Paper: **6314-2**** Paper Title: **Core Items**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of Items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total No of Qs	%
01.01 Health and Safety regulations – roles and responsibilities	01.01 Identify key health and safety legislation for construction sites	1	1	1.6
	01.02 Describe the key employer responsibilities under the Health and Safety at Work Act (HASWA) 1974			
	01.03 Describe the key employee responsibilities under HASWA			
	01.04 Explain the role and responsibilities of the Health & Safety Executive			
	01.05 Identify sources of health and safety information			
	01.06 describe the legislative requirements for contacting the health and safety executive			
	01.07 Identify the need for enforcing stringent guidelines in health and safety			
	01.08 Explain the importance of controlling on site safety inductions and tool box talks.			
	01.09 Describe the need for Construction Skills Certification Scheme (CSCS) testing			
	01.10 describe the requirements involved in obtaining a skill card under the CSCS scheme			
02.01a Fire/Accident/First	02.01 Identify major types of emergencies in the work place	1	2	3.3

Aid/Emergency procedures and reporting	02.02 State the key legislation for reporting accidents			
	02.03 Describe the types of injuries, diseases and occurrences in the workplace relevant to Reporting of Injuries, Diseases and Dangerous Occurrence Regulations 1985 (RIDDOR)			
	02.04 Identify the main types of accident and emergency records			
	02.05 Explain the importance of accident recording			
	02.06 Identify the difference between major and minor injuries			
	02.07 Identify the meaning of a near miss			
	02.08 List the key accident trends within the UK building industry			
02.01b Fire/Accident/First Aid/Emergency procedures and reporting	02.09 Describe the cost to the employer of the most common types of accidents and injuries	1		
	02.10 List of authorised persons including first aiders			
	02.11 List the basic requirements of a first aid box			
	02.12 State the actions to be taken when discovering an accident			
	02.13 List the three elements essential to creating a fire			
	02.14 Explain how a fire can spread			
	02.15 Identify methods of fire prevention			

	02.16 Identify different types of fire extinguisher and their uses			
	02.17 State action to be taken on discovering a fire			
	02.18 State the fire evacuation procedures			
03.01a Identify hazards on Construction sites/Working with electricity	03.01 State the importance of good house keeping	1	2	3.3
	03.02 Identify the purpose of risk assessments			
	03.03 Identify the purpose of method statements			
	03.04 Identify why a near miss needs to be reported			
	03.05 List major types of hazards in the workplace			
	03.06 State the importance of correct storage of combustibles and chemicals on sites			
03.01b Identify hazards on Construction sites/Working with electricity	03.07 Identify precautions to be taken to avoid risk to themselves and others	1		
	03.08 State the dangers associated with electricity			
	03.09 State the effects of an electric shock			
	03.10 Identify the different voltages to be used			
	03.11 Explain the need for colour coding of cables and wiring			

	03.12 Explain how safe site voltages are achieved 03.13 State the importance of correctly storing electrical equipment			
04.01a Health and hygiene/Safe handling of materials and equipment/Using basic working platforms	04.01 List the requirements of welfare facilities	1	2	3.3
	04.02 Identify the health effects of noise and appropriate precautions			
	04.03 Identify various substances hazardous to health under the control of substances hazardous to health (COSHH) and identify appropriate precautions			
	04.04 Identify the importance of personal hygiene			
	04.05 Explain the type of hazards linked with drugs and alcohol			
	04.06 List possible consequences of health risks in the workplace			
	04.07 Describe procedures for safe lifting			
04.01b Health and hygiene/Safe handling of materials and equipment/Using basic working platforms	04.08 Explain the importance of using site safety equipment	1		
	04.09 Identify the key legislation governing the safe handling of materials and equipment			

	04.10 Describe the importance of waste control procedures in the work place			
	04.11 Identify safe methods of use and appropriate component part of working platforms			
	04.12 Identify good practice methods in the use of step ladders, ladders, extension ladders, trestles and proprietary tower scaffolding			
	04.13 Identify component part of ladders and extension ladders, trestles and proprietary tower scaffolding			
	04.14 Identify the dangers of working at height			
05.01a Use of appropriate Personal Protective Equipment/Signs and notices	05.01 Identify the types of PPE used in the workplace	1	2	3.3
	05.02 State the importance of correct storage and maintenance of PPE			
	05.03 Describe the importance of using PPE			
	05.04 State the legislation governing PPE			
05.01b Use of appropriate Personal Protective Equipment/Signs and notices	05.05 Identify the purposes of PPE	1		
	05.06 Describe the possible consequences of not using PPE			
	05.07 List the appropriate safety signs for the work place			

06.01a Interpret and produce building information	06.01 State types of information available	1	2	3.3
	06.02 Describe how to check information for conformity			
	06.03 Interpret information from specifications			
06.01b Interpret and produce building information	06.04 Interpret simple location drawings	1		
	06.05 Describe how to use equipment to produce drawings			
	06.06 State the scales used to produce simple location drawings			
	06.07 Explain the purpose of location drawings			
07.01a Estimate quantities of resources	07.01 Compare different methods used to estimate quantities of materials needed in a Construction project	1	2	3.3
	07.02 Describe the systems in place for deciding what materials should be used and where they can be purchased			
07.01b Estimate quantities of resources	07.03 Compare estimated labour rates for different construction projects	1		
	07.04 Define the difference between quoting, estimated pricing and tender process			
	07.05 Describe the implications of inaccurate estimates			
08.01a Communicate workplace requirements efficiently	08.01 State the key personnel involved within the communication cycle	1	2	3.3
	08.02 Describe the effects of poor communication			

08.01b Communicate workplace requirements efficiently	08.03 Explain how communication improves teamwork and motivation	1		
	08.04 Describe the advantages and disadvantages of these methods of communication			
	08.05 List the occasions when clear communication is vital in the workplace			
09.01a Principles behind walls, floor and roofs	09.01 Describe a range of different types of structure	1	5	8.3
	09.02 Explain why different building structures have different energy efficiency			
	09.03 Explain why different building construction methods have structural stability			
09.01b Principles behind walls, floor and roofs	09.04 Identify working drawings for a domestic dwelling	1		
	09.05 Explain the need for precise drawings using keys and hatching			
	09.06 Describe the importance of accurate setting out of foundations and wall			
09.01c Principles behind walls, floor and roofs	09.07 Describe the construction of concrete foundations	1		
	09.08 Describe different types of floor construction and their flooring component parts			
	09.09 Identify the types and reason for using different materials in external walling			
	09.10 Identify the types of energy saving construction in internal walling			

09.01d Principles behind walls, floor and roofs	09.11 Identify methods of applying decorative protective coating to walls, floors and roof components and surface	1		
	09.12 Explain the importance of Damp Proof Membrane and Damp Proof Course			
	09.13 Explain the purpose of load and non load bearing internal walling			
09.01e Principles behind walls, floor and roofs	09.14 Identify different types of roof structures and their roofing component parts	1		
	09.15 Explain the need for felt and battens in pitched roofs			
	09.16 Investigate the different methods used to construct a domestic dwelling			
10.01a Construction of internal and external masonry	10.01 State types of materials used in construction of domestic dwellings	1	5	8.3
	10.02 Investigate materials used in the construction of domestic dwellings			
10.01b Construction of internal and external masonry	10.03 Describe key properties of timber, brick, blocks, timber, insulation materials	1		
	10.04 Describe where different materials are used in domestic dwellings			
	10.05 Describe the key characteristics of materials used internally in a dwelling			
10.01c Construction of internal and external masonry	10.06 List the effects of water on building materials	1		
	10.07 Identify the effects of frost on building materials			
	10.08 List the effects of chemicals on building materials			
10.01d Construction of internal and	10.09 Explain the different paint covering used internally	1		

external masonry	10.10 Analyse the advantages and disadvantages with painted protective coating			
10.01e Construction of internal and external masonry	10.11 List the effects of heat and fire on building materials	1		
	10.12 Describe the reasons for treating materials with chemicals			
	10.13 Explain the methods used to rectify material deterioration			
11.01a Roof construction	11.01 Describe the importance of stock rotation and delivery times	1	2	3.3
	11.02 Describe the effects of bad weather on building materials			
	11.03 Describe methods and equipment used to protect materials			
11.01b Roof construction	11.04 Explain the processes for checking deliveries to construction sites	1		
	11.05 Identify the tools used to transport materials			
	TOTAL	27	27	45

Paper: **6314-201** Paper title: **Painting & Decorating**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	%
14.01 Inspect components and complete reports	14.01 Describe the function of scaffolding components	1	1.6
15.01 Erect and work from access equipment and working platforms	15.07 Describe the purpose of regulation dimensions	1	1.6
17.01a Prepare metal surfaces ready to receive finishing systems	17.04 List and explain corrosion factors	1	3.3
	17.05 Describe the effects of corrosion		
17.01b Prepare metal surfaces ready to receive finishing systems	17.07 Describe the preparation processes for untreated ferrous and non ferrous metals	1	
	17.08 State the primers used on metal types		
	17.09 State the function that primers perform on metal types		
18.01 Prepare trowelled	18.02 Describe the physical properties of surface types	1	1.6

finishes and plasterboard ready to receive finishing systems	18.03 Describe the chemical properties of surface types		
	18.05 Describe the effects of moisture on surface types		
20.01 Rectify surface conditions	20.02 Describe the correct rectification process for surface conditions and defects	1	1.6
	20.03 State how surface conditions and defects can be avoided		
	20.07 Identify the defects and causes of unsound paint on timber and manufactured timber product surfaces		
23.01a Prepare materials for application and apply water-borne and solvent-borne coatings by brush and roller	23.06 Describe drying processes and stages	1	6.6
	23.08 State how the atmospheric conditions may affect the drying process		
23.01b Prepare materials for application and apply water-borne and solvent-borne coatings by brush and roller	23.13 Outline the basic sources of colour	1	
23.01c Prepare materials for application and apply water-borne and solvent-borne coatings by brush and roller	23.14 State colour terms correctly	1	
23.01d Prepare materials for application and apply water-borne and solvent-borne coatings by brush and roller	23.15 Explain the effects of artificial light on colour	1	
	23.16 Explain the reason for colour organisational systems		
28.01a Apply papers to ceilings	28.01 Explain the factors to be considered when planning the	1	8.3

and walls	positioning of papers		
28.01b Apply papers to ceilings and walls	28.02 Specify the use of each paper in the range	1	
28.01c Apply papers to ceilings and walls	28.04 Describe the methods of calculating the quantity of paper for the pattern types and areas planned	1	
28.01d Apply papers to ceilings and walls	28.05 Explain cutting considerations	1	
28.01e Apply papers to ceilings and walls	28.12 Explain the causes of defects and how they can be prevented	1	
31.01a Produce broken colour effects using water-borne and solvent-borne scumbles	31.02 State the main ingredients in an oil-based glaze	1	3.3
	31.03 State the difference between a glaze and a scumble		
31.01b Produce broken colour effects using water-borne and solvent-borne scumbles	31.04 State methods of extending and reducing the drying time of oil-based and acrylic scumbles	1	
	31.09 State application faults which may result in an uneven pattern effect and how these faults may be prevented		
	31.10State the difference between ‘opaque’ and ‘translucent’ in relation to surface coatings		
32.01 Prepare stencil plates from given design and apply stencils	32.02 Describe methods of transferring a design onto stencil plate materials	1	1.6

	32.04 Explain why the whole plate should be treated and the problems which may occur if this is not done		
	32.05 Describe the suitability of base materials used for cutting stencil plates		
33.01a Produce straight grain wood effects and fantasy marbles	33.04 State ingredients used in oil-based scumbles for effects	1	8.3
33.01b Produce straight grain wood effects and fantasy marbles	33.05 State the method by which oil-based glazes dry	1	
33.01c Produce straight grain wood effects and fantasy marbles	33.08 State materials which will prevent cissing when applying water colour	1	
33.01d Produce straight grain wood effects and fantasy marbles	33.09 State the tools and brushes required to produce each effect and the materials from which they are made	1	
33.01e Produce straight grain wood effects and fantasy marbles	33.11 Explain each of the processes in relation to each wood and marble effect	1	
34.01 Produce basic textured finishes using brush and roller	34.07 Describe finishing processes and explain their purpose and the timing for applying them	1	1.6
	34.08 Describe the effects of drying conditions when applying texture paint and the wet texture finish		
36.01a Select components and produce a working	36.03 Identify and state the function of HVLP spray gun components	1	3.3

HVLP unit	36.05 Identify and state the function of each component part		
	36.06 Describe the assembly sequence for component parts of spray system types		
36.01b Select components and produce a working HVLP unit	36.08 Explain why an air pressure check at the nozzle is required	1	
	36.09 Identify Health and Safety issues when working with HVLP systems		
37.01a Prepare and apply water-borne coatings by HVLP spray	37.01 Explain the importance of correct material viscosity and how to adjust and check it	1	3.3
	37.02 Describe the importance of maintaining viscosity of “batches”		
	37.03 Explain the importance of correct material viscosity and how to adjust and check it		
	37.04 Explain the importance of using correct application techniques		
37.01b Prepare and apply water-borne coatings by HVLP spray	37.05 Define the terms WFT and DFT and explain how they affect surface protection	1	
	37.06 Explain the effects of atmospheric conditions on the viscosity and drying process of surface coatings		
	37.07 Identify the appropriate PPE and RPE for applying paint by HVLP spray		
38.01a Rectify faults in spray painting equipment and defects in applied coatings	38.01 Identify equipment faults and explain correction and prevention procedures	1	6.6

38.01b Rectify faults in spray painting equipment and defects in applied coatings	38.02 Identify equipment faults and explain correction and prevention procedures	1	
38.01c Rectify faults in spray painting equipment and defects in applied coatings	38.03 Explain the causes and remedies of defects in applied coatings	1	
38.01d Rectify faults in spray painting equipment and defects in applied coatings	38.04 Describe spray terminology	1	
39.01 Clean, maintain and store HVLP spray equipment and materials	39.01 State the safety factors to be observed when operating “shutdown procedures”	1	1.6
	39.02 List the correct sequence for cleaning and flushing the HVLP system being used		
	39.03 State the requirements for the maintenance and storage of spray equipment		
TOTAL		33	55

Paper: **6314-202** Paper title: **Site Carpentry**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	%
12.01a Fix frames and linings	12.01 identify types of door frames and door linings	1	3.3
	12.02 identify types of window frames and linings		
12.01b Fix frames and linings	12.03 identify appropriate methods of fixing frames and linings	1	
	12.04 list the tools and equipment used to install door frames and linings		
13.01a Fit and fix floor coverings and flat roof decking	13.01 identify the types and sizes of timber or manufactured board joist coverings	1	3.3
13.01b Fit and fix floor coverings and flat roof decking	13.02. describe the types and methods of fixing joist coverings	1	
	13.03 describe methods of forming openings to services under floors		
14.01a Erect timber stud partitions	14.01 identify the sizes and types of timber to be used to construct a partition wall	1	3.3
	14.02 describe the materials and properties which are used to cover a partition wall		
14.01b Erect timber stud partitions	14.03 describe the ways of fixing services within the partition wall	1	
	14.04 identify the types of fixings		
15.01a Assemble, erect and fix straight flights of stairs including handrails	15.01 identify the different components and materials, which are used to form a staircase and balustrades	1	5
	15.02 describe the method of fixing a staircase and balustrades		

