

Paper Code: M-EPA-ST3004

Level
3

Spectacle Technician EPA Mock Multiple-choice Test

Information for registered centres

The seal on this examination paper must only be broken by the candidate at the time of the examination.
Under no circumstances should a candidate use an unsealed examination paper.

Information for candidates

Under no circumstances should you, the candidate, use an unsealed examination paper.

This examination consists of **45 multiple-choice** questions.

The exam is worth **45 marks**, with a Pass being **26 marks**, and Distinction **36 marks**.

The duration of this examination is **75 minutes**.

You are **NOT** allowed any assistance to complete the answers.

You must use a pencil to complete the answer sheet - pens must **NOT** be used.

When completed, please leave the **examination answer sheet (EAS)** on the desk.

EXAMINATION ANSWER SHEET (EAS) INSTRUCTIONS:

For each question, fill in **ONE** answer **ONLY**.

If you make a mistake, ensure you erase it thoroughly.

You must mark your choice of answer by shading in **ONE** answer circle only.

Please mark each choice like this:

01 ☐ A ☐ B ☐ C ☒ **ANSWER COMPLETED CORRECTLY**

Examples of how **NOT** to mark your examination answer sheet (EAS). These will not be recorded.

01 ☐ A ☐ B ☐ C ☐ **DO NOT** partially shade the answer circle
ANSWER COMPLETED INCORRECTLY

01 ☐ A ☐ B ☒ ☒ **DO NOT** use ticks or crosses
ANSWER COMPLETED INCORRECTLY

01 ☐ A ☐ B ☐ C ☐ **DO NOT** use circles
ANSWER COMPLETED INCORRECTLY

01 ☐ A ☐ B ☒ ☒ **DO NOT** shade over more than one answer circle
ANSWER COMPLETED INCORRECTLY

All candidates **MUST** sign the Examination Answer Sheet (EAS) in the bottom right-hand corner of the page before leaving the examination room.

1

How does digitalisation and automation benefit optical manufacturing?

- A. It eliminates maintenance and increases efficiency
- B. It eliminates the need for a quality control process
- C. It reduces human error and increases accuracy
- D. It reduces the need for a skilled workforce

2

Which of the following is an appropriate action for a technician to take if the engravings on a varifocal are too prominent?

- A. Apply a thicker coating to mask the marks
- B. Polish the lens until they are removed
- C. Reorder the lenses from the supplier
- D. Try to cut the lens so they are out of the way

3

In the 5S methodology, what does the 'shine' step focus on?

- A. Cleaning the workplace to maintain a tidy environment
- B. Developing new processes to increase production speed
- C. Establishing consistent procedures and practices
- D. Performing regular audits within the lab against standards

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During the quality control process, how many checks are typically performed to ensure that spectacles meet British Standard tolerances?

- A. 4
- B. 8
- C. 12
- D. 16

5

What is the **main** goal of lean methodology?

- A. To focus on speed of production over quality
- B. To implement strict management controls
- C. To reduce staff and costs for the business
- D. To reduce waste and increase efficiency

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When safety glasses need repairing, technicians **must**:

- A. reorder another pair of safety glasses
- B. repair them themselves following standard procedures
- C. send them to a recognised safety glasses manufacturer
- D. tell the customer they cannot be repaired

7

During the quality control process, a technician checks a lens and notices that the axis is off by 4 degrees. What must they do **first**?

- A. Clean the lens material for accuracy
- B. Recalibrate the entire machine
- C. Reorder the lens as it will need to be remade
- D. Verify if it falls within tolerance on the chart

8

Which automated tool is used during the quality control phase to improve accuracy and speed?

- A. Blocker
- B. Edger
- C. Focimeter
- D. Ruler

9

Which of the following lens types do technicians typically find markings on?

- A. Bifocal lenses
- B. High-index lenses
- C. Progressive lenses
- D. Single-vision lenses

10

Which lens material is commonly used in safety eyewear?

- A. Acrylic
- B. High-index plastic
- C. Optyl
- D. Polycarbonate

11

What personal protective equipment (PPE) **must** a technician wear when using a hand edger to edge a lens?

