

Highfield Level 3 End-Point Assessment for ST0383 Spectacle Maker

Mock Assessment Materials

Professional Discussion

Knowledge - Health and safety			
Ref	Assessment Criteria	Achieved	Not achieved
HS1	Demonstrate understanding of health and safety principles, employee and employer rights and responsibilities. Can describe the company procedures and documentation related to the above, and how to source further details. Knows the types of organisations that represent the industry and their roles (K1)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
HS3	<i>Has a more detailed understanding of health and safety, COSHH, equality and employment responsibilities and can describe their role in the company around these. Understands the company procedures for the above, in addition to statutory rules. Can source details and reference outside bodies, and can demonstrate understanding of the roles and activities of different organisations in the optical industry and other overseeing bodies (K1)</i>		

Knowledge - Materials			
Ref	Assessment Criteria	Achieved	Not achieved
MA1	Can provide details of lens materials, types, uses and some basic technical information (K3)		
MA2	Can describe a number of common frame materials and list various parts correctly (K4)		

Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
MA3	Can detail the challenges and benefits of various lens types and materials, and further detail on how multifocals work (K3)		
MA4	Can provide details on the different frame materials used, how they differ in performance, and provide more detail on parts (K4)		

Knowledge - Tools			
Ref	Assessment Criteria	Achieved	Not achieved
TO1	Can provide details of what is needed to carry out QC, and detail the functions used when checking prism and power (K5)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
TO5	Knows all essential tools and equipment required and can confidently check power and prism with little/no supervision (K5)		

Knowledge - Quality			
Ref	Assessment Criteria	Achieved	Not achieved
QU1	Understanding the basic principles of quality checking and can perform QC practically. Understand different production checks and describe how they use standards (K9)		
QU2	Can describe the differences between lens types and identify surface defects and explain how they happen. Use tolerances for surface inspection and returns processes as applicable (K10)		
QU3	Can access essential reports and records, explain the data and reasons for keeping it (K11)		

Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
QU6	<i>Can explain the benefits of good QC process, and process more complex orders through quality checking, using standards accurately and describing how/why. Good knowledge of different product quality checks (K9)</i>		
QU7	<i>Has detailed knowledge of lens types and different forms. Can identify various defects and explain how they can happen and be prevented. Can apply tolerances to surface inspection accurately and document findings in the required detail (K10)</i>		
QU8	<i>Can access report data, show analysis of the information, the benefits for keeping it and how it fits with other store data recording (K11)</i>		

Knowledge - Construction of spectacles			
Ref	Assessment Criteria	Achieved	Not achieved
CS1	Knows the fundamental elements of why/how we apply lens treatments, and select the correct lens options accordingly (K14)		
CS2	Can describe a number of common frame materials and list various parts correctly (K15)		
CS3	Understand the design and use of multifocals, how they differ and how they are manufactured. Work out the prism in reading area and can describe prism control bifocals (K16)		
CS4	Can identify and describe the basic anatomical structures (K17)		
CS5	Knows the basic function of eye structures and how to correct refractive errors. Use correct terms for errors and describe lens types to use (K18)		
CS6	Can describe various lens types, their properties and optical uses (K19)		
CS7	Can describe the basic parts of spectacle makers' history and modern-day context, and can describe the importance of maintaining industry knowledge (K20)		

Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
CS8	<i>Has a broad technical understanding of the various treatments, their application process and purpose, and how to select the right lens types/materials (K14)</i>		
CS9	<i>Can provide details on the different frame materials used, how they differ in performance, and provide more detail on parts (K15)</i>		
CS10	<i>Can identify different multifocal types and describe how they differ in both identity and performance, and with more technical elements included (curvature, addition, inset, etc.) Understand the prismatic effect in reading area and discuss the prism control bifocal in detail (K16)</i>		
CS11	<i>Can detail how certain anatomical structures work in conjunction to each other (K17)</i>		
CS12	<i>Can illustrate knowledge on refractive errors, how to correct, what the impact is on vision, before and after correction, and the correlation of prescription and refractive error (K18)</i>		
CS13	<i>Can describe various lens types, how they are used, the material seen, the variations in technical information on a given lens (Abbe no., index, thickness, etc.), benefits over other products (K19)</i>		
CS14	<i>Has more detailed understanding of spectacle makers' history and involvement in wider optical bodies, its current format and how their industry knowledge could influence their care (K20)</i>		

Knowledge - The manufacture, service and repair of spectacles			
Ref	Assessment Criteria	Achieved	Not achieved
MS1	Correctly complete the set questions provided; arithmetic calculations, use of BODMAS, etc. (K22)		
MS2	Label parts of a circle and discuss where these apply in optical manufacturing. Use of SIN, COS, TAN in calculating right-angled triangle parameters and how these relate to optics (K23)		
MS3	Correctly complete the set questions provided; lens power, focal length, radius of surface, etc. (K24)		
MS4	Can accurately produce graphical info from data and work back from graphs too. Provide examples of where this is used in their role (K25)		

MS5	Can access essential reports and records, explain the data and reasons for keeping it (K26)		
MS6	Explains the stock control process, data tracking involved and advantages of good/disadvantages of bad stock control (K27)		
MS7	Can perform audits as required and describe the benefits of stock audit (K28)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
MS11	<i>Describe reasons why/how these calculations would be used in practical optics (K22)</i>		
MS12	<i>Provide further detail on how the circle and right-angled triangle definitions fit into optical manufacturing and where they might be used (K23)</i>		
MS13	<i>Show full working out, and describe reasons why/how these calculations would be used in practical optics (K24)</i>		
MS14	<i>Can interpret graphical data in both directions, analyse its importance/relevance and state when/where graphs and data analysis would be used (K25)</i>		
MS15	<i>Can access report data, show analysis of the information, the benefits for keeping it and how it fits with other store data recording (K26)</i>		
MS16	<i>Can provide evidence of jobs affected by good and bad stock control and records of the results (K27)</i>		
MS17	<i>Knows the benefits and challenges of auditing stock products and can accurately detail the process (K28)</i>		

