

Paper Code: M-EPA-ST3003**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

Which of the following is associated with automation and digitalisation in optical manufacturing?

- A. Decreased efficiency and productivity
- B. Higher rates of defective products
- C. Improved consistency and accuracy
- D. Reduced machinery maintenance costs

2

What is the **main** purpose of varifocal engravings on lenses?

- A. To enhance visual aesthetics
- B. To improve frame durability
- C. To recognise the manufacturer
- D. To support the glazing process

3

Which anatomical structure sends visual information to the brain?

- A. Lens
- B. Optic nerve
- C. Sclera
- D. Vitreous humour

4

Hazards in the workplace **must** be reported to the:

- A. health and safety officer
- B. human resources department
- C. local authority
- D. nearest hospital

5

What is the **main** purpose of safety eyewear?

- A. Correcting refractive errors
- B. Enhancing vision clarity and performance
- C. Protecting against hazardous materials
- D. Reducing eye strain and fatigue

6

Which step of the 5S methodology focuses on arranging the lab for optimal efficiency?

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

7

How many points are typically checked during the quality process to ensure spectacles meet British Standard tolerances?

- A. 3
- B. 6
- C. 9
- D. 12

8

What information would be marked on a varifocal lens?

- A. Cylindrical power
- B. Grade of tint
- C. Reading addition
- D. Sphere power

9

What is the medical term for short-sightedness?

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

10

In the event of a fire alarm, technicians **must**:

- A. gather their equipment before evacuating
- B. get confirmation that there is a fire before evacuating
- C. leave the lab and head to the meeting point
- D. wait for the fire warden before leaving

11

Fresnel prisms are used to:

- A. block harmful blue light
- B. correct double vision
- C. improve contrast sensitivity
- D. protect the eyes from debris

12

Which of the following describes the cause of presbyopia?

- A. Consuming too much sugar leading to retinal damage
- B. Excessive exposure to blue light from electronic devices
- C. Genetic mutations affecting the shape of the cornea
- D. The loss of flexibility in the lens of the eye due to aging

13

What is the **main** role of an automated focimeter in the ordering process?

- A. Checking prescriptions
- B. Finalising orders
- C. Remaking spectacles
- D. Updating stock levels

14

An order is **first** checked for errors when:

- A. it is completed
- B. it is placed
- C. the lenses are blocked
- D. the lenses are glazed

15

To follow legal requirements technicians **must not**:

- A. apply UV protection to a tinted lens
- B. fix a broken pair of rimless spectacles
- C. repair a broken pair of safety spectacles
- D. tint lenses darker than 82% absorption

16

According to the Medical Device Directive (MDD), frames are identified using the:

- A. manufacturer logo and branding
- B. material composition and markings
- C. serial number and batch code
- D. SKU number and UKCE marks

17

Which method would be **most** effective for continuously improving a technician's skills and knowledge within the lab?

- A. Independently researching new techniques and skills
- B. Occasional, one-time training sessions
- C. Relying solely on on-the-job experience
- D. Structured training programmes with regular workshops

18

Which refractive error is corrected by the cylinder?

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

19

If lens engravings are too prominent, the technician will need to:

- A. apply a thicker anti-reflective coating to mask the engravings
- B. continue with the order and hope the engravings cut out
- C. refer the lenses to a supervisor for further assessment
- D. return the lenses to the supplier or manufacturer for credit

20

What is a **key** feature of digitalisation in the lens ordering process?

- A. Automatic determination of the optimal lens size
- B. Decreased product availability
- C. Elimination of personalised lens recommendations
- D. Enhanced customer interaction

21

Which of the following refractive errors would be corrected by a plus powered lens?

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

22

Which of the following is an example of a near miss in an optical lab?

- A. A technician getting a chemical splashed in their eye when cleaning
- B. A technician handling a lens incorrectly and cutting their hand
- C. A technician knocking over a stack of lenses and catching them
- D. A technician slipping on a wet surface near the tinting station

23

Spectacle errors and omissions are recorded on the production report to:

- A. analyse the use of materials and stock
- B. create accountability for technicians
- C. justify delays in repairs and remakes
- D. track quality control issues and trends

24

What is the recommended procedure if a technician were to sustain a minor cut while working in the lab?

- A. Cover the cut with a tissue to prevent it affecting their work
- B. Leave the cut exposed to air and wash it occasionally
- C. Wait until the end of the day to address the cut
- D. Wash the cut and apply a sterile bandage

25

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

- A. Enforcing strict cost-cutting measures
- B. Implementing more complex procedures
- C. Prioritising speed over quality
- D. Reducing unnecessary processes

26

Which engraving is found on safety eyewear to guarantee its validity?