15.01b Assemble, erect and fix straight flights of stairs including	15.03 describe the method of levelling	1	
15.01c Assemble, erect and fix straight flights of stairs including	15.04 identify the tools and equipment needed to manufacture and fix a straight flight of stairs	1	
16.01a Install side hung doors and Ironmongery	16.01 identify internal, external and fire resisting doors	1	5
16.01b Install side hung doors and Ironmongery	16.02 identify door ironmongery	1	
17.01a Install mouldings	17.01 identify types and sizes of mouldings	1	3.3
	17.02 list the tools and materials used to fix mouldings		
17.01b Install mouldings	17.03 describe methods of fixing mouldings	1	
	17.04 describe methods of jointing mouldings		
	17.05 describe methods of scribing moulding to adjacent surfaces		
18.01 Install service encasements and cladding	18.01 describe methods of encasing services	1	1.6
	18.02 identify types and sizes of cladding		
	18.03 describe method of fixing cladding		
	18.04 list the tools and materials used to fix cladding		
	18.05 describe the purpose of datum points and their uses		

	18.06 describe methods of accessing services behind cladding		
19.01a Install wall, floor units and fitments	19.01 describe method of fixing wall and floor units	1	3.3
	19.02 describe method of jointing post-formed and timber worktops		
19.01b Install wall, floor units and fitments	19.03 describe how electric, gas and water pipes can be detected and protected whilst fitting wall and floor units	1	
20.01a Erect truss rafter roofs	20.01 describe the procedure for erecting truss rafter roofs	1	5
	20.02 describe the procedure for transporting and lifting truss rafters		
20.01b Erect truss rafter roofs	20.03 identify propriety fixing methods	1	
20.01b Erect truss rafter roofs	20.04 describe the procedure for forming openings in truss rafter roofs	1	
	20.05 describe alternative methods of constructing truss rafter roofs at ground level		
	20.06 list the tools and equipment used to erect truss rafters		
21.01 Construct gables, verge and eaves	21.01 describe the method of finishing gables	1	1.6
	21.02 describe the methods of finishing eaves		
	21.03 list the tools and equipment used to construct gable and eaves finishes		
22.01a Install floor joists	22.01 describe methods of supporting joists	1	3.3
	22.02 describe the method of forming an opening in floor joists		
	22.03 describe methods of strutting floor joists		

22.01b Install floor joists	22.04 identify the different types of floor joists	1	
	22.05 state the importance of protecting joists from moisture		
23.01a Repair mouldings / Repair doors and windows	23.01 describe the types of fungal attacks on timber	1	3.3
	23.02 describe the types of insect infestations on timber		
	23.03 describe how to dispose of affected timber		
23.01b Repair mouldings / Repair doors and windows	23.04 identify different types of timber	1	
	23.05 describe paint systems and ways of applying them		
	23.06 describe methods of applying preservatives to timber		
24.01 Replace gutters and down pipes	24.01 identify damaged gutters and down pipes	1	1.6
	24.02 identify different materials used to make gutters and down pipes		
	24.03 identify different guttering and down pipe profiles		
	24.04 describe how guttering is jointed		
	24.05 name the components used to make up down pipes and guttering		
25.01 Replace sash cords	25.01 identify damaged or broken sash cords	1	1.6
	25.02 identify the components of a box sash window		
	25.03 describe the method of fixing a new sash cord		

26.01 Make good plaster, paintwork and brickwork	26.01 identify types of plaster	1	1.6
	26.02 describe the method of mixing and applying plaster using hand tools		
	26.03 describe the method of preparing old surfaces for remedial work		
	26.04 identify appropriate materials to make mortar		
	26.05 describe the method of mixing mortar		
27.01a Set up fixed and transportable circular saws	27.01 describe the current legislation that applies to fixed and transportable circular saws	1	3.3
	27.02 list potential hazards		
	27.03 describe the procedure to be taken upon identification of hazards or faults		
27.01b Set up fixed and transportable circular saws	27.04 describe the methods for dust extraction on circular saws	1	
	27.05 state the importance for dust extraction on circular saws		
	27.06 identify the components of a circular saw		
	27.07 identify the sawing safety aids used in conjunction with circular saws		
28.01a Change saw blades	28.01 describe safe methods of changing saw blades on fixed and transportable saws	1	3.3
	28.02 describe the current legislation for changing saw blades including peripheral speeds		
	28.03 state the hazards caused by incorrectly fitting saw blades		
	28.04 identify the types of saw blades and describe their uses		
28.01b	28.05 identify the parts of a circular saw blade	1	

Change saw blades	28.06 describe the effects of timber and sheet material on circular saw blades		
	28.07 describe the use of lubricant and its purpose		
29.01a Cut timber and sheet material	29.01 describe methods of timber conversion	1	3.3
29.01b Cut timber and sheet material	29.02 describe defects found in timber	1	
	TOTAL	33	55

Paper: **6314-203** Paper title: **Plastering**

Duration**: 90 minutes** Assessment type: **Multiple choice** No. of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	%
12.01a Interpret information from drawings and specifications relating to internal work and expanded metal Lathing in narrow widths	12.01 State the purpose of information systems	1	1.6
	12.02 Interpret working drawings for internal applications		
	12.03 Explain methods of reporting discrepancies		
13.01a Select and prepare materials	13.01 Explain the effect of using out of date plasters	1	3.3
	13.02 State the correct method of storing plasters		
	13.03 Explain the reasons for storing plasters in date order		
	13.04 State the reasons for ensuring compatibility of backgrounds and finish plaster		
13.01b Select and prepare materials	13.05 List the materials and their limitations	1	
	13.06 State the purpose and use of Expanded metal lath EML narrow widths		
	13.07 State the purpose and use of beads and trims		
14.01a Apply one and two coat plaster to internal backgrounds	14.01 Explain how to prepare background surfaces	1	3.3
	14.02 List the sequence of operations for mixing plaster materials		
14.01b Apply one and two coat plaster to	14.03 Explain how to form internal and external angles	1	

internal backgrounds	14.04 State how to form external angles with beads or trims		
15.01a Interpreting information from specifications for external work	15.01 Organise own programme of work	1	1.6
	15.02 State the purpose of the specification		
	15.03 State methods used to protect the surrounding environment		
	15.04 Explain organisational requirements		
16.01a Select materials, tools and equipment	16.01 Explain the effects of selecting incorrect types of aggregate for external rendering	1	5
	16.02 Explain the reasons for using well graded aggregates		
	16.03 List types of sand used for external rendering		
	16.04 Describe site tests used on sands		
	16.05 List the types of one coat renders		
	16.06 State the reasons for use of lime and plasticisers		
16.01b Select materials, tools and equipment	16.07 State the reasons for the use of water proof additive	1	
	16.08 State types of metal/plastic trims and beads		
	16.09 Describe the characteristics of materials listed in the range		
16.01c Select materials, tools and equipment	16.10 State the limitations of aggregate, limes and cements	1	
	16.11 List the tools used for external rendering		
	16.12 List the equipment required for external rendering		

17.01a Prepare materials	17.01 Describe how to correctly establish the correct mix proportions	1	1.6
	17.02 Explain the characteristics of materials		
	17.03 State the importance of quality of water in mixing operations		
	17.04 State methods used to protect materials from the weather		
18.01a Apply render to external backgrounds	18.01 Explain the importance of compatibility between backgrounds and render to be applied	1	3.3
	18.02 State the reason for the use of two or more applications of render in sequence		
	18.03 State the reasons for providing a mechanical key between coats		
	18.04 Describe the methods used to provide a mechanical key		
18.01b Apply render to external backgrounds	18.05 List the types of beads suitable for external use	1	
	18.06 Explain the methods used to fix beads and trims		
	18.07 State the reason for bell casts		
19.01a Interpreting information from specifications for dry lining work	19.01 Recognise different types of drawings	1	1.6
	19.02 Explain the purpose of schedules		
	19.03 Calculate quantities of specified materials		
20.01a Select materials and components	20.01 Explain the purpose of assembly drawings	1	3.3
	20.02 Explain the importance of the compatibility of materials		

	20.03 List the types and size of sheet materials		
	20.04 List materials used for jointing and taping and sealing		
	20.05 List materials for applying one coat finishing plaster		
	20.06 Explain the use of bonding compounds		
20.01b Select materials and components	20.07 Explain the use of hand and power tools	1	
21.01a Prepare and install dry linings by direct bond to internal solid backgrounds	21.01 Explain methods of applying boards	1	5
21.01b Prepare and install dry linings by direct bond to internal solid backgrounds	21.02 Explain how backgrounds are prepared	1	
	21.03 List procedure for setting out		
	21.04 Identify starting points for lining to ensure efficient use of boards		
	21.05 Explain the method of jointing, finishing & sealing		
	21.06 State the purpose of datums		
	21.07 Explain the methods of transferring levels		
21.01c Prepare and install dry linings by direct bond to internal solid backgrounds	21.08 Explain the methods of overcoming fixing problems	1	
	21.09 State methods for maintaining plumb and in line surfaces		

	21.10 Explain the methods of protecting surrounding areas and completed work		
22.01a Interpreting information from specifications and drawings relating to the formation of surfaces level and to falls	22.01 State the purpose of location drawings	1	1.6
	22.02 Calculate areas and volumes of mixed materials and ratios		
23.01a Selecting materials, components and equipment	23.01 State components and equipment used when screeding	1	3.3
	23.02 State type of sand and cement used in screeding		
	23.03 Explain the use of ready mixed screeds		
23.01b Selecting materials, components and equipment	23.04 Explain the use of screed rails	1	
	23.05 Explain the use of expansion beads and trims		
	23.06 Identify types of damp proof membranes		
	23.07 State the purpose of damp-proof membranes		
24.01a Preparing materials and laying sand and cement screeds to levels or falls	24.01 Describe the method of laying battens and screeds to levels and falls	1	5
	24.02 Explain the use of self-levelling screeds		
	24.03 Describe how to gauge and mix material to the correct the consistency		
	24.04 State the effects of incorrect gauging of screeding materials		

24.01b Preparing materials and laying sand and cement screeds to levels or falls	24.05 State the purpose of compacting and finishing floor screeds	1	
	24.06 Describe methods used to transfer levels and falls		
	24.07 Explain how to set up drainage outlets in the screeds		
24.01c Preparing materials and laying sand and cement screeds to levels or falls	24.08 Describe methods used for curing screeds	1	
	24.09 State the purpose of curing screeds		
25.01a Interpreting information for fibrous work from drawings and specifications	25.01 List different types of information sources	1	1.6
	25.02 State the purpose of information sources		
	25.03 Explain how moulded outlines are produced from drawings		
	25.04 State the methods used for geometrical setting out		
	25.05 Calculate quantities of material required and areas of plasterwork		
26.01a Select materials, components and equipment	26.01 List materials used to form running moulds	1	1.6
	26.02 List materials used for flexible moulds		
	26.03 List the types of plaster used for running: moulding: castings		
	26.04 List the materials used for reinforcing plaster mouldings		
	26.05 State the characteristics of materials in the range		

	26.06 List types of hand tools to be used		
27.01a Produce fibrous plaster components	27.01 State methods of making reverse running moulds	1	5
	27.02 State methods of forming reverse mouldings.		
27.01b Produce fibrous plaster components	27.03 State methods used to produce plain plaster mouldings	1	
	27.04 State the effects of incorrectly positioned reinforcing materials		
	27.05 State the purpose of wads/ropes and laps used during casting		
	27.06 State how mouldings are produced by the run/cast method		
	27.07 Explain the reason for using reinforcement in the horizontal and vertical position		
	27.08 State methods of gauging and mixing casting plasterers		
27.01c Produce fibrous plaster components	27.10 Explain the reason for soaking laths	1	
	27.11 Explain the reasons for using reinforcing materials		
	27.12 Explain the reason for the use of “firstings” and “seconds”		
	27.13 Explain the reason for sealing and seasoning models and moulds		
28.01a Interpreting information	28.01 Explain types and purpose of information sources	1	1.6
	28.02 State methods of reporting inaccuracies of information		

	28.03 Describe methods used to calculate area from information sources		
	28.04 State the purpose of the specification		
29.01a Selecting materials, components and equipment	29.01 State the purpose of the specification	1	1.6
	29.02 Describe the types of mouldings: plain and decorative		
	29.03 Explain the properties of fibrous plaster		
	29.04 State the purpose of rebated joints in plain face slabs		
	29.05 State the purpose of square joints in plain face slabs		
	29.06 State the purpose of lapped joints in plain face slabs		
30.01a Preparing and fixing fibrous plaster components	30.01 Describe methods of fixing: screw, nails, wire and wads, stick/bond	1	3.3
30.01a Preparing and fixing fibrous plaster components	30.02 Explain the effects of incomplete preparation of fibrous components	1	
	30.03 State the reasons for pre drilling pilot holes for fixing fibrous plaster		
	30.04 List the advantages of preparing fixing points		
	30.05 State the purpose of checking backgrounds		
	30.06 List the types and sizes of fixings used in fibrous fixing		

	30.07 Describe the methods of supporting heavy mouldings during fixing		
	30.08 Explain the methods of aligning plain face slab		
	30.09 State the purpose of reinforcing scrim to rebates of plain face slabs		
TOTAL		33	55

Paper: **6314-204** Paper title: **Bricklaying**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total number of Qs	%
12.01a Plan and select resources for practical tasks	12.01 describe the type of drawings and conventions commonly used	1	3	5
	12.02 state scales commonly applied to drawing			
	12.03 describe methods of reading and taking measurements from drawings			
12.01b Plan and select resources for practical tasks	12.04 access a range of information sources	1		
	12.05 identify the resources required for carrying out various forms of cavity walling			
	12.06 identify the working characteristics of the resources required for building various forms of cavity walling			
12.01c Plan and select resources for practical tasks	12.07 state the reasons for checking datum heights at corner positions	1		
	12.08 identify risks involved in selecting and handling walling materials and components			
	12.09 identify type, size and position of, components, tools and equipment			
13.01a Erect cavity walling to required specification	13.01 identify position of bricks, blocks and other components, ready for use	1	4	6.6
	13.02 identify methods of cutting and preparing components			

