













Published by

National Vocational and Technical Training Commission Government of Pakistan

Headquarter

Plot 38, Kirthar Road, Sector H-9/4, Islamabad, Pakistan www.navttc.org

Responsible

Director General Skills Standard and Curricula, National Vocational and Technical Training Commission

National Deputy Head, TVET Sector Support Programme, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Layout & design

SAP Communications

Photo Credits

TVET Sector Support Programme

URL links

Responsibility for the content of external websites linked in this publication always lies with their respective publishers. TVET Sector Support Programme expressly dissociates itself from such content.

This document has been produced with the technical assistance of the TVET Sector Support Programme, which is funded by the European Union, the Federal Republic of Germany and the Royal Norwegian Embassy and has been commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ). The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in close collaboration with the National Vocational and Technical Training Commission (NAVTTC) as well as provincial Technical Education and Vocational Training Authorities (TEVTAs), Punjab Vocational Training Council (PVTC), Qualification Awarding Bodies (QABs)s and private sector organizations.

Document Version January, 2020 Islamabad, Pakistan







Qualification	Cabinet Maker Level-4							
Competency Standard(s)	Perform Polishing							
Purpose of Assessment	Formative Assessment							
Candidate Details	Name Registration/Roll Number							
Guidance for Candidate	To meet this standard you are required to complete the following within the given time frame (for practical demonstration & assessment):							
Time: 5 hours	During a practical assessment, under observation by an assessor, you are required to A. Arrange Polishing tools & Material							
	 Identify the required tools for surface preparation. Punch the nails for surface smoothing. Fill up the cracks/minute holes with adhesive. Remove the extra adhesive. Apply sand paper for edge/surface smoothing. Perform Lacquer Polishing 							
	 Identify polishing tools & materials Adjust the spray gun for polishing. Prepare solution (sealer & thinner) to apply first coat Spray the sealer. Apply sand paper to the product. Prepare solution (lacquer & thinner) to apply first coat. Apply the required number of lacquer coats. 							
Minimum Evidence Required	 C. Perform Staining Apply sand paper to the product if required. Identify the required staining material. Prepare solution (Stain & thinner) to apply first coat to the product. Apply the required number of stain coats. Apply sand paper to the product if required. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing Identify the required shellac material. 							
	 Apply the powder coat to the product. Sand the product. Prepare solution (Shellac & Spirit) to apply first coat to the product. Apply the required number of shellac coats. Apply sand paper to the product if required. Perform Paint Finishing Identify the required paint material. Prepare solution (undercoat & thinner) to apply first coat Spray the undercoat to the product. Apply sand paper to the product. Prepare solution (paint & thinner) to apply first coat. Apply required number of paint coats 							

- 7. Apply the required number of paint coats.
- 8. Apply sand paper to the product if required.
- 9. Apply lacquer coat for final finishing of the product.

F. Perform Varnish Finishing.

- 1. Identify the required varnish material.
- 2. Select Quantity of material (Varnish/thinner) for lacquer polishing.
- 3. Prepare solution (varnish & thinner) to apply first coat
- 4. Spray varnish coat to the product.
- 5. Perform color matching if required.
- 6. Apply sand paper to the product.
- 7. Apply the required number of varnish coat.

G. Perform High Gloss Finishing

- 1. Identify the high gloss finishing material.
- 2. Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing.
- 3. Prepare solution (sealer & thinner) to apply first coat
- 4. Spray the sealer.
- 5. Match the color if required.
- 6. Apply sand paper to the product.
- 7. Prepare solution (lacquer, hardener & thinner) to apply first coat.
- 8. Apply the required number of high gloss finish coats to the product.

