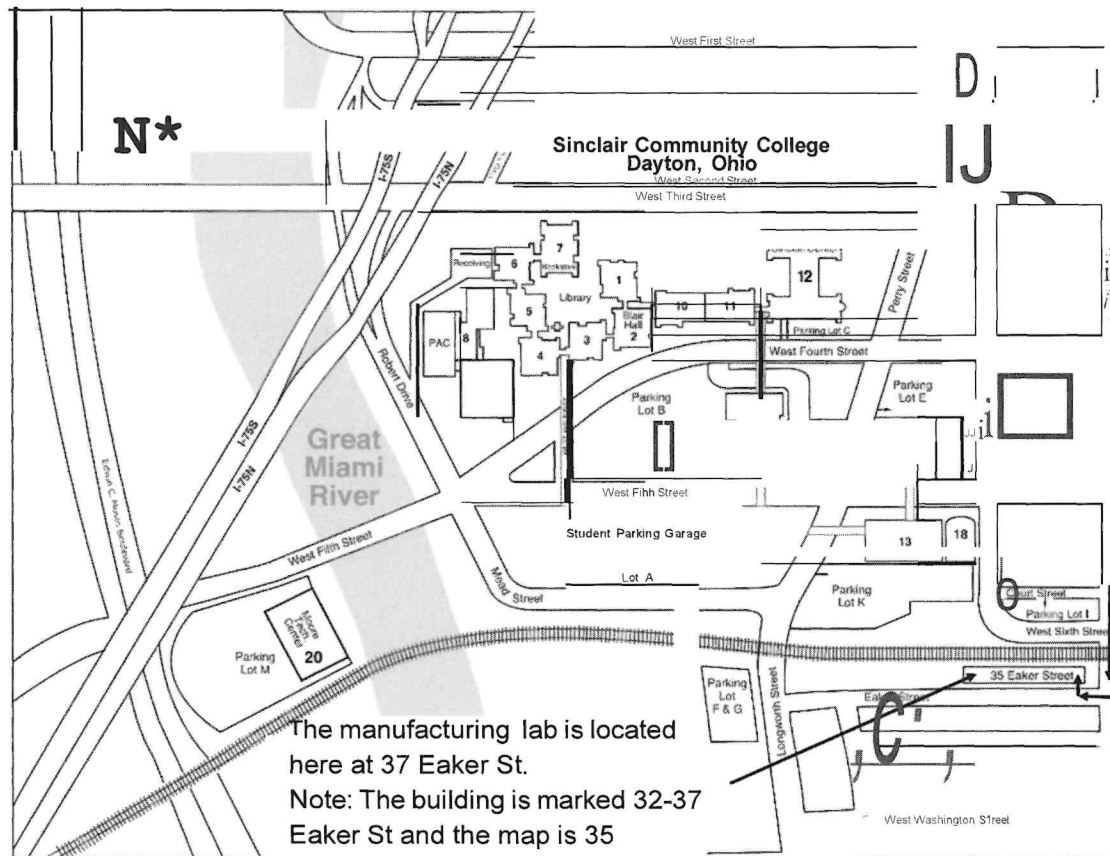
SkillsUSA
JM

TOLERANCES	.X - ±.1	.XXXX - ±.0002
	.XX - ±.010	FRACTIONAL - ±1/64
	.XXX - ±.005	ANGLE - ±1°

PART NAME	Manual Mill Part
MATERIAL	1.25" x 2.25" x 3" 6061 Alum

SHEET	1 OF 1
SCALE	

Sinclair College
Advanced Manufacturing Lab
37 Eaker St.
Dayton, Ohio

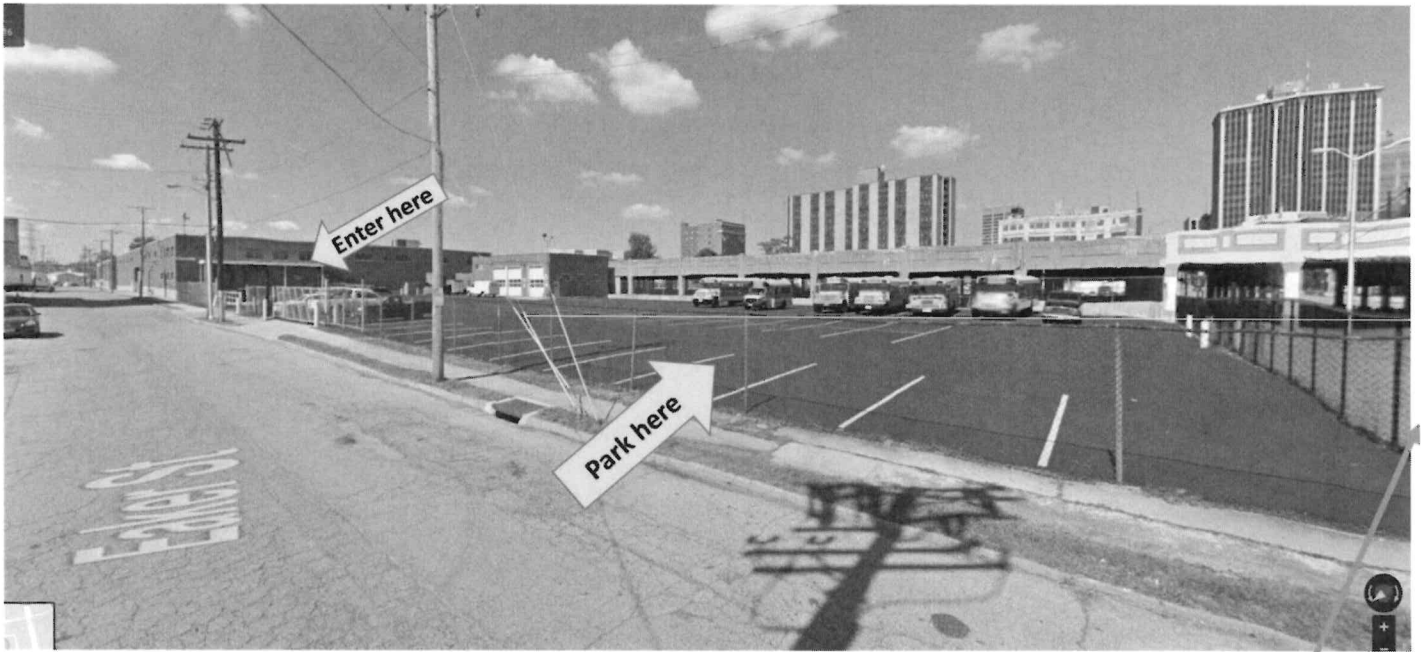


The manufacturing lab is located here at 37 Eaker St.
 Note: The building is marked 32-37 Eaker St and the map is 35

Parking is on the corner of Ludlow and Eaker St. Enter off of Eaker.



Park here, corner of Eaker and Ludlow, across from CJ tennis courts.



Eaker St

Ludlow St