	13.03 state methods of providing foundations and sub structure walling to include provision of service entry and damp proof course (DPC)			
	13.04 describe method of establishing face bonds for cavity walling including use of broken bond			
13.01b Erect cavity walling to required specification	13.05 describe methods used to maintain industrial standards when erecting brickwork and blockwork walling	1		
	13.06 describe methods used, for the provision of insulation requirements for cavity walling			
	13.07 identify methods of providing decorative features to masonry walling			
	13.08 describe reasons for and positioning of, vertical movement joints in cavity walling			
13.01c Erect cavity walling to required specification	13.09 identify safe working practices when erecting cavity walling at height	1		
	13.10 state recommended heights of walling constructed at any one time			
	13.11 state the types, uses and limitations of jointing and pointing			
	13.12 state the purpose of protecting surrounding areas from damage arising from work activities			
13.01d Erect cavity walling to required specification	13.13 identify methods of protecting work and surrounding areas from damage during and after completion of work	1		
	13.14 state reasons for carrying out checks to confirm that work being undertaken conforms to given instructions			

	13.15 state the importance of knowing when to carry out remedial work, within limits of own authority			
	13.16 state the importance of recognising the needs of other trades when erecting masonry structures			
	13.17 explain why work needs to be confirmed as accurate and meets industrial and organisational standards			
14.01a Form openings in cavity walling	14.01 identify methods of cutting and preparing components	1	4	6.6
	14.02 describe methods used to maintain industrial standards when erecting brickwork and blockwork walling			
	14.03 state methods of forming openings in masonry walling			
14.01b Form openings in cavity walling	14.04 describe methods of bridging openings with steel and concrete lintels	1		
	14.05 describe methods of providing brick and proprietary cills			
	14.06 identify methods used to set out and build semi-circular and segmental rough ring arches to bridge openings			
14.01c Form openings in cavity walling	14.07 identify safe working practices when erecting cavity walling at height	1		
	14.08 state the types, uses and limitations of jointing/pointing			
	14.09 state the purpose of protecting work and surrounding areas from damage arising from work activities			
14.01d Form openings in cavity walling	14.10 state reasons for carrying out checks to confirm that work being undertaken conforms to given instructions	1		

	14.11 state the importance of knowing when to carry out remedial work, within limits of own authority			
15.01a Interpret information, to establish setting out requirements	15.01 describe the type of drawings and conventions commonly used	1	2	3.3
	15.02 describe the purpose of different types of drawing			
	15.03 state scales commonly applied to drawing			
15.01b Interpret information, to establish setting out requirements	15.04 describe methods of reading and taking measurements from drawings	1		
	15.05 describe methods of reporting inaccuracies in information sources			
	15.06 state the purpose of using datum in setting out work			
16.01a Prepare construction sites for setting out activities	16.01 identify the resources required for carrying out site clearance activities	1	2	3.3
	16.02 state the reasons for site clearance, before setting out activities commence			
16.01b Prepare construction sites for setting out activities	16.03 state the reasons for locating and isolating existing services	1		
	16.04 state the methods used to locate and isolate existing services			
	16.05 state the reasons for the reclamation of materials			
17.01a Select resources for setting out work	17.01 identify the resources required for carrying out setting out activities	1	2	3.3
	17.02 identify the resources required for transferring levels			
17.01b Select resources for setting out work	17.03 identify ways of carrying out checks on resources used for levelling	1		

	17.04 select appropriate calculations using correct formulae related to setting out processes			
18.01a Set out regular shaped masonry structures on level ground	18.01 state importance of setting out building in correct location	1	3	5
	18.02 state purpose and importance of the building line			
	18.03 identify methods used for setting out right angled corners			
	18.04 describe the importance of dimensional accuracy			
18.01b Set out regular shaped masonry structures on level ground	18.05 identify methods used to transfer levels	1		
	18.06 describe the care and maintenance of optical equipment			
	18.07 state reasons for and uses of, single wall and corner type profiles			
	18.08 describe methods of locating walling and trench positions onto single wall and corner type profiles			
	18.09 state reasons for allowing working space between profiles and excavation			
18.01c Set out regular shaped masonry structures on level ground	18.10 state purpose of datum heights	1		
	18.11 explain the importance of protecting setting out work			
	18.12 explain how setting out information is transferred onto foundation concrete			
	18.13 describe methods of overcoming setting out problems			
19.01a Construct buildings using thin joint blockwork to	19.01 produce a checklist of resources required to carry out construction process	1	3	5

required specification	19.02 select methods of construction suitable to achieve the required specification			
	19.03 identify method of positioning components, ready for use			
	19.04 identify location of positioning components, ready for use			
	19.05 select materials required for producing mortars or specified jointing compound			
	19.06 identify methods used to mix mortar and jointing compound by mechanical means			
19.01b Construct buildings using thin joint blockwork to required specification	19.07 identify methods of cutting components by hand or mechanical means	1		
	19.08 identify relevant safety standards and carry out risk assessments relevant to the task			
	19.09 state purpose of protecting materials, completed work and surrounding areas from damage			
	19.10 describe methods for the provision of damp proof barriers			
	19.11 describe method of establishing bonding arrangements for blockwork			
	19.12 describe methods used to maintain industrial standards when erecting block walling			
19.01c Construct buildings using thin joint blockwork to required specification	19.13 state methods of forming openings in walling	1		
	19.14 state method for the provision of cavity trays where cavity has been bridged			
	19.15 describe methods used, for the provision of insulation requirements for walling			

	19.16 describe reasons for the use of reinforcement in walling			
	19.17 describe reasons for and positioning of, vertical movement joints			
20.01a Construct masonry for use with timber framed buildings to required specification	20.01 produce a checklist of resources required to carry out construction process	1	2	3.3
	20.02 identify method of positioning components, ready for use			
	20.03 identify methods of cutting components by hand or mechanical means			
	20.04 identify relevant safety standards and safety procedures			
	20.05 state purpose of protecting materials, completed work and surrounding areas from damage			
20.01b Construct masonry for use with timber framed buildings to required specification	20.06 describe methods for the provision of damp proof barriers	1		
	20.07 describe methods used to maintain industrial standards when erecting block walling.			
	20.08 state methods of forming openings in walling			
	20.09 state method for the provision of cavity trays where cavity has been bridged			
	20.10 describe methods used, for the provision of insulation requirements for walling			
	20.11 describe reasons for and positioning of, vertical movement joints			
21.01a Construct masonry for use with concrete and	21.01 produce a checklist of resources required to carry out construction process	1	2	3.3

steel framed buildings to required specification	21.02 select methods of construction suitable to achieve the required specification			
	21.03 identify method of positioning components, ready for use			
	21.04 identify methods of cutting components by hand or mechanical means			
	21.05 identify relevant safety standards and safety procedures			
	21.06 state purpose of protecting materials, completed work and surrounding areas from damage			
21.01b Construct masonry for use with concrete and steel framed buildings to required specification	21.07 describe methods for the provision of damp proof barriers	1		
	21.08 describe method of establishing bonding arrangements			
	21.09 describe methods used to maintain industrial standards when erecting block walling			
	21.10 State methods of forming openings in walling			
	21.11 state method for the provision of cavity trays where cavity has been bridged			
	21.12 describe methods used, for the provision of insulation requirements for walling			
	21.13 describe reasons for and positioning of, vertical movement joints			
22.01 Plan and select resources for practical tasks	22.01 describe the type of drawings and conventions commonly used	1	1	1.6
	22.02 describe the purpose of different types of drawing			
	22.03 state scales commonly applied to drawing			

	22.04 describe methods of interpreting measurements from drawings			
	22.05 describe methods of reporting inaccuracies in information sources.			
	22.06 identify the resources required for carrying out garden walling, isolated and attached piers			
	22.07 describe calculations and formulae required for identifying quantities of materials, components and fixings			
	22.08 identify tools and equipment required for building garden walling, isolated and attached piers			
	22.09 state the reasons for checking datum heights at corner positions			
23.01a Erect garden walling to required specification	23.01 identify location of bricks, blocks and other components, ready for use	1	3	5
	23.02 identify methods of transferring walling positions onto foundation concrete			
	23.03 state methods of providing foundations to walling			
	23.04 state methods used to construct walling to given datum heights			
	23.05 describe methods for the provision of damp proof barriers			
	23.06 describe method of establishing face bonds including use of broken bond			
23.01b Erect garden walling to required specification	23.07 describe methods used to maintain industrial standards when erecting garden walling	1		
	23.08 describe methods of providing decorative features to masonry walling			

	23.09 describe reasons for the use of brick reinforcement in masonry walling			
	23.10 state techniques used to provide coping to masonry walling			
	23.11 state the types, uses and limitations of jointing			
23.01c Erect garden walling to required specification	23.12 identify relevant safety procedures and safety standards	1		
	23.13 state purpose of protecting surrounding areas from damage arising from work activities			
	23.14 identify methods of protecting work and surrounding areas from damage			
	23.15 state reasons for carrying our regular checks to confirm that work being undertaken, conforms to working drawing			
	23.16 state the importance of knowing when to carry out remedial work, within limits of own authority			
	23.17 explain why work needs to be confirmed as accurate and meets industrial standards			
24.01a Erect , isolated and attached piers to required specification	24.01 identify methods of transferring walling positions onto foundation concrete	1	2	3.3
	24.02 state methods of providing foundations to walling			
	24.03 state methods used to construct walling to given datum heights			
	24.04 describe methods for the provision of damp proof barriers			
	24.05 describe method of establishing face bonds for isolated and attached piers			

	24.06 state the methods used to construct attached and isolated piers			
	24.07 describe methods used to maintain industrial standards when erecting isolated and attached piers			
	24.08 state methods of building in/fixing gate hooks to isolated or attached piers			
24.01b Erect , isolated and attached piers to required specification	24.09 identify/describe methods of providing decorative features to masonry walling	1		
	24.10 state methods/techniques used to provide capping to top of masonry walling			
	24.11 identify relevant safety procedures and safety standards			
	24.12 state purpose of protecting surrounding areas from damage arising from work activities			
	24.13 identify methods of protecting surrounding areas from damage			
	24.14 state methods to protect work under construction and after completion			
	24.15 state reasons for carrying our regular checks to confirm that work being undertaken, conforms to working drawing/specification			
	24.16 state the importance of knowing when to carry out remedial work, within limits of own authority			
TOTAL		33	33	55

Paper: **6314-205** Paper title: **Bench Joinery**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total number of Qs	%
12.01a Set up fixed and transportable circular saws	12.01 describe the current legislation that applies to fixed and transportable circular saws	1	6	10
12.01b Set up fixed and transportable circular saws	12.02 list potential hazards	1		
	12.03 describe the procedure to be taken upon identification of hazards or faults			
12.01c Set up fixed and transportable circular saws	12.04 describe the methods for dust extraction on circular saws	1		
12.01d Set up fixed and transportable circular saws	12.05 state the importance for dust extraction on circular saws	1		
12.01e Set up fixed and transportable circular saws	12.06 identify the components of a circular saw	1		
12.01f Set up fixed and transportable circular saws	12.07 identify the sawing safety aids used in conjunction with circular saws	1		
13.01a Change saw blades	13.01 describe safe methods of changing saw blades on fixed and transportable saws	1	6	10
13.01b Change saw blades	13.02 describe the current legislation for changing saw blades including peripheral speeds	1		

13.01c Change saw blades	13.03 state the hazards caused by incorrectly fitting saw blades	1		
13.01d Change saw blades	13.04 identify the types of saw blades and describe their uses	1		
13.01e Change saw blades	13.05 identify the parts of a circular saw blade	1		
13.01f Change saw blades	13.06 describe the effects of timber and sheet material on circular saw blades	1		
	13.07 describe the use of lubricant and its purpose			
14.01a Cut timber and sheet material	14.01 describe methods of timber conversion	1	3	5
14.01b Cut timber and sheet material	14.02 describe defects found in timber	1		
14.01c Cut timber and sheet material	14.03 describe the current legislation applicable to operating fixed and transportable circular saws	1		
15.01a Interpret information for setting out	15.01 explain the types of information used for setting out bench joinery and site carpentry	1	3	5
15.01b Interpret information for setting out	15.02 describe the use of scales	1		
15.01c Interpret information for setting out	15.03 describe how to check information for accuracy and conformity	1		
	15.04 explain the importance of recording discrepancies and reporting them to a supervisor before commencing work			

16.01a Select resources for setting out	16.01 describe the properties of materials	1	4	6.6
16.01b Select resources for setting out	16.02 identify various defects found in materials	1		
16.01c Select resources for setting out	16.03 state standard available sizes of materials	1		
16.01d Select resources for setting out	16.04 state the importance of proper maintenance of marking out tools	1		
17.01a Set out for bench joinery	17.01 identify the correct marking out tools for the setting out task	1	3	5
17.01b Set out for bench joinery	17.02 explain the importance of deadlines	1		
17.01c Set out for bench joinery	17.03 explain the procedures for organising work in the correct sequence 17.04 explain the uses and proportions of different joints	1		
18.01 Produce marking out efficiently	18.01 explain how delays when marking out can effect the overall programme of work 18.02 explain the effect of errors when marking out on the overall programme of work	1	1	1.6
19.01a Produce accurate marking out	19.01 explain the use of rods and marking out information	1	2	3.3
19.01b Produce accurate marking out	19.01 explain the use of rods and marking out information	1		

20.01a Select correct materials	20.01 explain characteristics of timber and materials	1	3	5
20.01b Select correct materials	20.02 explain the use of tools available for the job	1		
20.01c Select correct materials	20.02 explain the use of tools available for the job	1		
21.01a Manufacture joinery	21.01 explain why programmes of work are important	1	2	3.3
21.01b Manufacture joinery	21.02 explain why efficient methods of work are important	1		
	TOTAL	33	33	55

Paper: **6314-206** Paper title: **Shopfitting Bench Joinery**

Length of test: **90 minutes** Number of questions: **60**

Outcome	Knowledge Criteria	Number of questions for test	Total Number of Qs	%
12.01a Set up fixed and transportable circular saws	12.01 Describe the current legislation that applies to fixed and transportable circular saws	1	6	10
12.01b Set up fixed and transportable circular saws	12.02 list potential hazards	1		
	12.03 describe the procedure to be taken upon identification of hazards			
12.01c Set up fixed and transportable circular saws	12.04 describe the methods for dust extraction on circular saws	1		
	12.05 state the importance for dust extraction on circular saws			
12.01d Set up fixed and transportable circular saws	12.06 identify the components of a circular saw	1		
12.01e Set up fixed and transportable circular saws	12.06 identify the components of a circular saw	1		
12.01f Set up fixed and transportable circular saws	12.07 identify the sawing safety aids used in conjunction saws	1		
13.01a Change saw blades	13.01 describe safe methods of changing	1	6	10

	saw blades on fixed and transportable saws			
13.01b Change saw blades	13.02 describe the current legislation for changing saw blades including peripheral speeds	1		
13.01c Change saw blades	13.03 state the hazards caused by incorrectly fitting saw blades	1		
13.01d Change saw blades	13.04 identify the types of saw blades and describe their uses	1		
13.01e Change saw blades	13.05 identify the parts of a circular saw blade	1		
13.01f Change saw blades	13.06 describe the effects of timber and sheet material on circular saw blades	1		
	13.07 describe the use of lubricant and its purpose			
14.01a Cut timber and sheet material	14.01 describe methods of timber conversion	1	3	5
14.01b Cut timber and sheet material	14.02 describe defects found in timber	1		
14.01c Cut timber and sheet material	14.01 describe methods of timber conversion	1		
15.01a Interpret information for setting out	15.01 explain the types of information used for setting out bench joinery and site carpentry	1	3	5
15.01b Interpret information for setting out	15.02 describe the use of scales	1		
	15.03 describe how to check information for accuracy and conformity			