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Cabinet Maker Level-4
Competency Standards	Perform Polishing
Assessment Task	 Perform Surface Finishing Arrange Polishing tools & Material Perform Lacquer Polishing Perform Staining Perform Spirit/French Polishing Perform Paint Finishing Perform Varnish Finishing Perform High Gloss Finishing

l cai	n			
ı ca		 	 	

Pe	rfori	mance Criteria	Yes	No
A.		Arrange Polishing tools & Material		1
	1.	Identify the required tools for surface preparation.		
	2.	Punch the nails for surface smoothing.		
	3.	Fill up the cracks/minute holes with adhesive.		
	4.	Remove the extra adhesive.		
	5.	Apply sand paper for edge/surface smoothing.		
В.		Perform Lacquer Polishing		
	1.	Identify polishing tools & materials		
	2.	Adjust the spray gun for polishing.		
	3.	Prepare solution (sealer & thinner) to apply first coat		
	4.	Spray the sealer.		
	5.	Apply sand paper to the product.		
	6.	Prepare solution (lacquer & thinner) to apply first coat.		
	7.	Apply the required number of lacquer coats.		
C.		Perform Staining		
	1.	Apply sand paper to the product if required.		
	2.	Identify the required staining material.		
	3.	Prepare solution (Stain & thinner) to apply first coat to the product.		
	4.	Apply the required number of stain coats.		
	5.	Apply sand paper to the product if required.		
	6.	Apply lacquer coat for final finishing of the product.		
D.		Perform Spirit/French Polishing	'	•
	1.	Identify the required shellac material		

2.	Apply the powder coat to the product.	
3.	Sand the product.	
4.	Prepare solution (Shellac & Spirit) to apply first coat to the product.	
5.	Apply the required number of shellac coats.	
6.	Apply sand paper to the product if required.	
E.	Perform Paint Finishing	
1.	Identify the required paint material.	
2.	Prepare solution (undercoat & thinner) to apply first coat	
3.	Spray the undercoat to the product.	
4.	Apply sand paper to the product.	
5.	Prepare solution (paint & thinner) to apply first coat.	
6.	Apply required number of paint coats	
7.	Apply the required number of paint coats.	
8.	Apply sand paper to the product if required.	
9.	Apply lacquer coat for final finishing of the product.	
F.	Perform Varnish Finishing.	
1.	Identify the required varnish material.	
2.	Select Quantity of material (Varnish/ thinner) for lacquer polishing.	
3.	Prepare solution (varnish & thinner) to apply first coat	
	Correct transition and to the product	
4.	Spray varnish coat to the product.	
4. 5.	Perform color matching if required.	
5.	Perform color matching if required. Apply sand paper to the product.	
5. 6.	Perform color matching if required. Apply sand paper to the product.	
5. 6. 7.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat.	
5. 6. 7. G.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat. Perform High Gloss Finishing	
5. 6. 7. G.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat. Perform High Gloss Finishing Identify the high gloss finishing material. Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing.	
5. 6. 7. G. 1. 2.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat. Perform High Gloss Finishing Identify the high gloss finishing material. Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing.	
5. 6. 7. G. 1. 2.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat. Perform High Gloss Finishing Identify the high gloss finishing material. Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing. Prepare solution (sealer & thinner) to apply first coat	
5. 6. 7. G. 1. 2. 3.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat. Perform High Gloss Finishing Identify the high gloss finishing material. Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing. Prepare solution (sealer & thinner) to apply first coat Spray the sealer.	
5. 6. 7. G. 1. 2. 3. 4.	Perform color matching if required. Apply sand paper to the product. Apply the required number of varnish coat. Perform High Gloss Finishing Identify the high gloss finishing material. Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing. Prepare solution (sealer & thinner) to apply first coat Spray the sealer. Match the color if required.	

Assessors Judgment Guide

Qualification	Cabinet Maker Level-4	
Competency Standard(s)	Perform Polishing	
Candidate Details	Name:Registration/Roll Number:	
	Registration/Roll Number.	Signature.
Assessment	COMPETENT	NOT YET COMPETENT
Outcome	Name of the Assessor	Assessor's code:
	Signature:	

Assessment Summary (to be filled by the assessor)								
Activity		N	/letho	d		Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			✓					
Knowledge Assessment		√						
Other Requirement								

Observation Checklist

1. Perform Surface Finishing 2. Arrange Polishing tools & Material 3. Perform Lacquer Polishing 4. Perform Staining 5. Perform Spirit/French Polishing 6. Perform Paint Finishing 7. Perform Varnish Finishing. 8. Perform High Gloss Finishing

