



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL CERTIFICATE

**IN
WOOD TECHNOLOGY
(MACHINING AND MANUFACTURING)**

MODULE: Product Finishing

PAPER NO: 370/22/M05

DURATION: 3 Hours

NOVEMBER/DECEMBER 2025 EXAMINATION

REQUIREMENTS

1. Answer booklet.
2. Drawing paper.

INSTRUCTIONS TO CANDIDATE

1. Answer all questions.
2. Draw neat diagrams and label.

QUESTION 1

- a) Define the term finishing. (3 marks)
- b) Explain any five (5) reasons for applying finishes on artefacts. (5 marks)
- c) State two (2) finishes that are:
 - i) Water based (2 marks)
 - ii) Oil based (2 marks)
- d) Describe the full cell method of applying finishes. (8 marks)

QUESTION 2

- a) Explain the importance of the following equipment when applying finishes:
 - i) Respirator
 - ii) Eye shield
 - iii) Overalls
 - iv) Ear muffs (8 marks)
- b) When would the wood machinist use the following machines when sanding.
 - i) Bobbin sander
 - ii) Belt sander
 - iii) Drum sander
 - iv) Orbital sander
 - v) Palm sander (6 marks)
- c) Name three (3) materials that can be used grit for abrasive materials. (3 marks)
- d) Explain the term "Backing" in relation to abrasive materials. (3 marks)

QUESTION 3

- a) Explain the term moulding. (2 marks)
- b) Illustrate the following mouldings:
- i) Cavetto (5 marks)
 - ii) Ovolo (5 marks)
 - iii) Cyma reversa (5 marks)
- c) Explain where one would apply the above mouldings. (3 marks)

QUESTION 4

- a) Identify any four (4) tools that can be used when finishing joinery items. (4 marks)
- b) Write the use of each item identified above. (4 marks)
- c) Explain in brief about transparent finishes and opaque finishes. (4 marks)
- d) Name two types of
- i) Opaque finishes (2 marks)
 - ii) Transparent finishes. (2 marks)
- e) Describe two advantages of transparent finishes and two advantages of opaque finishes. (4 marks)

QUESTION 5

- a) After producing an artefact, state when the following abrasive materials are used:
- i) Garnet
 - ii) Aluminium
 - iii) Silicon carbide (3 marks)
- b) Describe the proper sequence of finishing a hardwood article. (5 marks)

- c) Explain why timber needs to be protected against preservatives against
- i) Fungi (4 marks)
 - ii) Wood boring insects (4 marks)
 - iii) Elements of weather and moisture content. (4 marks)

.../dk