

Paper Code: M-EPA-ST3002

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 ☒ D **ANSWER COMPLETED CORRECTLY**

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

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

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

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

01 ☐ A ☐ B ☐ C ☐ D **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

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 size settings manually until the problem is resolved
- 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. Perform a calibration following the guidance set by the manufacturer

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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

5

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

6

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

7

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

8

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

9

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

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

10

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

11

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

12

Which lens material is commonly used in safety eyewear?

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

13

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

14

What type of lens is recommended for a myopic patient?

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

15

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

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

16

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

- A. Decreased customer satisfaction
- B. Increased job displacement
- C. Lowered operational efficiency
- D. Slower production times

17

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

18

What lens is typically used to treat double vision?

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

19

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

20

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

21

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

22

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. Continue to use the focimeter, assuming the values are correct
- B. Move onto another job and hope that a colleague fixes the focimeter
- C. Recalibrate the focimeter according to the manufacturer's procedures
- D. Use the focimeter and manually adjust the measurements

23

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

24

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

25

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

26

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

27

A technician is calibrating a focimeter. They want to ensure the prescription readings meet the Medical Devices Directive (MDD) guidance. To do this, they can:

- A. adjust the prescription settings manually to 0.25
- B. ask the manufacturer to check that the settings are accurate
- C. clean the internal parts of the machine thoroughly
- D. use a dummy/stock lens of power to check it is reading correctly

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What is the purpose of 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 the place of purchase and retail price of the spectacles

29

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

30

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

31

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

32

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

33

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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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

35

What type of coating is typically used on mirror tints?

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

36

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

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

37

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

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A stack of job trays falls, leaving a number of trays with sharp edges. These should be:

- A. disposed of safely
- B. filed down to make the edges smoother
- C. kept in the lab for emergency use
- D. used as normal

39

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

40

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

42

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

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

43

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

- A. report the incident only if they are in pain following 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 dispatch after completing a pair of rimless glasses?

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

45

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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