During the practical assessment, candidate demonstrated the following: B. Arrange Polishing tools & Material 1. Identify the required tools for surface preparation. 2. Punch the nails for surface smoothing. 3. Fill up the cracks/minute holes with adhesive. 4. Remove the extra adhesive. 5. Apply sand paper for edge/surface smoothing. C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Pollshing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply sand paper to the product if required. 24. Apply sand paper to the product if equired. 25. Identify the required number of shellac coats. 26. Prepare solution (Shellac & Spirit) to apply first coat to the product. 27. Spray the undercoat & thinner) to apply first coat 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply sand paper to the product.	<u> </u>	8. Perform High Gloss Finishing		_						
B. Arrange Polishing tools & Material 1. Identify the required tools for surface preparation. 2. Punch the nails for surface smoothing. 3. Fill up the cracks/minute holes with adhesive. 4. Remove the extra adhesive. 5. Apply sand paper for edge/surface smoothing. C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply he required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Sand the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. 25. Identify the required paint material. 26. Prepare solution (Shellac & Spirit) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply required number of paint coats.	_	Voc No Pomarks								
1. Identify the required tools for surface preparation. 2. Punch the nails for surface smoothing. 3. Fill up the cracks/minute holes with adhesive. 4. Remove the extra adhesive. 5. Apply sand paper for edge/surface smoothing. C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. Prepare solution (Stain & thinner) to apply first coat to the product. 15. Apply sand paper to the product if required. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply sand paper to the product if required. 19. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Sand the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. 25. Identify the required number of shellac coats. 26. Perporm Paint Finishing 27. Spray the undercoat & thinner) to apply first coat 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply required number of paint coats	-	lowing:								
2. Punch the nails for surface smoothing. 3. Fill up the cracks/minute holes with adhesive. 4. Remove the extra adhesive. 5. Apply sand paper for edge/surface smoothing. 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply sand paper to the product if required. 14. Identify the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply sand paper to the product if required. 24. Apply sand paper to the product. 25. Identify the required number of shellac coats. 26. Perform Paint Finishing 27. Identify the required number of shellac coats. 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat 29. Spray the undercoat to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply sand paper to the product. 31. Spray the undercoat to the product. 32. Spray the undercoat to the product. 33. Apply sand paper to the product. 34. Apply sand paper to the product. 35. Prepare solution (paint & thinner) to apply first coat. 36. Apply sand paper to the product. 37. Spray the undercoat to the product. 38. Apply sand paper to the product. 39. Prepare solution (paint & thinner) to apply first coat.		<u> </u>		_						
3. Fill up the cracks/minute holes with adhesive. 4. Remove the extra adhesive. 5. Apply sand paper for edge/surface smoothing. C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply sand paper to the product if required. 24. Apply sand paper to the product if required. 25. Identify the required number of shellac coats. 26. Perform Paint Finishing 27. Spray the undercoat & thinner) to apply first coat 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat 20. Spray the undercoat to the product. 21. Spray the undercoat to the product. 22. Spray the undercoat to the product. 23. Apply sand paper to the product. 24. Spray sand paper to the product. 25. Spray the undercoat to the product. 26. Prepare solution (undercoat & thinner) to apply first coat. 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	1.		1		4					
4. Remove the extra adhesive. 5. Apply sand paper for edge/surface smoothing. C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. 25. Identify the required shellac material. 26. Prepare solution (Shellac & Spirit) to apply first coat to the product. 27. Spray the undercoat & thinner) to apply first coat 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply required number of paint coats.	2.				_					
5. Apply sand paper for edge/surface smoothing. C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply sand paper to the product. 24. Apply sand paper to the product if required. 25. Identify the required number of shellac coats. 26. Apply sand paper to the product if required. 27. Spray the undercoat & thinner) to apply first coat 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	3.	•	<u></u>							
C. Perform Lacquer Polishing 6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply tand paper to the product if required. 18. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. The product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply required number of paint coats.	4.									
6. Identify polishing tools & materials 7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. Prepare solution (Stain & thinner) to apply first coat to the product. 15. Apply sand paper to the product if required. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply required number of paint coats					_					
7. Adjust the spray gun for polishing. 8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	C.	<u>. </u>			_					
8. Prepare solution (sealer & thinner) to apply first coat 9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (undercoat & thinner) to apply first coat. 30. Apply required number of paint coats	6.				_					
9. Spray the sealer. 10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	7.	, , , , , , , , , , , , , , , , , , , ,								
10. Apply sand paper to the product. 11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	8.	1 112	\bot		_					
11. Prepare solution (lacquer & thinner) to apply first coat. 12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	9.				_					
12. Apply the required number of lacquer coats C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	10.	1 1 1			_					
C. Perform Staining 13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	11.	, , , , , , , , , , , , , , , , , , , ,			_					
13. Apply sand paper to the product if required. 14. Identify the required staining material. 15. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	12.	Apply the required number of lacquer coats			_					
14. Identify the required staining material. Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	C.				_					
Prepare solution (Stain & thinner) to apply first coat to the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	13.			\bot						
15. the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	14.									
the product. 16. Apply the required number of stain coats. 17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	15	, , , , , , , , , , , , , , , , , , , ,								
17. Apply sand paper to the product if required. 18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats			-		4					
18. Apply lacquer coat for final finishing of the product. D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		4					
D. Perform Spirit/French Polishing 19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		4					
19. Identify the required shellac material. 20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		1 11 1 1			4					
20. Apply the powder coat to the product. 21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		<u> </u>	Τ		4					
21. Sand the product. 22. Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		· · · · · · · · · · · · · · · · · · ·	1		_					
Prepare solution (Shellac & Spirit) to apply first coat to the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats			1	1	_					
the product. 23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	21.	·	-		4					
23. Apply the required number of shellac coats. 24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	22.	, , , , , , , , , , , , , , , , , , , ,								
24. Apply sand paper to the product if required. E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		•			-					
E. Perform Paint Finishing 25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats					-					
25. Identify the required paint material. 26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		1 1 1 1 1			-					
26. Prepare solution (undercoat & thinner) to apply first coat 27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats	-	<u> </u>	T		-					
27. Spray the undercoat to the product. 28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats				+	-					
28. Apply sand paper to the product. 29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats		, , , , , ,	-		-					
29. Prepare solution (paint & thinner) to apply first coat. 30. Apply required number of paint coats				_	4					
30. Apply required number of paint coats		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4					
		, , , , ,	-		4					
					4					
31. Apply the required number of paint coats.	31.	Apply the required number of paint coats.								

