



CW High School

Milling Fundamentals

1. Turned Projects (8.00%)

Learning Targets

1.1 I can complete project 202 Turned parts for wood vise.

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 202 Turned parts for wood vise.
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

1.2 I can complete project 203 vise stop post – process sheet

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 203 vise stop post – process sheet
3	Developing	I can develop an organized process sheet. The sheet includes; tools, feeds, speeds, operations, and work piece setup. Some of the minor details of the setup and operations may need clarification.
2	Basic	I can develop an organized process sheet. The sheet includes some of the following; tools, feeds, speeds, operations, and work piece setup. Several minor details of the setup and operations may need clarification.
1	Minimal	I can develop a process sheet, but major pieces are missing or wrong. The part can not be machined following the sheet.
0	No Evidence	No evidence shown.

1.3 I can complete project 203 vise stop post.

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 203 vise stop post.
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet



CW High School

Milling Fundamentals

Learning Target	Descriptor	Definition
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

2. Milling Setup, Safety, knowledge, and Tool Grinding (8.00%)

Learning Targets

2.1 I can complete project 204 Milling safety test

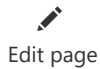
Learning Target	Descriptor	Definition
4	Proficient	I can complete project 204 Milling safety test
3	Developing	The assessment is 85% correct.
2	Basic	The assessment is 65% correct.
1	Minimal	The assessment is 50% correct.
0	No Evidence	No evidence shown.

2.2 I can complete project 204 Milling feeds and speeds.

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 204 Milling feeds and speeds.
3	Developing	The assessment is 85% correct.
2	Basic	The assessment is 65% correct.
1	Minimal	The assessment is 50% correct.
0	No Evidence	No evidence shown.

2.3 I can complete project 205 Mill setup –tram- checklist

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 205 Mill setup –tram- checklist
3	Developing	I can tram head and indicate a vise within .002"



CW High School

Milling Fundamentals

Learning Target	Descriptor	Definition
2	Basic	I can tram a head and indicate a vise within .003"
1	Minimal	I can indicate a vise, but I struggle to tram the head.
0	No Evidence	No evidence shown.

2.4 I can complete project 206 Twist drill and reamer content sheet

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 206 Twist drill and reamer content sheet
3	Developing	The assessment is 85% correct.
2	Basic	The assessment is 65% correct.
1	Minimal	The assessment is 50% correct.
0	No Evidence	No evidence shown.

2.5 I can complete project 206 Drill grinding off hand

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 206 Drill grinding off hand
3	Developing	I can grind a drill with cutting lips that are the same length and the same angle. The relief angle is a little off and the included angle is not right at 118deg, but the bit is sharp and will cut.
2	Basic	I can grind a drill but some of the angle are off. The drill may not function the best or dull quickly.
1	Minimal	I can grind a drill, but the angles are way off and the drill will not function.
0	No Evidence	No evidence shown.

3. Milling Projects (74.00%)

Learning Targets

3.1 I can complete project 207 wood vise plates - front and back

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 207 wood vise plates - front and back
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet



CW High School

Milling Fundamentals

Learning Target	Descriptor	Definition
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

3.2 I can complete project 207 wood vise plates – connecting, guide, and thread

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 207 wood vise plates – connecting, guide, and thread
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

3.3 I can complete project 207 wood vise assembly.

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 207 wood vise assembly.
3	Developing	I can assemble the part and it is and fully functional. Some parts may not be flush or there may be slight resistance in the operation.
2	Basic	I can assemble the part and it may be functional. Some parts are obviously not flush and/or there is major resistan in the operation.
1	Minimal	Some of the parts are assembled. Some parts will not assmble properly or fall apart.
0	No Evidence	No evidence shown.

3.4 I can complete project 208 Vise Stop Base.



CW High School

Milling Fundamentals

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 208 Vise Stop Base.
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

3.5 I can complete project 208 Vise Stop Clamp

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 208 Vise Stop Clamp
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

3.6 I can complete project 208 Vise Stop Assembly

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 208 Vise Stop Assembly
3	Developing	I can assemble the part and it is and fully functional. Some parts may not be flush or there may be slight resistance in the operation.
2	Basic	I can assemble the part and it may be functional. Some parts are obviously not flush and/or there is major resistan in the operation.



CW High School

Milling Fundamentals

Learning Target	Descriptor	Definition
1	Minimal	Some of the parts are assembled. Some parts will not assmble properly or fall apart.
0	No Evidence	No evidence shown.

3.7 I can complete project 209 Square Block 1 and 2

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 209 Square Block 1 and 2
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

3.8 I can complete project 210 Bench block

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 210 Bench block
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

3.9 I can complete project 211 Shaft Key seats

Learning Target	Descriptor	Definition
-----------------	------------	------------

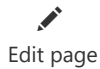


 Edit page

CW High School

Milling Fundamentals

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 211 Shaft Key seats
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.



Edit page

CW High School

Milling Fundamentals

4. Milling final project and written assessment (10.00%)

Learning Targets

4.1 I can complete project 212 Milling content assessment

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 212 Milling content assessment
3	Developing	The assessment is 85% correct.
2	Basic	The assessment is 65% correct.
1	Minimal	The assessment is 50% correct.
0	No Evidence	No evidence shown.

4.2 I can complete project 213 Milling Skills assessment

Learning Target	Descriptor	Definition
4	Proficient	I can complete project 213 Milling Skills assessment
3	Developing	The project has a minor surface finish issues or a chamfer might be slightly out of tolerance. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
2	Basic	The project does not meet print tolerances on a major dimension, but it can be reworked to meet tolerances. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
1	Minimal	The project does not meet print tolerances on a major dimension, and can not be repaired or reworked. I have correctly completed to process requirements. The part is free of burrs & bluing I have Includes a completed inspection sheet
0	No Evidence	No evidence shown.

Submitted on 7/14/2019 by Bob Morehead