15.01c Interpret information for setting out	15.02 describe the use of scales	1		
	15.03 describe how to check information for accuracy and conformity			
16.01a Select resources for setting out	16.01 describe the properties of materials	1	4	6.6
16.01b Select resources for setting out	16.02 identify various defects found in materials	1		
16.01c Select resources for setting out	16.03 state standard available sizes of materials	1		
16.01d Select resources for setting out	16.04 state the importance of proper maintenance of marking out tools.	1		
17.01a Set out for bench joinery	17.01 identify the correct marking out tools for the setting out task	1	3	5
	17.02 explain the importance of deadlines			
17.01b Set out for bench joinery	17.01 identify the correct marking out tools for the setting out task	1		
	17.02 explain the importance of deadlines			
17.01c Set out for bench joinery	17.03 explain the procedures for organising work in the correct sequence	1		
	17.04 explain the uses and proportions of different joints			

18.01 Produce marking out efficiently	18.01 explain how delays when marking out can effect the overall programme of work	1	1	1.6
	18.02 explain the effect of errors when marking out on the overall programme			
19.01a Produce accurate marking out	19.01 explain the use of rods and marking out information	1	2	3.3
19.01b Produce accurate marking out	19.01 explain the use of rods and marking out information	1		
20.01a Select correct materials	20.01 explain characteristics of timber and materials	1	3	5
20.01b Select correct materials	20.02 explain the use of tools available for the job	1		
20.01c Select correct materials	20.01 explain characteristics of timber and materials	1		
21.01a Manufacture joinery	21.01 explain why programmes of work are important	1	2	3.3
21.01b Manufacture joinery	21.02 explain why efficient methods of work are important	1		
	TOTAL	33	33	55

Paper: **6314-207** Paper title: **Roof Slating and Tiling**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total number of Qs	%
13.01a Install full and cut single lap tiles and slates to abutments and openings	13.01 Explain the requirements for cuts at abutments for single lap tiles and slates	1	1	1.6
	13.02 Describe what wind resistant fixings are used at abutments and openings			
	13.03 Explain the reason for checking the product line to abutments and openings			
14.01a Install single lap tiles and slates to verges	14.01 select suitable tools and materials	1	1	1.6
	14.02 install single lap tiles to mortar finish			
	14.03 install single lap slates to mortar finish			
	14.04 install single lap tiles to dry verge finish using ‘plastic’ system			
	14.05 install single lap slates to dry verge finish using ‘plastic’ system			
	14.06 install single lap tiles to dry verge using ‘cloaked’ verge system			
15.01a Cut and secure single lap tiles and slates to valley openings	15.01 select suitable tools and materials	1	2	3.3
	15.02 cut and secure single lap tiles to an open valley			

	15.03 cut and secure single lap slates to an open valley			
15.01b Cut and secure single lap tiles and slates to valley openings	15.04 install fixings to cuts in valley	1		
	15.05 bed and point valley			
	15.06 cut and position single lap tiles and slates to a dry valley system			
16.01a Cut and secure single lap tiles and slates to hip finishes	16.01 explain the marking position for the cut tiles and slates in relation to the hip.	1	1	1.6
	16.02 describe the methods used to form hip ridges at eaves and ‘3- way mitres’			
	16.03 describe the use of wider slates to a hip			
	16.04 describe the types of fixings used to secure cuts to a hip			
	16.05 explain how to bed and point hip ridges to single lap tiles and slates			
	16.06 explain the importance of installing dry hip systems to tiles and slates in line with manufacturers’ instructions			
17.01a Install and secure ridge tiles to single lap tiles and slates	17.01 explain the setting out process for single lap tiles and slates to the ridge line	1	1	1.6
	17.02 describe the mortar formation to ridges when wet bedding			
	17.03 explain the location and reason for additional fixings to wet bedding ridges			

	17.04 describe the various types of dry fix ridge system			
	17.05 describe the installation process for dry fixed ridge systems			
	17.06 describe the various methods of finishing ends of ridges			
19.01a Install full and cut plain tiles to abutments, openings and verges	19.01 explain in sequence the order for installation of plain tiles at abutments	1	1	1.6
	19.02 describe the types of weathering units that can be used at openings			
	19.03 explain the types of verge bedded system that can be used for plain tiles			
	19.04 state the methods that can be used to form a plain tile verge			
20.01a Cut and secure plain tiles to valley openings	20.01 describe the batten formation to receive plain tiles to various valley types	1	2	3.3
	20.02 explain the cut formation used to finish tiles next to valley tiles			
	20.03 describe the installation process used to form open valley cuts to keep the required side- lap.			
20.01b Cut and secure plain tiles to valley openings	20.04 explain the installation used when forming plain tile open valleys to different liners.	1		
	20.05 state the materials used to form a mitred valley and describe the formula used			

	20.06 explain the terms side-lap and ‘backing on’ when forming plain tile valleys			
22.01a Install and secure ridge tiles to plain tiles	22.01 explain the top edge batten position for both clay and concrete plain tiles	1	1	1.6
	22.02 explain the requirements for securing top edge eaves and the systems used			
	22.03 describe the mortar mix and formation to receive ridge tiles			
	22.04 explain the air- flow requirements for top edge dry ventilated ridge systems			
23.01a Install plain tiles to vertical surfaces	23.01 explain the gauge required for vertical surfaces for plain tiles	1	2	3.3
	23.02 explain the requirements for double ‘kick’ batten to all eaves lines			
	23.03 describe ‘tracing through’ and side-lap requirements to vertical angles			
23.01b Install plain tiles to vertical surfaces	23.04 describe the formation of winchester cutting to gable ends	1		
	23.05 explain the different types of vertical feature tiles			
	23.06 explain the limitations of using vertical feature tiles			

	23.07 explain the difference between the installation of plain tiles at vertical abutments and verges to installing them in the same areas on pitched surfaces			
26.01a Install natural slates to verges	26.01 describe the installation sequence for bedded verges	1	1	1.6
	26.02 explain the finish given to the mortar for natural slates			
	26.03 describe how to form a dry verge with natural slates			
	26.04 state the minimum requirements for fixings and slate width to verges			
	26.05 describe the grading and sorting process for this area of roof			
27.01a Cut and secure natural slates to valley openings	27.01 explain the side lap requirements to cut natural slates in valleys.	1	1	1.6
	27.02 State the types of valley lining used at open valleys with natural slates			
	27.03 Explain the finishes used at eaves and ridge junctions with natural slate valleys			
	27.04 Describe the grading and sorting process for this area of roof.			
28.01a Cut and secure natural slates to hip finishes	28.01 explain the cutting formation of natural slates to bedded or dry hip finishes	1	2	3.3
	28.02 describe the installation of wet bedded hip ridges to natural slates			

	28.03 explain the side lap and slate securing methods required on wet bedded and dry hip ridge systems			
28.01b Cut and secure natural slates to hip finishes	28.04 explain the formations used to eaves and ridge junctions with natural slates at hips	1		
	28.05 describe the grading and sorting process for this area			
29.01a Install and secure ridge tiles to natural slates	29.01 explain the top edge batten requirements for natural slates	1	1	1.6
	29.02 explain the requirements for preventing up- lift of the top slate			
30.01a Implement access methods for stripping and reclaiming roof products	30.01 explain the requirements for access ladders when stripping and reclaiming roof materials	1	2	3.3
	30.02 describe systems used to prevent materials stripped from falling off roof slope			
	30.03 explain the use of hoists and bumpers for reclaiming stripped materials			
30.01b Implement access methods for stripping and reclaiming roof products	30.04 explain the set up and use of rubbish chutes for reclaiming materials	1		
31.01a Implement roof protection methods for stripping roof area's	31.01 explain the essential reasons for temporary sheeting to stripped roof area's	1	1	1.6
	31.02 describe how 'fly' battens can be installed to stripped roof area's			

	31.03 describe situations where holding battens may be used to stripped junctions			
33.01a Remove and reclaim/dispose of single- lap roof slates and tiles	33.01 explain the techniques used to clean and dress reclaimed materials	1	1	1.6
	33.02 describe how tools can be used to determine sound and faulty reclaimed materials			
	33.03 explain the required health and safety methods used in the disposal of identified single lap tiles			
35.01a Remove and reclaim/dispose of regular sized natural slates	35.01 describe the methods of determining asbestos content in removing artificial slates	1	2	3.3
	35.02 explain the required health and safety methods used in the disposal of identified artificial slates with asbestos content			
35.01b Remove and reclaim/dispose of regular sized natural slates	35.03 explain the techniques used to clean and dress reclaimed materials	1		
	35.04 describe how tools can be used to determine sound and faulty reclaimed materials			
	35.05 explain the required health and safety methods used in the disposal of identified natural slates			
36.01a Cut, form and install eaves ventilation systems and fire-stops	36.01 state the different types of materials used to form fire-stops	1	1	1.6
	36.02 describe the position of fire-stop materials when installing			
	36.03 explain the reasons for provision of eaves ventilation to roof areas			

	36.04 describe the reason for adjusting fascia board heights to eaves for ventilation systems			
	36.05 define locations and state the reasons for using felt supports and airflow control components used			
37.01a Set out to gauge and minimum laps, underlays, battens and counter battens	37.01 explain underlay formations to abutments and openings	1	1	1.6
	37.02 to comply with manufacturer and BS 5534 and 8000 part 6 recommendations explain up-stands and laps taping/sealing requirements			
	37.03 state the different types of underlay used in pitched roof and vertical formations			
	37.04 state when counter battens should be used			
	37.05 state the timber types and sizes of batten used to install tiles and slates in accordance with the BS 5534			
	37.06 explain the setting out processes for battens to junctions and at finishes			
	37.07 explain the requirements for cuts and nailing formations for battens to junctions and at finishes			
38.01a Prepare under-cloak and bedding to verges and install dry verge systems	38.01 describe the over- hang requirements for different types of tile and slate verge formation when using bedding materials	1	1	1.6
	38.02 list the components used to form a wet bedded verge for both tile and slate formations			

	38.03 give an explanation of the required mortar mix, slump and additional material retarders and/ or additives often used when mixing mortar			
	38.04 list the types of ancillary components required to secure tiles and slates to bedded verges as required by BS 8000: part 6 – workmanship			
	38.05 explain and interpret the required knowledge from manufacturers' instructions in relation to dry verge installation			
	38.06 explain what types of finish can be specified to form a dry verge in tiles and slates			
	38.07 list the components required to form one type of dry verge in tiles and slates			
39.01a Set out and secure valley liners and dry hip components to roof junctions	39.01 list the components required to form a dry and/or wet bedded background for receipt of tile and/ or slate formations	1	1	1.6
	39.02 explain the requirements for battens and timber formations needed for slates and tiles when using valley linings			
	39.03 explain the finished position on installation of underlays to dry and wet fix valley liners			
	39.04 list components that may be supplied by manufacturers of proprietary hip systems			

	39.05 explain how components effect the method used to form and fix the required finished tile and/ or slate formations to hips			
41.01a Install roof window to single and double lap products	41.01 explain how to unpack a roof window safely	1	1	1.6
	41.02 describe the types of information needed to install a roof window			
	41.03 state how to determine that the right flashing has been supplied for the window			
	41.04 explain how the flashings required can be different from single lap to double lap product types			
	41.05 describe the fixings required for both the roof window and the flashings			
42.01a Form and fix weatherproof membranes to abutments and openings	42.01 explain when a secret gutter may be used to abutments and openings	1	2	3.3
	42.02 describe the importance of eaves formation and drip requirements to receive GRP systems			
	42.03 describe the formation at the ridge with GRP systems			
42.01b Form and fix weatherproof membranes to abutments and openings	42.04 explain the benefits of using secret gutters	1		
	42.05 describe the formation of cover flashings and their purpose			
	42.06 describe alternative methods to using mortar to fill joints			
	42.07 explain when an alternative method of filling joints would be used			

43.01a Make weather- tight junctions using saddles, drips and flashings	43.01 explain why metal drips require supporting	1	1	1.6
	43.02 describe the materials used to support metal drips			
	43.03 identify why drips may be required at gutter and abutment junctions where metal flashings have been installed			
	43.04 describe the locations and inter-sections that may require the use of a saddle			
	43.05 explain the lap, welt and formation requirements for saddles			
	43.06 describe the requirement for using drips to proprietary valley liners at eaves			
44.01a Install ancillary weatherproof items to include lead slates	44.01 state the main dimensional requirements for the formation of lead slates	1	1	1.6
	44.02 explain how to determine the pitch of the roof for the required weathering			
	44.03 describe the occasions when duct work flashings may have to be fixed with slates and tiles			
47.01a Install front apron, side abutment and back- gutter flashing units to chimneys	47.01 describe the lap requirements and fixings used on apron flashings	1	1	1.6
	47.02 explain how the steps are formed for double lap abutment flashings			
	47.03 explain how the step and cover flashing is formed to single lap tiles at abutments			
	47.04 describe the main features for the formation of back- gutters			

	47.05 explain how the junction between flashings and chimney can be finished			
	TOTAL	33	33	55

Paper: **6314-208** Paper title: **Stonemasonry**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total number of Qs	%
12.01 Interpret information to produce standard templets and moulds	12.01 identify types of information used in stonemasonry 12.02 explain the reason for not directly scaling unmarked distances on a drawing 12.03 state the person to whom reports of inaccuracies in information sources should be made 12.04 state who should be informed when the work is complete	1	1	1.6
13.01a Set out the work full size using standard drawing conventions	13.01 distinguish between Greek and Roman mouldings 13.02 describe the terminology relating to the arch	1	3	5.0
13.01b Set out the work full size using standard drawing conventions	13.03 explain how the arch is formed 13.04 identify traditional masonry features	1		
13.01c Set out the work full size using standard drawing conventions	13.05 identify standard templet types commonly used in industry 13.06 define categories of stonemasonry work	1		

14.01a Produce standard templets and moulds and apply standard information	14.01 describe standard tools used to prepare templets 14.02 describe the selection of resources to produce standard templets and moulds 14.03 describe the characteristics of materials used for templets	1	4	6.6
14.01b Produce standard templets and moulds and apply standard information	14.04 explain the application of ‘lines up, lines down’ in relation to the project information 14.05 describe methods to check the accuracy of templets and moulds 14.06 explain the purpose of marking up and finishing templets and moulds	1		
14.01c Produce standard templets and moulds and apply standard information	14.07 describe common markings used on templets and moulds 14.08 describe how to store templets 14.09 describe method of cutting and shaping resources	1		
14.01d Produce standard templets and moulds and apply standard information	14.10 describe method of disposing of zinc waste 14.11 describe methods of providing protection from damage during operations	1		