32.	Apply sand paper to the product if required	l.			
33.	Apply lacquer coat for final finishing of the product.				
F.	Perform Varnish Finishing.	1	_1		
34.	Identify the required varnish material.				
35.	Select Quantity of material (Varnish/ thinne polishing.	er) for lacquer			
36.	Prepare solution (varnish & thinner) to app	oly first coat			
37.	Spray varnish coat to the product.				
38.	Perform color matching if required.				
39.	Apply sand paper to the product.				
40.	Apply the required number of varnish coat				
G.	Perform High Gloss Finishing				
41.	Identify the high gloss finishing material.				
42.	Select the Quantity of materials (hardener/sealer/ lacquer/ thinner) for lacquer polishing.				
43.	Prepare solution (sealer & thinner) to apply first coat				
44.	Spray the sealer.				
45.	Match the color if required.				
46.	Apply sand paper to the product.				
47.	Prepare solution (lacquer, hardener & thinner) to apply first coat.				
48. Apply the required number of high gloss finish coats to the product.					
Compe	etent	Not Yet Competent			

Knowledge Assessment

Qualification	Cabinet Maker Level-4	
Competency Standard(s)	Perform Polishing	
Candidate Details	Name:	Candidate Signature:
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT Assessor's code:

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

	stions (Candidate confidently answered questions correctly and demonstrated rstanding of the topics and their application)	Satisfactory	Not Satisfactory
1.	Name any three polishing tools		
2.	Name polishing materials		
3.	What is Nail punching?		
4.	How to prepare filling materials?		
5.	What is a spray gun?		
6.	What is staining?		
7.			