- A. Disposable gloves
- B. Face mask
- C. Safety boots
- D. Safety eyewear

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What type of lens is recommended for a myopic patient?

- A. Bifocal lens
- B. Concave lens
- C. Convex lens
- D. Progressive lens

13

Why is it **key** to record order errors?

- A. To create reports about materials for suppliers
- B. To identify the person responsible and discipline them
- C. To maintain a thorough history of customer complaints
- D. To recognise patterns and improve processes

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Which of the following is typically associated with automation and digitalisation?

- A. Decreased customer satisfaction
- B. Increased job productivity
- C. Lowered operational efficiency
- D. Reduced machinery costs

15

Which of the following is an impact of incorrect lens markings?

- A. Decreased customer complaints
- B. Decreased manufacturing costs
- C. Reduced durability of the frame
- D. Reduced prescription accuracy

16

What lens is typically used to treat double vision?

- A. Aspheric lens
- B. Convex lens
- C. Executive bifocal lens
- D. Prism lens

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What is the correct procedure for reporting an accident or emergency?

- A. Report the accident to the appropriate authority immediately and complete an accident report form
- B. Report the accident verbally to the correct individual without documenting it unless serious injury occurred
- C. Report the incident by writing down the details on paper and telling a colleague when possible
- D. Report the incident to the appropriate authority at the end of the shift to avoid disrupting work

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Continuous improvement techniques within an optical lab aim to:

- A. increase productivity by reducing inefficiencies over time
- B. maintain current ways of working without making changes
- C. prioritise production speed over the quality of products
- D. reduce the amount of staff needed within the workplace

19

Why are optical engravings necessary on safety spectacle lenses?

- A. To enhance the aesthetic appeal of the lenses
- B. To identify the lens material and manufacturer
- C. To indicate the colour and grade of a tint on the lenses
- D. To provide the customers with information about lens care

20

What is the **main** reason quality control processes must be followed?

- A. To ensure the products meet the required specifications
- B. To identify employee areas of weakness for training
- C. To increase the speed of production to meet targets
- D. To reduce the amount of checks needed on the final product

21

How does automation enhance the lens ordering process?

- A. It impacts communication by allowing customers to choose their order preferences
- B. It improves the quality of the lenses by automatically ordering the most durable option
- C. It reduces the cost of lenses by gaining a discount from suppliers when ordering
- D. It speeds up the process by automatically working out the best lens size to order

22

What does the iris do?

- A. Adjusts the shape of the cornea in the eye
- B. Controls how much light enters the eye
- C. Produces tears to keep the eye wet
- D. Refracts light away from the eye

23

A bottle of water is spilled onto the lab floor. What is the **first** action that must be taken?

- A. Call a colleague to deal with the issue
- B. Leave it to dry off naturally
- C. Place a wet floor sign next to the spillage
- D. Shout to warn staff members

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What is the purpose of BS EN ISO 16321 (replacement for BS EN 166) markings on safety spectacles?

- A. To confirm that the spectacles meet the safety standard for eye protection
- B. To demonstrate that the spectacles match the patient's prescription
- C. To identify the manufacturer's warranty on the safety spectacles
- D. To show what store the customer purchased the spectacles from

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What is the **main** purpose of Fresnel prisms?

- A. To increase durability
- B. To provide ultraviolet (UV) protection
- C. To reduce the thickness of the lens
- D. To remove reflections

26

What does the 'set' step in the 5S methodology involve?

- A. Creating quality control processes for staff to follow
- B. Ensuring that all staff members are appropriately trained
- C. Establishing a maintenance routine for equipment
- D. Making sure that items in the lab are in the optimal place

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What **must** a spectacle technician do upon discovering an order omission?

- A. Amend it immediately without further investigation
- B. Conceal it to avoid negative customer feedback
- C. Document it for quality control purposes
- D. Seek permission from a manager before taking any action

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What does the UKCA marking on a frame or lens indicate?

- A. It is designed for UK use
- B. It is exported from the UK
- C. It is manufactured in the UK
- D. It meets the UK standards

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In the event of a fire alarm, what is the appropriate action to take?