15.01a Mechanically lift and transport resources	15.01 describe methods of transporting resources 15.02 describe the terms used in lifting operations 15.03 describe the types of lifting gear 15.04 describe the maintenance of lifting gear 15.05 describe standard methods of communication used during lifting operations	1	2	3.3
15.01b Mechanically lift and transport resources	15.06 explain the importance of protecting completed resources and the surrounding area during transportation 15.07 explain reasons for using bearers and stacking clear of the ground 15.08 describe common hazards encountered during lifting operations 15.09 identify which items of Personal Protective Equipment (PPE) must be worn when transporting stonemasonry resources	1		
16.01a Basic setting out for stonemasonry structures on level ground	16.01 Identify walling positions from information 16.02 describe methods of setting up levelling equipment 16.03 describe types of profiles 16.04 describe methods of marking wall and foundation positions on profiles	1	2	3.3

16.01b Basic setting out for stonemasonry structures on level ground	16.05 describe terminology used in setting out 16.06 describe the use of 3:4:5 rule 16.07 explain the reasons for reversing straight edge and spirit level during setting out	1		
17.01a Basic fixing methods for stonemasonry structures	17.01 explain the difference between jointing and pointing 17.02 describe method of raking back/cutting back existing for pointing 17.03 distinguish between types of backing materials 17.04 describe the purpose of foundations 17.05 describe the purpose of insulation 17.06 describe the purpose types of damp barriers and cavity trays 17.07 describe the method of maintaining clean cavity 17.08 describe common materials used in mortar mixes for natural stones 17.09 distinguish between types of walling 17.10 describe bonding methods	1	1	1.6

18.01 Measure and Set Out the work	18.01 describe the reason for identifying the natural bedding plane 18.02 explain the purpose of the job card 18.03 describe the tools used for measuring and marking out 18.04 describe the method of boning in to produce surface out of twist	1	1	1.6
19.01a Prepare and Shape the Stone	19.01 describe methods of transporting resources 19.02 explain the importance of protecting completed resources and the surrounding area 19.03 Describe the use of boning blocks to produce flat surfaces	1	2	3.3
19.01b Prepare and Shape the Stone	19.04 Describe the sequence of tools used to process components 19.05 Describe the purpose of surface areas	1		
20.01a Apply surface finishes	20.01 identify natural stones 20.02 identify remedial work and who should be informed when the work is complete 20.03 describe standard tools used to apply surface finishes	1	3	6.6
20.01b Apply surface finishes	20.04 describe the classification of rocks 20.05 describe specialist surface finishes	1		

20.01c Apply surface finishes	20.06 describe types of fixing provision 20.07 describe methods to check the accuracy of worked stones 20.08 explain the purpose of providing identification marks to completed work	1		
21.01a Apply standard templets and moulds to mark out work	21.01 identify templet types 21.02 describe types of resources used to check and mark out 21.03 explain the application of 'lines up, lines down' in relation to the project information	1	2	3.3
21.01b Apply standard templets and moulds to mark out work	21.04 explain the purpose of finishing templet materials to provide edges to specification 21.05 explain the purpose of providing identification marks to completed work 21.06 describe common markings used on templets and moulds	1		
22.01a Cut and shape basic stonemasonry components	22.01 identify remedial work and who should be informed when the work is complete 22.02 describe standard tools used to work straight mouldings	1	5	8.3
22.01b Cut and shape basic stonemasonry components	22.03 describe common joints used in stonemasonry	1		

22.01c Cut and shape basic stonemasonry components	22.04 Describe the method of producing mitre lines on profiled surfaces 22.05 Describe method of producing worked stones	1		
22.01d Cut and shape basic stonemasonry components	22.06 explain the application of ‘lines up, lines down’ in relation to the project information	1		
22.01e Cut and shape basic stonemasonry components	22.07 describe methods to check the accuracy of worked stones	1		
23.01a Apply standard templets and moulds to mark out work	23.01 identify templet types 23.02 describe types of resources used to check and mark out 23.03 explain the application of ‘lines up, lines down’ in relation to the project information	1	2	3.3
23.01b Apply standard templets and moulds to mark out work	23.04 explain the purpose of finishing templet materials to provide edges to specification 23.05 explain the purpose of providing identification marks to completed work 23.06 describe common markings used on templets and moulds	1		
24.01a Cut and shape stonemasonry components	24.01 identify remedial work and who should be informed when the work is complete 24.02 describe standard tools used to produce circular work	1	5	8.3

24.01b Cut and shape stonemasonry components	24.03 describe method of setting out circular work in plan 24.04 describe natural defects commonly found in stone	1		
24.01c Cut and shape stonemasonry components	24.05 describe common joints used in stonemasonry 24.06 identify traditional masonry features	1		
24.01d Cut and shape stonemasonry components	24.07 explain the application of 'lines up, lines down' for circular work 24.08 describe methods to check the accuracy of circular work	1		
24.01e Cut and shape stonemasonry components	24.09 explain the purpose of providing identification marks to completed work	1		
	TOTAL	33	33	55

Paper: **6314-209** Paper title: **Construction & Civil Engineering**

Duration: **90 minutes** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total number of Qs	%
12.01a Know how to select resources for laying domestic drainage	12.01. describe how to calculate the required quantity and quality of materials and components, used for installing drainage work, including: plastic and clay foul and surface water drainage pipes; plastic, concrete, brick inspection chambers; fittings/connections and bedding materials	1	4	6.6
12.01b Know how to select resources for laying domestic drainage	12.02. describe types and purposes of hand tools, power tools and ancillary equipment used for installing drainage, including: shovels, laying/bedding tools, hand operated and powered pipe cutting equipment	1		
12.01c Know how to select resources for laying domestic drainage	12.03. describe how to interpret information sources to locate new and existing services, including: gas pipes, electric cables, water pipes, communication cables	1		
12.01d Know how to select resources for laying domestic drainage	12.04. describe the methods of checking for natural and environmental hazards, including: water tables and tree roots	1		
13.01a Know how to prepare ground and establish levels and gradients for installation of drainage work	13.01. describe methods of preparing ground, including: excavating ground, laying bedding materials to line and level, marking out drainage runs and falls	1	2	3.3

13.01b Know how to prepare ground and establish levels and gradients for installation of drainage work	13.02. describe methods of determining levels and gradients for drainage	1		
14.01a Know how to install and test drainage systems	14.01. describe methods of laying new drainage pipes to line and level, including: plastic, clay foul and surface water drainage pipes up to 150mm diameter	1	7	11.6
14.01b Know how to install and test drainage systems	14.02. describe methods used to install new drainage units/components to line and level, including: junctions, bends, channels	1		
14.01c Know how to install and test drainage systems	14.03. describe methods of breaking into existing drainage systems and correctly connecting new systems to existing pipe work	1		
14.01d Know how to install and test drainage systems	14.04. describe methods of placing and compacting pipe surround and backfill materials	1		
14.01e Know how to install and test drainage systems	14.05. describe methods of forming and constructing inspection chambers using pre-formed units, including: plastic and concrete 14.06. describe methods of constructing brick inspection chambers, including: benching work and bedding of inspection chamber frame and cover	1		
14.01f Know how to install and test drainage systems	14.07. state reasons for and methods of protecting work, resources and surrounding areas from damage arising from installation activities	1		

14.01g Know how to install and test drainage systems	14.08. describe methods of testing completed drainage systems, including : confirming falls are correct, joints are sealed and the system is constructed to specification and industrial standards (water and smoke tests)	1		
15.01a Know how to select resources for placing and finishing non-specialist concrete	15.01. describe methods of calculating quantities of resources required for the concreting work, including: areas, volumes, perimeters, percentages	1	3	5
15.01b Know how to select resources for placing and finishing non-specialist concrete	15.02. describe the types and purposes of materials and components used in the placing and finishing of concrete, including: aggregates, cement, additives, retaining items (ie edgings and basic formwork), reinforcement rods and matting and associated fixings and fittings	1		
15.01c Know how to select resources for placing and finishing non-specialist concrete	15.03. describe the types and purposes of hand tools, power tools and ancillary equipment used in concreting work, including: shovels, barrows, floating trowels, tampers-including powered tampers, vibrating pokers, brushes, steel cutters	1		
16.01a Know how to construct and secure basic formwork	16.01. describe the types and purposes of materials, tools and equipment required to construct, position and secure basic edging/formwork , including: for alignment, levels and movement during concreting	1	5	8.3
16.01b Know how to construct and secure basic formwork	16.02. describe methods used to establish alignment and levels	1		

16.01c Know how to construct and secure basic formwork	16.03. describe methods used for placing the concrete	1		
16.01d Know how to construct and secure basic formwork	16.04. describe methods used for constructing and securing basic edgings/formwork to receive concrete, including footings, oversite concrete and paths	1		
16.01e Know how to construct and secure basic formwork	16.05. describe methods used for constructing and securing basic edgings/formwork to receive concrete, including footings, oversite concrete and paths	1		
17.01a Know how to lay and finish concrete	17.01. describe types and purposes of materials, components, tools and equipment required to lay and finish concrete to specification	1	4	6.6
17.01b Know how to lay and finish concrete	17.02. describe methods used to lay and finish concrete to form footings to specification 17.03. describe methods used for placing and securing reinforcement matting to concrete slabs	1		
17.01c Know how to lay and finish concrete	17.04. describe methods to be used to lay and finish oversite concrete , including: tamped, floated, brushed and trowelled 17.05. describe the methods used to lay and finish concrete to form paths	1		
17.01d Know how to lay and finish concrete	17.06. explain the importance of protecting the work, resources and surrounding areas from damage arising from concreting 17.07. describe methods of protecting concrete from contamination (using curing methods appropriate to climatic conditions) including: polythene sheeting, Hessian and curing compounds	1		

18.01a Know how to install protection and safety equipment	18.01. describe the types and purposes of protection and safety equipment and materials including: signs, lighting, safety and security barriers, protection and safety notices and temporary structures 18.02. describe the types and purposes of hand tools, power tools and ancillary equipment used to construct, assemble and position protection and security materials	1	7	11.6
18.01b Know how to install protection and safety equipment	18.03. describe how to plan for installing and setting out protection and safety arrangements	1		
18.01c Know how to install protection and safety equipment	18.04. describe methods of setting out and positioning signing, lighting and guarding arrangements, including progress signs, warning signs, barriers/temporary structures, flashing beacons	1		
18.01d Know how to install protection and safety equipment	18.05. describe the checks to be carried out upon completion of the installation of protection and safety equipment, including: spacing of lighting, appropriate positioning of signs and notices, stability of barriers and/or temporary structures 18.06. describe how to deal with typical problems and damage which can occur during installation of protection and safety equipment	1		
18.01e Know how to install protection and safety equipment	18.07. describe how and to whom problems should be reported	1		

18.01f Know how to install protection and safety equipment	18.08. describe situations which could require selection of additional, or replacement protection and safety equipment	1		
18.01g Know how to install protection and safety equipment	18.09. explain the functions of installing protection, including: to protect work, staff, the public and surrounding environment	1		
19.01a Know how to remove protection and safety equipment	19.01. describe methods used to dismantle and remove protection and safety equipment from the work area	1	1	1.6
	19.02. describe methods of reporting missing or damaged protection and safety equipment			
	TOTAL	33	33	55

Paper: **6314-210** Paper title: **Craft Masonry**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total number of Qs	%
12.01 Know how to interpret information to establish setting out requirements for masonry structures	12.01 Describe the type of drawings and conventions commonly used in masonry	1	1	1.6
	12.02 Describe the purpose of different types of drawings including: location, assembly, component			
	12.03 State scales commonly applied to drawings including site, block, floor, elevations			
	12.04 Describe methods of reading and taking measurements from drawings			
	12.05 Explain the purpose of using datum in setting out work			
13.01 Know how to select resources for setting out work	13.01 Identify the resources required for setting out activities, including : timber for pegs and profiles, builders square, tapes, ranging lines, straight edge, hand tools	1	1	1.6
	13.02 Identify the resources required for transferring levels, including spirit, optical and laser levels			
	13.03 Describe checks to be conducted during levelling, including: accuracy and maintenance of equipment			
	13.04 Describe how to use formulae setting out calculations, including: for angles, perimeters, areas, diagonals			
14.01 Know how to set out regular shaped masonry structures	14.01 State importance of setting out building in correct location	1	1	1.6
	14.02 Describe the purpose and importance of the building line			

	14.03 Describe methods used for setting out right angled corners			
	14.04 Describe the importance of dimensional accuracy			
	14.05 Describe methods used to transfer levels			
	14.06 Describe methods of locating walling and trench positions onto single wall and corner type profiles			
	14.07 State reasons for allowing working space between profiles and excavation			
	14.08 Explain how setting out information is transferred onto foundation concrete			
	14.09 Describe methods of overcoming setting out problems			
15.01a Select resources for solid wall construction	15.01 Describe the types and purposes of resources required for carrying out solid walling, isolated and attached piers	1	2	3.3
15.01b Select resources for solid wall construction	15.02 Identify types and purposes of tools and equipment required for building solid walling, isolated and attached piers	1		
	15.03 State the reasons for checking datum heights at corner positions			
16.01a Erect solid walling to required specification	16.01 Describe methods of transferring walling positions onto foundation concrete	1	7	11.6
	16.02 Describe methods of providing foundations to walling including: strip concrete, brick footings			
16.01b Erect solid walling to required specification	16.03 Describe methods for the provision of damp proof barriers Including: dpc, dpm, cement based tanking	1		

16.01c Erect solid walling to required specification	16.04 Describe techniques used to provide coping to masonry walling	1		
16.01d Erect solid walling to required specification	16.05 Describe the types, uses and limitations of jointing Including: half round, weather struck, recessed, flush	1		
16.01e Erect solid walling to required specification	16.06 Explain the importance of protecting work and surrounding areas from damage arising from work activities	1		
16.01f Erect solid walling to required specification	16.07 Explain reasons for carrying our regular checks to confirm that work being undertaken, conforms to working drawing	1		
16.01g Erect solid walling to required specification	16.08 Explain why work needs to be confirmed as accurate and meets industrial standards	1		
17.01 Erect isolated and attached piers to required specification	17.01 Describe when to use different methods of transferring walling positions onto foundation concrete	1	1	1.6
	17.02 Describe methods used to construct walling to given datum heights			
	17.03 Describe methods used to maintain industrial standards when erecting isolated and attached piers including working to industrial standards			
	17.04 Describe techniques used to provide capping to top of masonry walling			
18.01 Know how to select resources for cavity wall	18.01 Describe the types, characteristics and purposes of resources required for carrying out types of cavity walling	1	1	1.6

construction	18.02 Describe the reasons for checking datum heights at corner positions			
	18.03 Identify types and purposes of tools, components and equipment required for cavity walling			
	18.04 Describe risks involved in selecting and handling walling materials and components			
19.01a Erect cavity walling to required specification	19.01 Describe methods of cutting and preparing component types	1	2	3.3
	19.02 Describe methods used when constructing cavity walls including: provision of service entry and damp proof course. establishing face bonds, provision of insulation requirements . reasons for, and positioning of, vertical movement joints, wall ties, weep vents			
	19.03 Describe the importance of safe working practices when erecting cavity walling at height			
19.01b Erect cavity walling to required specification	19.04 State recommended heights of walling constructed at any one time	1		
	19.05 Describe the types, uses and limitations of jointing and pointing			
	19.06 Explain the importance of protecting work and surrounding areas from damage during and after completion of work			
20.01 Know how to form openings in cavity walling	20.01 Describe different methods of cutting and preparing components	1	1	1.6
	20.02 Describe methods used to maintain industrial standards when erecting brickwork and blockwork walling			
	20.03 Describe methods of forming openings in masonry walling			
	20.04 Describe methods of bridging openings with steel and concrete lintels			