Feedback to the Candidate				
Candidate's Signature		_ Assessor's Signature		





Qualification	Cabinet Maker Level-4
Competency Standard(s)	Maintain Machines
Purpose of Assessment	Formative Assessment

Candidate Details	Name
	Registration/Roll Number
	To meet this standard you are required to complete the following within the given time frame (for practical demonstration & assessment):
Guidance for	Replace Machine Belts/chains
Candidate	Perform Sharpening of Cutting Blades
Carraraace	Perform Lubrication of machine parts.
	4. Replace Drilling/ boring bits
	5. Replace Profile Cutters
_	During a practical assessment, under observation by an assessor, you are required to
Time: 4 Hours	
	Disconnect power supply of machine.
	Remove the safety covers
	3. Unmount the belt/chain
	4. Replace the belt/chain as per specification.
	5. Adjust tension of the belt/chain.
	6. Connect the Power supply.
	7. Carry out test run of the machine.
	Mount the Safety covers.
	Check condition of the cutting blade
	10. Lock the spindle.
	11. Remove the blade.
	12. Remove the flanges
Minimum	13. Replace the blade.
Evidence	14. Unlock the spindle.
Required	15. Adjust tension of the blade if required.
•	16. Connect the Power supply.
	17. Carry out test run of the machine.
	18. Identify the lubricating tools & material.
	19. Perform lubrication of the machine parts.
	20. Identify types of drilling/boring bits
	21. Replace the faulty drilling/boring bit.
	22. Identify the profiling cutter.
	23. Lock the spindle.
	24. Remove the profile cutters
	25. Remount the desired profile in the cutter head.
	26. Unlock the Spindle.
	27. Carry out test run.

Self-Assessment Checklist

Candidate Name			
Registration No.			
Qualification	Cabinet Maker Level-4		
Competency Standards	Maintain Machines		
	Replace Machine Belts/chains		
	Perform Sharpening of Cutting Blades		
Assessment Task	Perform Lubrication of machine parts.		
	4. Replace Drilling/ boring bits		
	5. Replace Profile Cutters		

I can.....

Performance Criteria			No
1.	Disconnect power supply of machine.		
2.	Remove the safety covers		
3.	Unmount the belt/chain		
4.	Replace the belt/chain as per specification.		
5.	Adjust tension of the belt/chain.		
6.	Connect the Power supply.		
7.	Carry out test run of the machine.		
8.	Mount the Safety covers.		
9.	Check condition of the cutting blade		
10.	Lock the spindle.		
11.	Remove the blade.		
12.	Remove the flanges		
13.	Replace the blade.		
14.	Unlock the spindle.		
15.	Adjust tension of the blade if required.		
16.	6. Connect the Power supply.		
17.	7. Carry out test run of the machine.		
18.	Identify the lubricating tools & material.		
19.	Perform lubrication of the machine parts.		
20.	Identify types of drilling/boring bits		
21.	Replace the faulty drilling/boring bit.		
22.	Identify the profiling cutter.		
23.	Lock the spindle.		
24.	Remove the profile cutters		
25.	Remount the desired profile in the cutter head.		
26.	Unlock the Spindle.		
27.	Carry out test run.		

Candidate's Signature	Assessor's Signature		
Date:			

Assessors Judgment Guide

Qualification	Cabinet Maker Level-4	
Competency Standard(s)	Maintain Machines	
Candidate Details	Name:	
	Registration/Roll Number:	Signature:
Assessment	COMPETENT	NOT YET COMPETENT
Outcome	Name of the Assessor	Assessor's code:
	Signature:	

Assessment Summary (to be filled by the assessor)							
Activity		Method				Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		√				_	
Other Requirement							

Observation Checklist

1. Replace Machine Belts/chains 2. Perform Sharpening of Cutting Blades 3. Perform Lubrication of machine parts. **Assessment Task** 4. Replace Drilling/boring bits 5. Replace Profile Cutters During the practical assessment, candidate demonstrated the Yes No **Remarks** following: 1. Disconnect power supply of machine. Remove the safety covers 2. 3. Unmount the belt/chain 4. Replace the belt/chain as per specification. 5. Adjust tension of the belt/chain. 6. Connect the Power supply. Carry out test run of the machine. 7. Mount the Safety covers. 8. Check condition of the cutting blade 10. Lock the spindle. Remove the blade. 11. 12. Remove the flanges 13. Replace the blade. 14. Unlock the spindle. Adjust tension of the blade if required. 15. Connect the Power supply. 16. 17. Carry out test run of the machine. Identify the lubricating tools & material. 18. Perform lubrication of the machine parts. 19. Identify types of drilling/boring bits 20. 21. Replace the faulty drilling/boring bit. 22. Identify the profiling cutter. Lock the spindle. 23. 24. Remove the profile cutters 25. Remount the desired profile in the cutter head.