- A. Ask a manager for permission before proceeding with evacuation
- B. Continue working until another member of staff confirms there is a fire
- C. Evacuate the building immediately and go to the fire assembly point
- D. Quickly gather all personal belongings and leave the building

30

What type of coating is typically used on mirror tints?

- A. Anti-fog
- B. Photochromic
- C. Polarised
- D. Reflective

31

The hole which allows light to enter the eye is referred to as the:

- A. cornea
- B. pupil
- C. retina
- D. sclera

32

A lens order shows the right lens to be bifocal and the left lens to be varifocal. What action **must** the technician take?

- A. Order both lenses as bifocal
- B. Reorder the job immediately
- C. Speak to the dispenser to confirm the order
- D. Substitute the right lens for a varifocal lens

33

What action is appropriate when a spectacle technician discovers job trays have developed sharp edges after being dropped?

- A. Continue to use them
- B. Dispose of them safely
- C. File down the corners to make them flat
- D. Keep them in the lab for emergency use

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What task is typically conducted by automated equipment in the glazing process?

- A. Adjusting frames to the correct fit
- B. Completing quality checks
- C. Cutting lenses to the required size
- D. Producing customised tints

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Which of the following is a **key** feature of sports eyewear in comparison to regular spectacles?

- A. They are created to provide increased protection
- B. They are designed primarily for style over function
- C. They do not require any protective coatings
- D. They use heavier frames to ensure durability

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Which of the following is **not** included in the 5S methodology?

- A. Show
- B. Sort
- C. Standardise
- D. Sustain

37

Which of the following defects is described as a loss of elasticity in the lens of the eye, usually due to age?

- A. Astigmatism
- B. Hypermetropia
- C. Myopia
- D. Presbyopia

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After using the eye wash station, technicians **must**:

- A. report the incident only if they are in pain after washing their eyes
- B. speak with their manager to report the incident and seek a medical evaluation
- C. talk to a colleague about the incident and go home for the remainder of the day
- D. wash their hands thoroughly and proceed with their normal work

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Which of the following cases is suitable for a pair of rimless glasses?

- A. A green pouch
- B. A hard case
- C. A polythene pocket
- D. A soft case

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It is midway through the day and a technician realises that they forgot to calibrate the blocker when setting up. What would a consequence of this be?

- A. The edger will begin to malfunction
- B. The equipment will need to be repaired
- C. The glazing time will be decreased
- D. The lenses will have been cut to the wrong shape

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While performing the final checks, a technician notices that a number of jobs have large discrepancies between the reading on the focimeter and the expected prescription. Which of the following is an appropriate action to take?

- A. Contact the manufacturer to recalibrate the focimeter
- B. Continue to use the focimeter, assuming the values are correct
- C. Move on to another job and leave a colleague to fix the focimeter
- D. Use the focimeter and manually adjust the measurements

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A technician notices that the tint bath is producing inconsistent results, including uneven colouring. What is the **first** action to take?

- A. Continue to use the tint bath and adjust the final product manually
- B. Request that a new tint bath is ordered immediately as it is faulty
- C. Thoroughly clean out the tint and replace it before using it again
- D. Turn the tint bath off and do not use it until the following day

43

After finishing the edging process, the technician observes that multiple lenses have excess residue on them. What course of action **must** be taken to resolve this issue?

- A. Change the socks and clear out the filtration system
- B. Inform a manager and carry on with another task
- C. Manually clean each lens and continue to glaze
- D. Shut down the machine and call an engineer

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A technician notices that the edger is not performing as usual and has started to cut the lenses too big. What does the technician need to do **first** to rectify the issue?

- A. Adjust the machine's internal settings manually until the problem stops occurring
- B. Advise their manager that a new edger is needed as the current machine is not working
- C. Continue to use the edger as usual, then use the hand edger to reduce the lens size
- D. Inform their manager that a calibration may be required, then contact the manufacturer

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While doing a routine check on the blocker, the technician realises that the lenses are consistently being cut to the wrong axis. What is the typical cause?

- A. The incorrect blocking pad has been used on the blocker
- B. The prescription and size of the lenses
- C. The quality and material of the lenses
- D. The wrong vision type has been selected on the blocker

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