	20.05 Describe methods of providing slate/tile and proprietary cills			
21.01 Know how to select materials required for plastering and rendering surfaces	21.01 Explain how to select appropriate materials for the task	1	1	1.6
	21.02 Describe how to calculate the quantities of materials, including using formulae for areas, perimeters ,volumes			
22.01a Know how to select tools and equipment for plastering and rendering work	22.01 Describe the purposes and uses of tools, including: types of trowels and floats, hawk. rule, scratcher, darby	1	3	5.0
	22.02 Identify equipment used for mixing mortars and plasters. Including petrol and electric mixers, hand mixer, drill, whisk			
22.01b Know how to select tools and equipment for plastering and rendering work	22.03 Describe the methods of mixing different plasters and renders , including mix proportions and timings, hand mixing ,machine mixing	1		
22.01c Know how to select tools and equipment for plastering and rendering work	22.04 Identify the hazards related to mixing, including: dust inhalation, skin diseases	1		
23.01a Know how to prepare surfaces for application of render and plaster	23.01 Describe methods of removing defective plaster/render including: use of hand tools and power tools	1	2	3.3
	23.02 Describe methods of reducing suction using sealants and adhesives, forming a key between coats			
	23.03 Identify methods of fixing plasterboards and plaster laths including nails, screws, and proprietaries.			

23.01b Know how to prepare surfaces for application of render and plaster	23.04 Describe the purpose of scrim and tape in the preparation process	1		
	23.05 Explain the purpose of fixing and positioning beads and trims			
24.01 Know how to apply and finish plaster and render	24.01 Describe the application methods for renders and plasters including : manual and machine	1	1	1.6
	24.02 Identify the procedures for maintaining plumb, level, line and square			
	24.03 Identify methods of overcoming finishing problems			
	24.04 Describe the purposes of protecting work, including: avoiding damage and cost			
25.01a Know how to remove existing battens, underlay and slates	25.01 Describe types and sizes and purposes of materials including, battens. underlay, soakers, cements and limes, types of concrete interlocking tiles, natural and manufactured slates	1	3	5.0
25.01b Know how to remove existing battens, underlay and slates	25.02 Explain the purpose of using fixings, including: copper rivets, clips, tingles, nail	1		
25.01c Know how to remove existing battens, underlay and slates	25.03 Explain how to determine soundness of slates for replacement	1		
26.01a Know how to replace new battons and underlay	26.01 Explain the purpose and correct positioning of underlays	1	2	3.3
26.01b Know how to replace new battons and underlay	26.02 Describe how to determine gauge treatment including at: eaves, verges, valleys, ridges, chimney stacks	1		

	26.03 Outline the importance of joint preparation for pointing and repointing			
27.01a Know how to replace slate/tiles and associated components	27.01 Describe the methods of fixing types of components, including: copper rivets, clips, tingles, nails(difference between centre and head nailing), soakers, flashings and roof ventilation (eaves vents, ridge vents slate vents)	1	2	3.3
27.01b Know how to replace slate/tiles and associated components	27.02 Explain methods of overcoming fixing problems	1		
28.01a Know how to remove and replace rainwater goods	28.01 Explain fixing methods(clips brackets, screws) for various types of gutterings and downpipes, including plastic, metal, lead	1	2	3.3
28.01b Know how to remove and replace rainwater goods	28.02 Explain the uses of different types of gutterings	1		
	TOTAL	33	33	55

Paper: **6314-211** Paper title: **Woodmachining**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total No of Qs	%
12.01a Know how to set up sawing machines	12.01 describe types, purposes and limitations of sawing machines, including: band re-saw, narrow band saw, hand fed circular rip saw, dimension/tilting arbour circular saw, radial arm cross cut saw	1	4	6.6
	12.02 explain the importance of checking the compatibility of sawing machines and materials			
12.01b Know how to set up sawing machines	12.03 explain the importance of checking materials for defects, including: knots, shakes, splits, cupping, bowing, rot, pith, blue stain, sap ducts, twist, worm infestation, case hardening	1		
	12.04 describe the methods used to check machinery and equipment for faults, including: damage, DIY repair, missing riving knife, badly fitting or missing guards, poor wiring, lack of maintenance, inadequate or blocked extraction, unsafe work area			
12.01c Know how to set up sawing machines	12.05 describe methods used to set up tooling, including: circular saw blades, bandsaw blades	1		
12.01d Know how to set up sawing machines	12.06 describe types and purposes of safety equipment including: fences, guards, push stick, push block, supports, autofeed, tables, wedges	1		
	12.07 Know how to use wood machines in accordance with ACoP and current legislation			
13.01 Know how to operate sawing machinery	13.01 describe methods of cutting materials to size and shape using machinery	1	1	1.6

	13.02 describe methods of finishing materials to size and shape using hand tools			
	13.03 describe the types and purposes of lubricants used during sawing operations			
	13.04 outline safety considerations when lifting heavy materials as part of a team			
14.01 Know how to maintain sawing machinery	14.01 describe maintenance checks which should be carried out on machinery, including: blades replaced or kept sharp, lubrication, correct tensions	1	1	1.6
	14.02 explain the importance of following correct maintenance reporting procedures			
	14.03 explain the importance of documenting maintenance work			
15.01a Know how to set up planning machines	15.01 describe types, purposes and limitations of planing machines, including: surface planer, thicknesser, four-sider planer and moulder	1	4	6.6
	15.02 explain the importance of checking the compatibility of planing machines and materials			
15.01b Know how to set up planning machines	15.03 explain the importance of checking materials for defects, including: knots, shakes, splits, cupping, bowing, rot, pith, blue stain, sap ducts, twist, worm infestation, case hardening	1		
	15.04 describe the methods used to check machinery and equipment for faults, including: damage, DIY repair, badly fitted or blunt cutters, badly fitted or missing guards, poor wiring, lack of maintenance, inadequate or blocked extraction, unsafe work area			

15.01c Know how to set up planning machines	15.05 describe methods used to set up tooling, including: types of blocks and cutters/knivers	1		
	15.06 describe types and purposes of safety equipment including: fences, guards, push stick, push blocks			
15.01d Know how to set up planning machines	15.07 Know how to use planing machines in accordance with ACoP and current legislation	1		
16.01 Know how to operate planning machinery	16.01 describe methods of cutting materials to size and shape using machinery, including: face and edge, square and to given angle, taking to width and thickness	1	1	1.6
	16.02 describe methods of finishing off materials to size and shape using appropriate hand tools			
	16.03 describe the types and purposes of lubricants used during planing operations			
	16.04 outline safety considerations when lifting heavy materials as part of a team			
17.01 Know how to maintain planning machinery	17.01 describe maintenance checks which should be carried out on machinery, including: blades replaced or kept sharp, cleaning of debris, sawdust and resin	1	1	1.6
	17.02 explain the importance of following correct maintenance reporting procedures			
	17.03 explain the importance of documenting maintenance work			
18.01a Know how to set up profiling machines	18.01 describe types, purposes and limitations of profiling machines, including: vertical spindle moulder, four sided planer and moulder, high speed router	1	4	6.6
	18.02 explain the importance of checking the compatibility of profiling machines and materials			

18.01b Know how to set up profiling machines	18.03 explain the importance of checking materials for defects, including: knots, shakes, splits, cupping, bowing, rot, pith, blue stain, sap ducts, twist, worm infestation, case hardening	1		
	18.04 describe the methods used to check machinery and equipment for faults, including: damage, DIY repair, badly fitted or blunt cutters, badly fitted or missing guards, poor wiring, lack of maintenance, inadequate or blocked extraction, unsafe work area			
18.01c Know how to set up profiling machines	18.05 describe methods used to set up tooling, including: types of block and cutters/knives, limiters	1		
	18.06 describe types and purposes of safety equipment including: fences, guards, push stick, push blocks			
18.01d Know how to set up profiling machines	18.07 Know how to use profiling machines in accordance with ACoP and current legislation	1		
19.01 Know how to operate profiling machinery	19.01 describe methods of cutting materials to size and shape using machinery, including: chamfer, ovolo, ogee, lambs tongue, rebates and grooves	1	1	1.6
	19.02 describe methods of finishing off materials to size and shape using appropriate hand tools			
	19.03 describe the types and purposes of lubricants used during profiling operations			
	19.04 outline safety considerations when lifting heavy materials as part of a team			

20.01 Know how to maintain profiling machinery	20.01 describe maintenance checks which should be carried out on machinery, including: blades and knives replaced or kept sharp, lubrication, cleaning of debris, sawdust and resin	1	1	1.6
	20.02 explain the importance of following correct maintenance reporting procedures			
	20.03 explain the importance of documenting maintenance work			
21.01a Know how to set up wood jointing machines	21.01 describe types, purposes and limitations of wood jointing machines, including: chisel, morticer, single end tenoner, vertical spindle moulder	1	4	6.6
	21.02 explain the importance of checking the compatibility of wood jointing machines and materials			
21.01b Know how to set up wood jointing machines	21.03 explain the importance of checking materials for defects, including: knots, shakes, splits, cupping, bowing, rot, pith, blue stain, sap ducts, twist, worm infestation, case hardening	1		
	21.04 describe the methods used to check machinery and equipment for faults, including: damage, DIY repair, badly fitted or blunt cutters, badly fitted or missing guards, poor wiring, lack of maintenance, inadequate or blocked extraction, unsafe work area			
21.01c Know how to set up wood jointing machines	21.05 describe methods used to set up tooling, including: including: types of block and cutters/knives, chisels, bits, morticer chains	1		
	21.06 describe types and purposes of safety equipment including: guards, fences, jigs, templates and safety aids			

21.01d Know how to set up wood jointing machines	21.07 Know how to use wood jointing machines in accordance with ACoP and current legislation	1		
22.01 Know how to operate wood jointing machinery	22.01 describe methods of jointing materials to size and shape using machinery, mortice, tenon, scribed mortice and tenon, stair sting housings	1	1	1.6
	22.02 describe methods of finishing off materials to size and shape using appropriate hand tools			
	22.03 describe the types and purposes of lubricants used during jointing operations			
	22.04 outline safety considerations when lifting heavy materials as part of a team			
23.01 Know how to maintain wood jointing machinery	23.01 describe maintenance checks which should be carried out on machinery, including: blades and knives replaced or kept sharp, lubrication, cleaning of debris, sawdust and resin	1	1	1.6
	23.02 explain the importance of following correct maintenance reporting procedures			
	23.03 explain the importance of documenting maintenance work			
24.01a Know how to set up for producing woodmachining tooling	24.01 describe types, purposes and limitations of grinding machinery for producing tooling, including: bench/pedestal grinder, profile grinder, universal grinder, universal saw grinder, straight knife grinder	1	4	6.6
	24.02 describe types, purposes and limitations of materials, components and equipment , including: setting up stands, balancing equipment, retaining and securing equipment, optical measuring devices			
24.01b Know how to set up for producing woodmachining tooling	24.03 describe methods of seting up equipment for producing tooling, including: dimensional control aids and hand tools	1		

24.01c Know how to set up for producing woodmachining tooling	24.04 describe how to check set up of grinding machinery , including: wheel is true and dress	1		
24.01d Know how to set up for producing woodmachining tooling	24.05 Know how to use machines in accordance with ACoP and current legislation	1		
25.01 Know how to produce woodmachining tooling	25.01 describe methods of producing straight knives using straight knife grinder	1	1	1.6
	25.02 describe methods of producing true moulding cutter shapes, templates and associated chip limiters			
	25.03 describe methods of developing cutter shapes, including: ogee, ovolo, chamfer and lambs tongue			
	25.04 describe methods of selecting and mounting cutters and knives into cutter block using appropriate equipment			
26.01a Know how to maintain woodmachining tooling	26.01 describe methods of maintaining sawblades and drills, including: sharpening and cleaning	1	3	5
	26.02 explain the importance of cleaning tooling prior to storage			
26.01b Know how to maintain woodmachining tooling	26.03 describe how to select safe storage for tooling, including: using:racks, boxes, other storage systems	1		
26.01c Know how to maintain woodmachining tooling	26.04 explain the importance of ensuring all parts put away in designated place	1		
	TOTAL	33	33	55

Paper: **6314-212** Paper title: **Highways**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total no of Qs	%
12.01a know how to read plans showing location of underground apparatus	12.01 Know how to check that the plans correspond to the site details	1	4	6.6
	12.02 Interpret symbols on plans accurately			
12.01b know how to read plans showing location of underground apparatus	12.03 Identify the types of services that you might encounter and how to identify them on the plans including: gas electric, communication, water sewage.	1		
12.01c know how to read plans showing location of underground apparatus	12.04 Explain how to apply information on the plans to the site	1		
	12.05 Describe why the site must be clearly marked and how to mark the site clearly			
12.01d know how to read plans showing location of underground apparatus	12.06 List the safe working practices to consider when locating and avoiding underground apparatus and services	1		
13.01a Know how to identify types of underground	13.01 Identify the different types of underground utility apparatus and highway services that could be encountered during excavation, and how to distinguish between them	1	1	1.6

apparatus encountered during excavation	13.02 List the safe working practices when identifying underground utility apparatus and highway services on site			
14.01a Know and identify the risks of, and implications of, damage to underground apparatus	14.01 Identify the factors to consider when assessing the risk of damage to underground utility apparatus and highway services	1	2	3.3
	14.04 Describe the risks of damage to tree roots and precautions to take			
	14.03 State the potential implications of damage to underground utility apparatus and highway services			
14.01b Know and identify the risks of, and implications of, damage to underground apparatus	14.02 Describe what constitutes a potential situation of risk of damage to underground utility apparatus and highway services	1		
	14.05 Explain how to plan to limit the effects of damage to underground utility apparatus and highway services			
	14.06 List the safe working practices for locating and avoiding underground utility apparatus and highway services			
15.01a Know how to use pipe and cable location equipment	15.01 Describe the capabilities and limitations of different equipment in locating different types of underground utility apparatus and highway services	1	2	3.3
	15.02 State how to ensure that the selected equipment is fit for purpose and how to prepare it for use			
	15.03 Explain how to use the selected pipe and cable location equipment			