Not Yet Competent

26.

27. Car

Unlock the Spindle.

Carry out test run

Knowledge Assessment

Qualification	Cabinet Maker Level-4	
Competency Standard(s)	Maintain Machines	
Candidate Details	Name:	
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT Assessor's code:
	is not required to be identical, but simila	r concepts and/or keywords must be used. Oral questioning may lication.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application) Satisfactory **Not Satisfactory** Differentiate between belt and chain 2. **Describe Belt Specifications** Describe chain Specifications What is lubrication? 5. What is the importance jigs & fixture 6. 7. 8. 9. 10.

Feedback to the Candidate		
Candidate's Signature Assessor's Signature		





Qualification	Cabinet Maker Level-4
Competency Standard(s)	Perform CAD/CAM Operations
Purpose of Assessment	Formative Assessment

Candidate	Name				
Details	Registration/Roll Number				
	To meet this standard you are required to complete the following within the given time frame (for practical demonstration & assessment):				
Guidance for Candidate	 Interpret Drawing & Design using CAD Draw & Design the job using CAD Load the desired Tools Perform Simulation Perform Material Loading Perform CAM Operations 				
Time: 4 hours	During a practical assessment, under observation by an assessor, you are required to				
Minimum Evidence Required	 Collect the desired drawing & design Consult catalogue as per client demand Set Interface in CAD software Make Multiview drawing & design of the job Make 3D drawing & design of the job/ part Render the job as per client's demand Plot/ print the job Identify the required tools as per process Select the tools in the CAD/CAM software Load the tools in CAD/CAM software Convert CAD to CAM codes using the software Run Simulation to check accuracy of process Identify required parts of the job Set the clamping/ vacuum sucking units as per parts of the job Load the job on the machine bed Ensure the loading of desired tools/ bits in ATC. Execute the machine to complete the process Take out the completed part 				

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Cabinet Maker Level-4
Competency	Parform CAD/CAM Operations
Standards	Perform CAD/CAM Operations
	Interpret Drawing & Design using CAD
	2. Draw & Design the job using CAD
	3. Load the desired Tools
Assessment Task	Perform Simulation
	5. Perform Material Loading
	6. Perform CAM Operations

ca	n								

Performance Criteria	Yes	No
Collect the desired drawing & design		
2. Consult catalogue as per client demand		
3. Set Interface in CAD software		
4. Make Multiview drawing & design of the job		
5. Make 3D drawing & design of the job/ part		
6. Render the job as per client's demand		
7. Plot/ print the job		
8. Identify the required tools as per process		
Select the tools in the CAD/CAM software		
10. Load the tools in CAD/CAM software		
11. Convert CAD to CAM codes using the software		
12. Run Simulation to check accuracy of process		
13. Identify required parts of the job		
14. Set the clamping/ vacuum sucking units as per parts of the jo	ob	
15. Load the job on the machine bed		
16. Ensure the loading of desired tools/ bits in ATC.		
17. Execute the machine to complete the process		
18. Take out the completed part		

Candidate's Signature	_ Assessor's
Signature	
Date:	_

Assessors Judgment Guide

Qualification	Cabinet Maker Level-4	
Competency Standard(s)	Perform CAD/CAM Operations	
Candidate Details	Name: Registration/Roll Number:	
Accocamont	COMPETENT	NOT YET COMPETENT
Assessment Outcome	Name of the Assessor	Assessor's code:
	Signature:	

Assessment Summary (to be filled by the assessor)									
Activity		Method				Result			
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent		
Practical Skill Demonstration			✓						
Knowledge Assessment		√					_		
Other Requirement									