Skills - Health & Safety and working environment			
Ref	Assessment Criteria	Achieved	Not achieved
HW1	Can describe what environmental hazards are present in the lab (and store if applicable), and show the processes for different types of waste disposal (S1)		
HW2	Explain their own responsibilities to the Health and Safety at Work etc. act, and what emergency response processes are in place (S2)		

Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
HW4	<i>Describe specific products and processes in the lab (and store if applicable) that pose a hazard, what the implication of such hazards might be, and how to dispose of specific waste products and what the processes are for disposal of packaging (S1)</i>		
HW5	<i>Can explain the Health and Safety at Work etc. act in terms of employer/employee responsibilities, who is involved in incident reporting and the emergency/alarm procedures (S2)</i>		

Skills - Technical interpretation and understanding			
Ref	Assessment Criteria	Achieved	Not achieved
TI1	Demonstrate the ability to understand orders, process the data and discuss the technical terms used. Can identify and correct errors found (S4)		
TI2	Can describe order document contents, various order types, transpose prescriptions and explain the links between order content and successful lens delivery (S5)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
TI4	<i>Discuss in detail the reasons for specific terms, how data can affect an order, how errors can cause further issues and elaborate on what they could be. Can accurately deal with error correction and the processes around it (S4)</i>		
TI5	<i>Can explain the interaction of various elements of an order document, the different ordering processes available, and how to transpose. Understands and can explain the variations that can result from incorrect information on orders (S5)</i>		

Skills - Manufacturing and repair processes			
Ref	Assessment Criteria	Achieved	Not achieved
MR1	Demonstrates ability and knowledge in how to start the glazing process with fundamental edger settings (S7)		
MR2	Knows how and when to perform calibration processes and deal with edger errors/faults (S8)		
MR3	Can perform basic transposition, lens power measurements, and visually identify lens products (S9)		
MR4	Can perform/source basic frame and lens measurements and decide on suitable/unsuitable lenses accordingly (S10)		
MR5	Can demonstrate general stock product management process, and discuss the benefits (S11)		
MR6	Demonstrate knowledge of prescription lens glazing/manufacturing process, and the admin involved, including stock control (S12)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
MR10	<i>Can understand and demonstrate why edgers are set up for different products and materials and can describe/demonstrate the outcomes of the settings used (S7)</i>		
MR11	<i>Can explain the reasons for calibration, what the positive and negative effects can be, and the reasons behind errors and faults observed on edgers and cut lenses (S8)</i>		
MR12	<i>Understands the reasons for transposition, what powers/meridians mean and how lenses of different types of power differ from each other in appearance (S9)</i>		
MR13	<i>Can demonstrate the interaction of prescription and frame measurements and the effect this can have on the finished item (S10)</i>		
MR14	<i>Can advise colleagues on stock process, and manage stock process independently (S11)</i>		
MR15	<i>Can accurately describe how to manufacture different prescription lenses and glaze different frame types, what reports or administration is involved and what forms of stock control might be required (S12)</i>		

Skills - Quality			
Ref	Assessment Criteria	Achieved	Not achieved
QT1	Understanding the basic principles of quality checking and can perform QC practically. Understand different production checks and describe how they use standards (S17)		
QT2	Knows where to access productivity data; can describe why and how we use it and the benefits of using data (S18)		
QT3	Can explain the MDD labelling requirements (S19)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
QT9	<i>Can explain the benefits of good QC process, and is able to process more complex orders through quality checking, using standards accurately and describing how/why. Good knowledge of different product quality checks and when/where they apply to the manufacturing process (S17)</i>		
QT10	<i>Can access, describe and correlate various types of productivity data, and explain the benefits and challenges around this (S18)</i>		
QT11	<i>Is able to translate incorrect labelling into possible consequences for the customer (S19)</i>		

Behaviours - Quality focused			
Ref	Assessment Criteria	Achieved	Not achieved
QF1	Demonstrate the ability to manage own workload, identify individual stages in manufacturing and change work role as required by day-to-day operational needs (B1)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
QF2	<i>Can manage own workload without supervision and assist in varied tasks/multitasking as required. Describe the 'job journey' through the lab process. Ensure that quality and environmental standards are maintained (B1)</i>		

Behaviours - Self-development			
Ref	Assessment Criteria	Achieved	Not achieved
SD1	Understands the importance of continuing development, can highlight individual elements and how the business is supporting them. Can provide evidence of colleague interaction and adaptation of work-based skills to adjust to their role (B3)		
SD2	Shows the right approach to the role and the continual need to develop technical skills and knowledge. Can demonstrate understanding of the history of spectacle making (B4)		
SD3	Evidence of objectives, achievements, and feedback on development with clear records (B5)		
Ref	Assessment Criteria - (Distinction)	Achieved	Not achieved
SD4	<i>Knows the importance of personal development, to both self and the business. Can provide evidence of 1-2-1, review and colleague-supported development. Knows the opportunities for support in the business and can evidence any external contact and skill changes/improvements through development (B3)</i>		
SD5	<i>Has a positive approach to all work tasks and willingly takes on extra responsibility as relevant to their ability. Keeps up with new products and services in the industry and appreciates both the historical and the contemporary involvement of spectacle making (B4)</i>		
SD6	<i>Can evidence and personally report on development objectives and what level of achievement has been reached. Feedback is clear and actioned, records are precise and clear (B5)</i>		