	15.04 Know the risks associated with operating pipe and cable location equipment			
15.01b Know how to use pipe and cable location equipment	15.05 Interpret the results of search procedures accurately	1		
	15.06 Describe the conditions where pipe and cable tracing equipment may prove ineffective			
	15.07 Explain how to compare the results of a search with the information on site plans			
	15.08 List safe working practices for using pipe and cable location equipment			
16.01a Know the different footway and carriageway types and categories	16.01 List the physical characteristics of the main types of footway and carriageway	1	2	3.3
	16.02 State the characteristics of a high duty or high amenity footway, footpath or cycle track			
16.01b Know the different footway and carriageway types and categories	16.03 Distinguish between different types of footway and carriageway including: flexible, modular.	1		
	16.04 Identify the different construction layers within footways and carriageways and distinguish between them			
	16.05 Understand the category types referred to in specifications			
17.01a Know the most suitable working practices for excavating the highway	17.01 Select equipment that is suitable to the excavation operation	1	1	1.6
	17.02 Identify if equipment is fit for purpose			
	17.03 Interpret the specifications to follow when excavating trenches			

	17.04 Identify an area of high risk, and the precautions to take when excavating in high risk areas (including in close proximity to trees)			
	17.05 Distinguish the working methods to minimise subsequent reinstatement			
	17.06 Describe the different categories of trenches, and the correct dimensions to use for trenches that are excavated			
	17.07 State the safe working practices for excavation activities			
18.01a Know how to support and protect underground apparatus during excavation	18.01 List the different types of utility apparatus and highway services likely to be encountered during excavation and the implications of damage to them including: ironwork and modular components.	1	3	5
	18.02 Describe the action to take to report damaged utility apparatus and highway services			
	18.03 State the different types of support for exposed utilities' apparatus, and understand their safe use.			
18.01b Know how to support and protect underground apparatus during excavation	18.04 State the appropriate equipment to use when supporting and protecting different types of exposed utilities' apparatus	1		
	18.05 Identify how to safely remove excavation supports.			
18.01c Know how to support and	18.06 Describe the circumstances in which trench sidewall support is required, and where to find the guidelines for its provision	1		

protect underground apparatus during excavation	18.07 List safe working practices for supporting underground apparatus during excavation			
19.01a Identify, select and store excavated materials for re-use or disposal	19.01 Identify materials that are suitable and unsuitable for re-use as backfill and the circumstances in which re-use of materials is permissible	1	1	1.6
	19.02 Describe how to store different types of re-usable materials safely			
	19.03 Describe how to protect re-usable materials from contamination and loss of fines			
	19.04 List the particular characteristics of chalk and the correct procedures for its storage and re-use			
	19.05 State how to protect re-usable materials from excessive drying or wetting during storage			
	19.06 Indicate safe storage for materials that are unsuitable for re-use, and state how to dispose of them safely			
	19.07 Assess the implications of using unsuitable material for backfill			
	19.08 List safe working practices for selecting materials for re-use as backfill and on-site storage and disposal procedures			
20.01a Know how to select materials for backfill, sub-base, road base and surfacing layers	20.01 Identify different types of excavated materials and determine their suitability for use as backfill	1	2	3.3
	20.02 State how to calculate the quantities of materials required for a reinstatement			

	20.03 State where to store re-usable backfill materials and how to store them correctly			
	20.04 Identify different types of imported materials and determine their suitability for use as backfill, sub-base and base			
	20.05 Describe how to safely unload and store imported materials			
20.01b Know how to select materials for backfill, sub-base, road base and surfacing layers	20.06 List the correct fill materials to use as surround to utility apparatus and highway services	1		
	20.07 Describe the implications of using unsuitable materials for reinstatement			
	20.08 Describe what constitutes a sensitive area and the correct materials to use in these areas (including close proximity to tree roots)			
	20.09 Know how to minimise obstruction of essential facilities and obstruction or damage to street furniture			
	20.10 List safe working practices for selecting and storing backfill materials			
21.01a Know how to backfill excavation	21.01 List equipment for reinstatement and compaction operations on the basis of the material type and trench dimensions and describe how to ensure it is fit for purpose	1	1	1.6
	21.02 State the types and nature of equipment that minimise the potential for damage to underground utilities' apparatus			
	21.03 State the level to which the backfill layer should be reinstated			

	21.04 Describe the amount of compaction required for each layer for specific equipment to provide a firm basis for advancement and to minimise the need for subsequent reinstatement visits			
	21.05 List safe working practices for the reinstatement and compaction of backfill materials			
22.01a know how to reinstate sub-base	22.01 State the appropriate hand tools and compaction equipment for the prescribed operation and material type	1	1	1.6
	22.02 Describe how to ensure that equipment is fit for purpose			
	22.03 State how to calculate the quantities of different materials required to ensure the correct layer thickness is produced after compaction			
	22.04 Know the level to which the pavement should be reinstated and how to measure the specified level of each layer			
	22.05 Describe how to check that the pavement construction is correctly completed			
	22.06 List the safe working practices for reinstating the pavement structure			
23.01a know how to reinstate base (road base)	23.01 State the appropriate hand tools and compaction equipment for the prescribed operation and material type	1	1	1.6
	23.02 Describe how to ensure that equipment is fit for purpose			

	23.03 State how to calculate the quantities of different materials required to ensure the correct layer thickness is produced after compaction			
	23.04 State the level to which the pavement should be reinstated and how to measure the specified level of each layer			
	23.05 Describe how to check that the pavement construction is correctly completed			
	23.06 List the safe working practices for reinstating the pavement structure			
24.01a know how to reinstate highway surfacing materials	24.01 Describe how to remove loose matter from the area to be reinstated	1	3	5
	23.02 Describe the implications of pavement layer surface contamination, and how to identify and rectify contamination			
	24.03 Describe high amenity and high duty surfaces			
	24.04 State how to identify edge damage and undercut, and correct procedures for trimming back			
24.01b know how to reinstate highway surfacing materials	24.05 Describe how and where to re-position displaced ironwork, kerbs and edge restraints, and the appropriate equipment to use	1		
	24.06 State how to calculate the quantities of different materials required to ensure the correct layer thickness is produced after compaction			
24.01c know how to reinstate	24.07 Describe how to ensure material is suitable for pavement type	1		

highway surfacing materials	24.08 List the quality checks to be carried out in ensuring materials used meet current specifications and standards			
	24.09 describe how to confirm that the pavement layer construction is correct, the checks to make to ensure this, and the implications of incorrect pavement layer construction			
	24.10 List safe working practices for reinstatement in cold-lay bituminous materials			
25.01a know how to dispose of surplus material	25.01 Identify materials that are unsuitable for re-use or surplus to requirements and provide safe temporary storage for them on site	1	1	1.6
	25.02 describe how to load all types of materials for disposal safely for transportation to the designated disposal area, using the appropriate equipment and at the appropriate time			
	25.03 Describe how to leave the site in a clean and safe condition			
	25.04 List safe working practices for disposing of surplus materials that are in accordance with current relevant specifications and procedures			
26.01a Know how to install protection and safety equipment	26.01 describe the types and purposes of protection and safety equipment and materials including: signs, lighting, safety and security barriers, protection and safety notices and temporary structures	1	2	3.3
	26.02 describe the types and purposes of hand tools, power tools and ancillary equipment used to construct, assemble and position protection and security materials			

	26.03 describe how to plan for installing and setting out protection and safety arrangements			
	26.04 describe methods of setting out and positioning signing, lighting and guarding arrangements, including progress signs, warning signs, barriers/temporary structures, flashing beacons			
26.01b Know how to install protection and safety equipment	26.05 describe the checks to be carried out upon completion of the installation of protection and safety equipment, including: spacing of lighting, appropriate positioning of signs and notices, stability of barriers and/or temporary structures.	1		
	26.06 describe how to deal with typical problems and damage which can occur during installation of protection and safety equipment			
	26.07 describe how and to whom problems should be reported			
	26.08 describe situations which could require selection of additional, or replacement protection and safety equipment			
	26.09 explain the functions of installing protection, including: to protect work, staff, the public and surrounding environment			
28.01a Know how to carry out an on-site risk assessment to establish	28.01 Identify the purpose of carrying out a survey of the site	1	2	3.3
	28.02 State the requirements of the site location and how to make satisfactory provision for signing, lighting and guarding a work site.			

requirements for the control of pedestrians and traffic on single carriageway roads	28.03 Describe the factors to consider when making provision for the safe passage of pedestrians			
28.01b Know how to carry out an on-site risk assessment to establish requirements for the control of pedestrians and traffic on single carriageway roads	28.04 Describe the factors to consider in minimising disruption and ensuring the safety of vehicular traffic	1		
	28.05 Identify what to consider when making provision for vehicles and plant within the working area			
	28.06 List safe working practices for signing, lighting and guarding activities and the purpose of an on-site risk assessment			
29.01a Know how to protect pedestrians, vehicular traffic and site personnel	29.01 Identify the appropriate personal protective equipment to use for signing, lighting and guarding activities	1	2	3.3
	29.02 List the confines of the working area and how to control the movement of pedestrians, vehicles and plant within the area			
	29.03 Identify the requirements of the working area and how to control the movement of pedestrians, vehicles and plant within the area			
	29.04 State the requirements of the site location			
29.01b Know how to protect pedestrians, vehicular traffic and site	29.02 List the confines of the working area and how to control the movement of pedestrians, vehicles and plant within the area	1		
	29.05 Identify how to ensure that equipment is fit for purpose			

personnel	29.06 Describe the specified sequence for positioning and removal of equipment			
	29.07 List safe working practices for signing, lighting and guarding activities including the safe use and storage of tools and equipment.			
30.01a Know how to provide and operate positive traffic control systems	30.01 State how to ensure that temporary portable traffic signals are operating correctly	1	2	3.3
	30.02 Identify the requirements of the site location and how they affect the positioning of signals			
	30.03 State the correct sequence for placing signals			
	30.04 Identify the traffic conditions and how they affect the adjustment of signal controls			
30.01b Know how to provide and operate positive traffic control systems	30.05 State the correct sequence for dismantling and removal of signals	1		
	30.06 Identify the position and removal of traffic signs for stop/go and priority traffic control			
	30.07 State the requirements to be meet for give and take systems of working			
	30.08 List the safe working practices for the provision of signing, lighting and guarding on the highway in accordance with specifications and code of practice.			
	TOTAL	33	33	55

Paper: **6314-213** Paper title: **Dry Lining/Interior Systems**

Duration: **90 minutes** Assessment type: **Multiple choice** No. of items: **60**

Outcome/Section	Underpinning Knowledge	No of items	Total no of Qs	%
12.01a Know how to interpret given information for installing and dry lining partition systems	12.01 recognize from drawings: metal stud petitions, service shaft partitions and metal firring ceilings 12.02 identify from drawings the details showing location of openings, junctions and end points of partitions	1	1	1.6
13.01a Know how to select resources for installing dry lining partition systems	13.01 describe the types and purposes of tools and equipment used for installing dry lining partition systems 13.02 list the sheet and panel materials used in dry lining partition and ceiling fixing situations 13.03 describe the types and purposes of metal components and fixings used in dry lining partition and ceiling fixing including metal channel, timber battens, metal firring, and ancillary fixings	1	1	1.6
15.01a know how to install dry lining partition systems	15.01 list the procedures in setting out and installing to metal stud partition systems to include junctions, external and internal angles, doorways and window openings. 15.02 list the procedures in setting out and installing service shaft partitions to include an external angles and openings. 15.03 list the procedures in setting out and installing proprietary partition systems to include junctions, external and internal angles, doorways and window openings.	1	1	1.6

16.01a Interpret information from drawings of dry lining and encasements systems.	16.01 recognize components and fixings from Component drawings relating to the installation of dry lining and casements 16.02 state the use of drawings when preparing fixing schedules 16.03 list types of information available in the manufacturer's publications for dry lining systems	1	1	1.6
17.01a know how to select resources for installing dry lining and encasements	17.01 describe the types and purposes materials used for installation including wall boards,, thermal boards, glass reinforced gypsum board, metal firrings, timber battens, bonding compounds, fixings and fittings 17.02 describe the types and purposes of tools and equipment usually installation including hand tools, portable power tools, and ancillary equipment.	1	1	1.6
18.01a Know how to minimise risk of damage to dry lining, encasements and surrounding area	18.01 state how the working area is prepared prior to the fixing of plasterboard and cladding 18.02 list of the types of protective sheathings and dustsheets used in protecting existing services	1	2	3.3
18.01b Know how to minimise risk of damage to dry lining, encasements and surrounding area	18.03 state the reasons for the precautions when disposing of surplus gypsum board 18.04 describe how protection is carried out to existing work surfaces 18.05 state the reason for maintaining clean work areas	1		

19.01a Install dry lining and casements	19.01 describe the method of setting out areas, openings and junctions, including marking out, fitting, finishing, positioning and securing 19.02 describe methods of installing cladding to timber studding, joists and frames 19.03 describe methods of installing cladding to metal firings	1	2	3.3
19.01b Install dry lining and casements	19.04 describe the method of applying direct bond to solid backgrounds 19.05 state methods of applying cladding to encasements systems including frame and frameless, beam and column 19.06 state methods of forming repairs to damaged cladding systems	1		
20.01a Know how to interpret given information relating to the finishing of dry lining joints	20.01 state materials that may be specified for finishing dry lining joints 20.02 state the reason for working to schedule for the contract 20.03 state where information can be gathered relating to finishing materials	1	1	1.6
21.01a Know how to select resources for finishing dry lining joints	21.01 describe the types and purposes of materials used for finishing joints including tape, angle beads, jointing and finishing compounds, sealants, primers and top coats for finishing dry lining 21.02 describe the types and functions of hand tools including taping machines, trowels, boxes, spatulas, brushes and scrapers 21.03 describe the types and functions of power tools including mixers, whisks and sanders	1	1	1.6

22.01a Know how to minimise damage to work and surrounding area when finishing dry lining joints and boards	22.01 state methods of establishing a clear working area prior to commencement of jointing 22.02 state how dustsheets and other protective items are fixed and Used to protect existing services 22.03 state how disposal of surplus materials is achieved in a safe and correct manner.	1	1	1.6
23.01a Know how to finish dry lining joints	23.01 describe the methods of completing work to dry lining including measuring, marking out, cutting, positioning and securing tape to horizontal and vertical joints and internal and external angles using hand and mechanical methods 23.02 state the types of sealants and methods of applying. 23.03 describe methods of filling out joints to dry lining	1	2	3.3
23.01b Know how to finish dry lining joints	23.04 describe methods of forming external and internal angles 23.05 describe methods of applying and completing the finish coat 23.06 describes a method of and reason for applying primer	1		
24.01a Know how to interpret given information from working drawings of suspended ceiling systems	24.01 recognize different types of drawings used in illustrating methods of fixing particularly assembly drawings 24.02 explain how assembly drawings aid the fixing process 24.03 explain the purpose of schedules 24.04 state types of information contained in manufacturers publications. 24.05 recognize and name components illustrated in working drawings of suspended ceiling systems	1	1	1.6