Observation Checklist

Asses	ssment Task	1. 2. 3. 4. 5.	Draw & Design the Load the desired Perform Simulatio	e job using C Tools n ∟oading	•)	
During follow		_	candidate demonstr		Yes	No	Remarks
1.	Collect the de	sired dr	rawing & design				
2.	Consult catalo	ogue as	per client deman	d			-
3.	Set Interface	in CAD	software				
4.	Make Multivie	w draw	ing & design of th	e job			
5.	Make 3D drav	wing & c	design of the job/	part			
6.	Render the jo	b as pe	r client's demand				-
7.	Plot/ print the	job					-
8.	Identify the re	quired t	tools as per proce	SS			-
9.	Select the too	ols in the	e CAD/CAM softw	are			
10.	Load the tools	ools in CAD/CAM software					
11.	Convert CAD	Convert CAD to CAM codes using the software		software			
12.	Run Simulation	on to ch	eck accuracy of p	rocess			
13.	Identify requir	ed parts	s of the job				
14.	Set the clamp parts of the jo	_	cuum sucking unit	s as per			
15.	Load the job	on the n	nachine bed				
16.	Ensure the lo	ading of desired tools/ bits in ATC.					
17.	Execute the n	nachine	to complete the p	orocess			
18.	Take out the	complet	ted part				
Comp	etent			Not Yet Com	petent		

Knowledge Assessment

Qualification	Cabinet Maker Level-4	
Competency Standard(s)	Perform CAD/CAM Oper	rations
Candidate Details	Name:	
Assessment Outcome	COMPETENT	NOT YET COMPETENT Assessor's code:
		ar concepts and/or keywords must be used. Oral questioning may

	stions (Candidate confidently answered questions correctly and demonstrated restanding of the topics and their application)	Satisfactory	Not Satisfactory
1.	What is CAD Software?		
2.	What is CAM Software?		
3.	Name various CAM operations		
4.	What is vacuum system?		
5.	Describe the automatic tool changer		
6.			
7.			
8.			
9.			
10.			

Feedback to the Candidate					
Candidate's Signature	As	sessor's Signature			



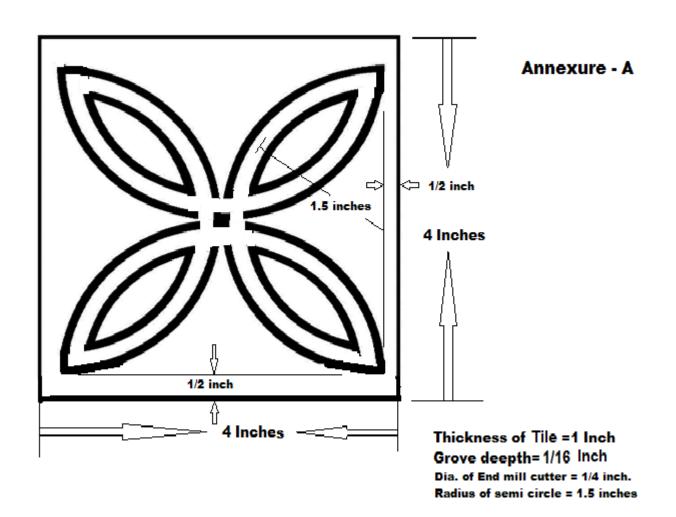


Qualification	Cabinet Maker (Level-4)
Competency Standard(s)	Perform Polishing Maintain Machines Perform CAD/CAM Operations
Purpose of Assessment	Summative Assessment

Candidate Details	NameRegistration/Roll Number							
Guidance for Candidate	To meet this standard, you are required to complete the following within Two hours' time frame (for practical demonstration & assessment): Make a cabinet door with wooden tiles/panel of (4 x 4 x 1 inches) from given workpiece, develop a design on it (as given in Annexure-A) and polish it to highlight the design.							
Time: 2 Hours	During a practical assessment, under observation by an assessor, you are required to							
Minimum Evidence Required	Make a cabinet door with wooden tiles/panel of (4 x 4 x 1 inches) from given workpiece, develop a design on it (as given in Annexure-A) and polish it to highlight the design. Cut the given piece of wood and make a tile of (4 X 4 X 1 inches). Scan given design (picture) in computer. Set dimensions of (4 X 4 X 1 inches) Make a vector file of given design (picture) Make G-code of vector file of given design (picture) Verify G-code in simulator and make changes as desired Upload G-Code to CNC machine Place the wooden tile in CNC Run CNC and make design on wooden tile. Stop the CNC and take out the wooden tile. Clean wooden tile.							
	Apply polish on wooden tile to highlight design.							
	Fix wooden tile in cabinet door.							
	Apply final polish on cabinet door to highlight design.							