- A. BS EN ISO 4007 (replacement for BS EN 165)
- B. BS EN ISO 12870
- C. BS EN ISO 13666
- D. BS EN ISO 16321 (replacement for BS EN 166)

27

What differentiates rimless mounts from traditional frames?

- A. They are larger in size
- B. They do not have a frame
- C. They have a thicker frame
- D. They have no nose pads

28

Which of the following is a **key** reason for completing the final check in a quality control process?

- A. To decrease costs for the lab and maximise profit margins by reducing remakes
- B. To ensure customers receive high quality products that meet industry standards
- C. To increase production efficiency by reducing waste and future reproduction
- D. To show senior staff that technicians are working to required quality levels

29

Which of the following products would a technician recommend for someone that has a muscle imbalance within their eyes?

- A. Prism glasses
- B. Rimless mounts
- C. Single-vision lenses
- D. Sports goggles

30

Robotic technology contributes to the glazing process by:

- A. assisting with administrative tasks
- B. completing quality checks
- C. enhancing workplace safety
- D. increasing production efficiency

31

Mirrored tints in spectacles are designed to:

- A. enhance colour perception
- B. make objects appear larger
- C. reduce glare from sunlight
- D. reduce scratches on the lenses

32

What information is typically marked on an optical frame?

- A. Bridge size
- B. Heights
- C. Pupil distance
- D. Reading addition

33

Which of the following is an outcome associated with implementing continuous improvement techniques?

- A. A decreased focus on quality control and customer satisfaction
- B. An enhancement in productivity and efficiency in workflow processes
- C. An increase in production costs as processes become more streamlined
- D. The immediate elimination of all operational inefficiencies

34

Which of the following actions **must** be taken following a near miss incident in the lab?

- A. Disregard the incident as it did not result in an injury
- B. Disregard the incident unless it was witnessed by others
- C. Report the incident informally when there is time
- D. Report the incident to the appropriate authority

35

British Standard tolerances are used to:

- A. determine warranty coverage
- B. dictate pricing strategies
- C. standardise manufacturing processes
- D. verify finished spectacles

36

Which of the following is **not** an example of a digital piece of equipment?

- A. Blocker
- B. Edger
- C. Pupillometer
- D. Tint bath

37

Which of the following **must** be readily available at all times in the lab?

- A. A fire warden
- B. An eye bath
- C. Cleaning supplies
- D. Office materials

38

During quality control a focimeter can be used to:

- A. adjust the frame size and fit
- B. assess the comfort level
- C. check the lenses are clean
- D. measure the optical power

39

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

- A. Cleaning the workplace and equipment
- B. Ensuring all items are in suitable places
- C. Installing new machinery
- D. Sorting items in the lab

40

A technician is checking the calibration of 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 stock lens with a known power to check it is reading correctly

41

A colleague mentions that multiple completed jobs have needed re-blocking due to inaccuracies. Which of the following signs indicates that the blocker may require a calibration check?

- A. Barcode scanners taking longer to read items
- B. Lenses regularly being cut to the wrong size
- C. Screens displaying internal discoloration
- D. Suction pads leaving faint marks on lenses

42

It has been a record week of orders and the glazers need to be maintained. Which of the following actions can a technician take to ensure they are ready for use in the following week?

- A. Book a technician callout
- B. Check for lens residue and remove if found
- C. Strip down the machines
- D. Turn them off and on again to reset them

43

A technician has noticed inconsistent tinting results from the tint bath. After an inspection they realise this is because the heating element is malfunctioning. What is the appropriate action to take?

- A. Adjust the tinting solution concentration
- B. Ask the lab manager to replace the heating element
- C. Increase the tint bath temperature to counteract the issue
- D. Send the tint bath to the supplier for maintenance

44

A technician notices that a focimeter is consistently producing inaccurate readings and they think it needs to be calibrated. The technician would do this by:

- A. booking an external specialist that can complete the calibration
- B. changing the calibration screws until the issue stops happening
- C. replacing the lens holder and adjusting the display settings
- D. restarting the machine and setting it back to factory settings

45

A technician notices that the tint bath is causing the lenses to become yellow in colour after applying the UV coating. To rectify the issue they need to:

- A. check the temperature inside the tint jar and add more tint solution to intensify the colour
- B. decrease the exposure time of the lenses to the UV coating to reduce the yellowing effect
- C. empty the contents of the tint jar into the sink and replace it with a new UV pouch and water
- D. increase the duration of UV coating application to counteract the yellowing effect

**Level
3**



Highfield Qualifications

Highfield ICON
First Point
Balby Carr Bank
Doncaster
South Yorkshire
DN4 5JQ
United Kingdom

01302 363277
info@highfield.co.uk
www.highfieldqualifications.com