

Over All Competition Rubric

Student #: _____

Items Evaluated	Points Possible	Points Earned	Comments
Written Test	39		
Mill Part	88		
Lathe Part	95		
Resume'	15		
Total Points	234		

Skills USA NTC Regional Competition



Lathe Part Rubric

Student#: _____

Grading: Each objective has the point value to the right of the objective and each one objective is graded pass or not pass.

Print Dimension	Size Limits	Points per Dim.		Comments
2-1/2"	2.485/2.515	5	0	
1.000" \varnothing	.997/1.003	5	0	
1.188" \varnothing	1.185/1.191	5	0	
1.03" \varnothing	1.020/1.040	5	0	
1.188" \varnothing	1.185/1.191	5	0	
1.06" \varnothing	1.050/1.040	5	0	
1.438" \varnothing	1.435/1.441	5	0	
.25	.240/.260	5	0	
.81	.800/.820	5	0	
1.44	1.430/1.450	5	0	
.31	.300/.320	5	0	
.38	.370/.390	5	0	
9/16-3/4" \varnothing	.562/.750	5	0	
1-1/4" deep	1.235/1.265	5	0	
1/32"x45° Both Ends	.015/.045	5	0	
1/8"x45°	.110/.140	5	0	
1/2"-20 UNF 2B	1/2-20	5	0	
125 Surface Finish	125 Max	5	0	
Free of Burrs	N/A	5	0	

Total Points Earned – 95 points possible _____

Inspector: _____

Skills USA NTC Regional Competition



Student#: _____

Mill Part Rubric

Grading: Each objective has the point value to the right of the objective and each one objective is graded pass or not pass. In the event of a tie for the overall competition, the tie breaker will be the combined machining time of both the mill and the lathe projects.

Deductions: There will be a 5-point deduction for every tool that needs to be replaced.

Print Dimension	Size Limits	Points per Dim.		Comments
2.2	2.190/2.210	4	0	
5.0	4.990/5.010	4	0	
.75 (top of print)	.745/.755	4	0	
3.000	2.997/3.003	4	0	
0.200	0.197/0.203	4	0	
4.495	4.492/4.498	4	0	
.150	.147/.153	4	0	
.75 (bottom of print)	.745/.755	4	0	
2.995	2.992/2.998	4	0	
0.195 (Right)	0.192/0.198	4	0	
0.195 (Left)	0.192/0.198	4	0	
4.505	4.502/4.508	4	0	
.050	.047/.053	4	0	
3/8 Drilled Holes x 3	0.359/0.391	4	0	
.50 "X" Left Hole Loc.	.495/.505	4	0	
1.10 "Y" Left Hole Loc.	1.095/1.105	4	0	
4.25 "X" Bot. Rt. Hole Loc.	4.245/4.255	4	0	
1.60 "Y" Bot. Rt. Hole Loc.	1.595/1.605	4	0	
4.13 "X" Top Rt. Hole Loc.	4.125/4.135	4	0	
.63 "Y" Top Rt. Hole Loc.	.625/.635	4	0	
125 Surface Finish	125 Max	4	0	
Free of Burrs	N/A	4	0	
Points Earned (88possible)				
Deductions (-5 points for each tool damaged)				
Total Points Earned				

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