Self-Assessment Checklist

Candidate Name			
Registration No.			
Qualification	Cabinet Maker (Level-4)		
Competency Standards	Perform Polishing Maintain Machines Perform CAD/CAM Operations		
Assessment Task	Make a wooden tile of (4 x 4 x 1 inches) from given design on it (as given in Annexure-A) and polish it to		
can			
Performance Crite	ria	Yes	No
1. Cut the giver	piece of wood and make a tile of (4 X 4 X 1 inches).		
2. Scan given d	esign (picture) in computer.		
3. Set dimension	ns of (4 X 4 X 1 inches)		
4. Make a vecto	or file of given design (picture)		
5. Make G-code	e of vector file of given design (picture)		
6. Verify G-code	e in simulator and make changes as desired		
7. Upload G-Co	de to CNC machine		
8. Place the wo	oden tile in CNC		
9. Run CNC an	d make design on wooden tile.		
10. Stop the CN0	and take out the wooden tile.		
11. Clean the wo	oden tile.		
12. Apply polish	on it to highlight design.		
13. Fix wooden t	lle in cabinet door		
14 Apply final pa	olish on cabinet door to highlight design.		

Candidate's Signature	Assessor's
Signature	
Date:	

Assessors Judgment Guide

Qualification	Cabinet Maker (Level-	4)			
Competency Standard(s)	 Perform Polishing Maintain Machines Perform CAD/CAM Operations 				
Candidate Details	Name:Registration/Roll Number:				
Assessment Outcome	COMPETENT Name of the Assessor	NOT YET COMPETENT Assessor's code:			
	Signature:				

Assessment Summary (to be filled by the assessor)							
Activity	Method		Result				
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

Observation Checklist

Assessment Task Make a cabinet door with wooden tiles/panel of (4 x 4 x 1 inches) from given workpiece, develop a design on it (as given in Annexure-A) and polish it to highlight the design.						
During the practical assessment, candidate demonstrated the following:				Yes	No	Remarks
1.	Cut the given X 1 inches).	piece of wood and make	a tile of (4 X 4			
2.	Scan given de	esign (picture) in compute	er.			
3.	Set dimension	ns of (4 X 4 X 1 inches)				
4.	Make a vector	r file of given design (pict	ure)			
5.	Make G-code	of vector file of given des	sign (picture)			
6.	Verify G-code in simulator and make changes as desired					
7.	Upload G-Code to CNC machine					
8.	Place the woo	oden tile in CNC				
9.	Run CNC and make design on wooden tile.					
10.	Stop the CNC	and take out the wooder				
11.	Clean the wooden tile.					
12.	Apply polish on it to highlight design.					
13.	Fix wooden tile in cabinet door					
14.	Apply final polish on cabinet door to highlight design.					
Compe	etent 🔲		Not Yet Competent	: []	

Knowledge Assessment

Qua	alification	Cabinet Maker (Level-4)				
Con	npetency	Perform Polishing				
	ndard(s)	2. Maintain Machines				
Stai	ilaala(3)	Perform CAD/CAM Operations				
Can	didate	Name:				
	ails	Trumes.				
Det	alis	Registration/Roll Number: Candid	late Signature:			
٨٠٠		COMPETENT L NOT YET CO	MPETENT L			
	essment tcome	Name of the Assessor: As	sessor's code:			
Out	come	Name of the Assessor.	303301 3 Code			
		Signature of the Assessor:				
	•	is not required to be identical, but similar concepts and/or keyword	ords must be used. O	ral questioning may		
be us	sed to clarify can	didate understanding of topic and its application.				
Que	stions (Candidat	te confidently answered questions correctly and demonstrated	Satisfactory	Not Satisfactory		
		topics and their application)		-		
1.	What is tile?					
2.	What is scan?					
3.	What is G-cod	de?				
4.	What is vecto	r file?				
5. Define polishing.		ng.				
6. What CAD st		and for?				
7.	What CAM sta	and for?				

Feedback to the Candidate				
Candidate's Signature	Assessor's Signature			

National Vocational and Technical Training Commission (NAVTTC)

- 🙎 Plot 38, Kirthar Road, Sector H-9/4, Islamabad, Pakistan
- **\$\\$** +92 51 9044 322
- info@navttc.org
- www.navttc.org