25.01a Know how to select resources for installing suspended ceiling systems	25.01 describe the types and purposes of suitable tools equipment for use in the fixing process including hand tools and levels. 25.02 describe the types of materials used for fixing hangers, grids, and firrings. 25.03 describe the types and purposes of materials used in the fixing process including: hangers, grids, firrings, screws, plugs, and proprietary fixings	1	1	1.6
26.01a Know how to comply with organisational procedures to minimise risk of damage to the suspended ceilings	26.01 state methods of handling suspended ceiling materials so they are kept in a good condition and not damaged and do not form a hazard to others on site. 26.02 state how suspended ceiling materials are stored in the working area so that they are not a hazard to others or in a position to be damaged. 26.03 state methods of protecting surrounding area from damage from the effects of fitting suspended ceilings and ensuring that areas are free of debris.	1	1	1.6
27.01a Know how to install suspended ceilings	27.01 explain how datums and levels are established 27.02 describe how to prepare fixing points including in brickwork, block work, and dense concrete. 27.03 describe how to install primary fixings in brickwork, concrete, and block work 27.04 describe the methods of installing suspended ceilings including exposed grid, linear and open cell, metal firring, pan grid and other proprietary suspended ceilings.	1	3	5
27.01b Know how to install suspended ceilings	27.05 describe how plain and acoustic panels are installed 27.06 describe the method of installing light fittings and grills to plain and proprietary systems 27.07 explain why cavity barriers are installed	1		

27.01c Know how to install suspended ceilings	27.08 describe methods of installing cavity barriers 27.09 describe how to check the stability of a suspended ceiling. 27.10 describe the methods and the importance of checking that the seal of panels	1		
28.01a Know how to interpret given information for use in the installation of proprietary partition systems	28.01 explain the relevance of location, component and assembly drawings to proprietary partition systems 28.02 state the purpose of the schedule of materials relating to proprietary partition systems 28.03 state the reason for reference to manufacturers information	1	1	1.6
29.01a Know how to select resources for installing proprietary partition systems	29.01 describe types and purposes of tools and equipment required for the installation of relocatable and operable partition systems 29.02 describe types and purposes of suitable materials for relocatable and operable partition systems 29.03 describe types and purposes of components and fittings for relocatable and operable partition systems	1	2	3.3
29.01b Know how to select resources for installing proprietary partition systems	29.04 describe types and purposes of suitable materials for doorways for relocatable partition systems 29.05 describe types and purposes of suitable material for glazing to relocatable partition systems	1		
30.01a Know how to minimise the risk of damage proprietary partition systems whilst in the course of erection and subsequently	30.01 list procedure for ensuring a clean working area 30.02 state methods of protecting existing finished work 30.03 state method of disposing of waste material particularly relating to gypsum waste	1	1	1.6

31.01a Know how to install proprietary partition Systems	31.01 describe methods of installing of a relocatable partition system 31.02 describe methods of installing doorways in partition systems 31.03 describe the method of hanging doors in partition systems	1	3	5
31.01b Know how to install proprietary partition Systems	31.04 describe the method of installing glazing in partition systems 31.05 describe the method of installing trims, mouldings and junctions in relocatable partitioning systems 31.06 state the method of applying wall coverings to relocatable partitioning systems	1		
31.01c Know how to install proprietary partition Systems	31.07 state the method of installation for operable partition systems including folding and sliding systems 31.08 describe how trims, mouldings and fastenings are installed in operable partitioning systems	1		
32.01a Know how to interpret given information from a working drawing for installing raised access flooring	32.01 identify from drawings the type size and location of a raised access flooring system 32.02 list a schedule of components in order to complete a project of a raised access flooring system	1	2	3.3
32.01b Know how to interpret given information from a working drawing for installing raised access flooring	32.03 determine from manufacturers information sheets sizes and types of components 32.04 identify from drawings location of services on the main floor deck.	1		

33.01a Know how to select resources for installing raised access flooring systems	33.01 describe types and purposes of tools and equipment used in installation including hand tools, portable power tools and ancillary equipment for installing raised access flooring. 33.02 describe types and purposes of materials, components and fittings including system components, perimeter strips, timber, timber-based sheet material, fixings, fittings, fire barriers, ramps, steps, plastic and timber skirtings.	1	1	1.6
34.01a Know how to comply with organisational procedures to minimise the risk of damage	34.01 state the method of ensuring a safe clean and tidy work area when installing raised access flooring systems 34.02 list precautions to be taken in order to prevent damage to existing services and surfaces	1	1	1.6
35.01a Know how to install raised access flooring systems	35.01 describe the methods for measuring, setting out and marking out the position of components 35.02 describe the method of installing raised access flooring systems including thermal, fire and sound insulation 35.03 describe the reason for and method of forming openings for grilles and outlets	1	2	3.3
35.01b Know how to install raised access flooring systems	35.04 describe the method of installing plastic and timber skirting 35.05 describe the methods of installing surface coverings	1		
	TOTAL	33	33	55

Paper: **6314-214** Paper title: **Mastic Asphalting**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total no of Qs	%
12.01a Know how to set up cauldron pots	12.01 Describe how plant is set up safely in a correct working area.	1	6	10
12.01b Know how to set up cauldron pots	12.01 Describe how plant is set up safely in a correct working area	1		
12.01c Know how to set up cauldron pots	12.02 Identify position for gas supply in relation to plant.	1		
12.01d Know how to set up cauldron pots	12.02 Identify position for gas supply in relation to plant	1		
12.01e Know how to set up cauldron pots	12.03 Identify position of asphalt and bitumen blocks in relation to pot.	1		
12.01f Know how to set up cauldron pots	12.04 Explain correct method of charging pots.	1		
13.01a Know how to select and prepare materials	13.01 Identify and describe types and sizes of asphalt materials including: isolating felt, roof edge trims, gauges, insulating boards, Expanded Metal Lathe (E.M.L.), vents, primers, vapour barriers.	1	3	5
13.01b Know how to select and prepare materials	13.02 Describe methods of preparing materials to include: cutting, fixing, mixing.	1		
13.01c Know how to select and prepare materials	13.03 Select primer to allow asphalt adhesion to metal.	1		

14.01 Know how to position materials	14.01 Identify and describe areas where materials are located in horizontal and vertical asphalt coverings	1	1	1.6
15.01 Know how to use and maintain tools required	15.01 Demonstrate knowledge of tools required to apply preparations including: hand tools, power tools, spirit level, straight edge.	1	1	1.6
16.01a Demonstrate knowledge of applying preparations to backgrounds.	16.01 Explain the methods and order of application of applying and fixing preparations to vertical backgrounds including: brickwork, concrete, timber.	1	5	8.3
16.01b Demonstrate knowledge of applying preparations to backgrounds.	16.02 Explain the methods and order of application of applying and fixing preparations to horizontal backgrounds including: concrete, screed, timber.	1		
16.01c Demonstrate knowledge of applying preparations to backgrounds.	16.03 Explain the methods and order of applications of applying and fixing to roof edges including: brickwork, concrete, timber.	1		
16.01d Demonstrate knowledge of applying preparations to backgrounds.	16.04 Describe procedures to check falls and water falls to horizontal areas.	1		
16.01e Demonstrate knowledge of applying preparations to backgrounds.	16.05 Explain methods of applying repairs to vertical and horizontal backgrounds including: brickwork, concrete and timber.	1		

17.01a Know how to apply asphalt coverings	17.01 List tools required and order of application to complete asphalt coverings in roofing, flooring, tanking and paving to a range of surfaces including: vertical, horizontal, horizontal in narrow widths, angles, splays, bullnose.	1	4	6.6
17.01b Know how to apply asphalt coverings	17.02 Identify defects and remedies in application to include: blows, crazing.	1		
17.01c Know how to apply asphalt coverings	17.03 List appropriate methods of surface finishes to asphalt coverings to include: crimped, sand rubbed, paint, spar, polished.	1		
17.01d Know how to apply asphalt coverings	17.04 Describe methods of making good to realise waterproof joints to vertical, horizontal surfaces and angle fillets.	1		
18.01a Know how to set out asphalt.	18.01 Describe setting out bays to required widths, thickness and necessary break joints for vertical and horizontal work.	1	2	3.3
18.01b Know how to set out asphalt.	18.01 Describe setting out bays to required widths, thickness and necessary break joints for vertical and horizontal work.	1		
19.01a Have underpinning knowledge in relation to asphalt waterproofing	19.01 Demonstrate knowledge and understanding of: expansion joints in large and small areas, the use of breather vents, insulation boards, and necessary vapour barriers, surface finishes, lightweight screeds.	1	2	3.3

19.01b Have underpinning knowledge in relation to asphalt waterproofing	19.01 Demonstrate knowledge and understanding of: expansion joints in large and small areas, the use of breather vents, insulation boards, and necessary vapour barriers, surface finishes, lightweight screeds.	1		
20.01a Know how to use and maintain tools and equipment	20.01 List all tools and equipment required to carry out repairs to existing asphalt coverings	1	1	1.6
21.01a Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.01 Describe methods and order of application of removing and replacing defective asphalt to horizontal and vertical surfaces.	1	8	13.3
21.01b Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.01 Describe methods and order of application of removing and replacing defective asphalt to horizontal and vertical surfaces	1		
21.01c Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.02 Describe causes and remedies of defects in asphalt coverings to include: cracks, blows, crazing, wrinkles and expansion.	1		
21.01d Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.02 Describe causes and remedies of defects in asphalt coverings to include: cracks, blows, crazing, wrinkles and expansion	1		

21.01e Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.03 Describe how to discover the source of moisture penetration.	1		
21.01f Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.04 Differentiate and describe defects in background surfaces.	1		
21.01g Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.05 Describe a maintenance plan to ensure longevity of asphalt coverings.	1		
21.01h Possess the required knowledge to repair defective mastic asphalt and maintain mastic asphalt.	21.06 List correct methods of removal of debris from working areas.	1		
	TOTAL	33	33	55

Paper: **6314-215** Paper title: **Scaffolding**

Duration: **90 Minutes** Assessment Type: **Multiple choice** No of Items: **60**

Outcome coverage	Knowledge group	Number of items	Total No of Qs	%
12.01a Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.01 Identify the correct materials, components and equipment for erecting and dismantling independent and birdcage scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1	8	13.3
12.01b Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.02 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
12.01c Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.03 Identify the correct materials, components and equipment for erecting and dismantling independent and birdcage scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1		
12.01d Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.04 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		

12.01e Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.05 Identify the correct materials, components and equipment for erecting and dismantling independent and birdcage scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1		
12.01f Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.06 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
12.01g Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.07 Identify the correct materials, components and equipment for erecting and dismantling independent and birdcage scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1		
12.01h Know how to erect and dismantle independent and birdcage scaffolds in order to meet contract specifications and allocated timescales	12.08 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
13.01a Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	13.01 Identify the correct materials, components and equipment for erecting and dismantling basic tower scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders and proprietary components	1	6	10

13.01b Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	13.02 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
13.01c Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	13.03 Identify the correct materials, components and equipment for erecting and dismantling basic tower scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders and proprietary components	1		
13.01d Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	13.04 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
13.01e Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	13.05 Identify the correct materials, components and equipment for erecting and dismantling basic tower scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders and proprietary components	1		
13.01f Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	13.06 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
14.01a Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	14.01 Identify the correct materials, components and equipment for erecting and dismantling basic cantilever scaffolds including: tube and fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1	5	8.3

14.01b Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	14.02 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
14.01c Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	14.03 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
14.01d Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	14.04 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
14.01e Know how to erect and dismantle basic tower scaffolds in order to meet contract specifications and allocated timescales	14.05 Identify the correct hand tools and ancillary equipment including: scaffold spanner, hammer, key and levels.	1		
15.01a Know how to erect and dismantle basic pavement and roof scaffolds in order to meet contract specifications and allocated timescales	15.01 Identify materials, components and equipment for erecting and dismantling basic pavement and roof scaffolds including: tube and Fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1	5	8.3
15.01b Know how to erect and dismantle basic pavement and roof scaffolds in order to meet contract specifications and allocated timescales	15.02 Describe the importance of following safety procedures when erecting and securing scaffolding	1		

15.01c Know how to erect and dismantle basic pavement and roof scaffolds in order to meet contract specifications and allocated timescales	15.03 Identify materials, components and equipment for erecting and dismantling basic pavement and roof scaffolds including: tube and Fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1		
15.01d Know how to erect and dismantle basic pavement and roof scaffolds in order to meet contract specifications and allocated timescales	15.04 Describe the importance of following safety procedures when erecting and securing scaffolding	1		
15.01e Know how to erect and dismantle basic pavement and roof scaffolds in order to meet contract specifications and allocated timescales	15.05 for erecting and dismantling basic pavement and roof scaffolds including: tube and Fitting, system scaffold, associated materials including props, ropes, boards, plates, ladders, proprietary components	1		
16.01a Know how to utilise provision for fall arrest	16.01 List responsibilities for fall arrest under the Health & Safety Statutory requirements. Identify potentially hazardous situations in relation to the use of fall arrest equipment including: obstructions or other adjacent work actives interfering with the movement and securing of the harness , height of operations, inclement weather, visibility, defective/damaged equipment, insecure anchor points.	1	9	15

16.01b Know how to utilise provision for fall arrest	16.02 List equipment to be used during The work activities and associated with the fall arrest including: safety helmet, safety Boots and full body harness, lanyard with Shock absorber, associated hooks, rings and buckles.	1		
16.01c Know how to utilise provision for fall arrest	16.03 Explain recommended and recognised practices of locating and fixing anchor points that provide for secure and freedom of Movement when using a safety harness. Including fixing to: selected scaffolds, secured steelwork structures, wire and rope systems, permanently installed anchorage points.	1		
16.01d Know how to utilise provision for fall arrest	16.04 List regulations and codes of practice for using and wearing a safety harness and fall arrest equipment including: The British Standards for Personal Protective Equipment against falls From height , related industry recognised practice for Using fall arrest equipment (SG4: 05)	1		
16.01e Know how to utilise provision for fall arrest	16.05 State operational methods and techniques for correctly using a safety harness, including how to wear a safety harness, locate secure anchorage, clipping and unclipping, transferring, protocol, carrying out manoeuvres safety.	1		

16.01f Know how to utilise provision for fall arrest	16.06 List potential damage or defects that may occur to equipment including: wear and tear to the harness, damage to equipment, malfunctions of the ring, hooks and buckles, stretched lanyards.	1		
16.01g Know how to utilise provision for fall arrest	16.07 State checks that should be carried out before and after use of equipment: including: correct storage and maintenance of equipment.	1		
16.01h Know how to utilise provision for fall arrest	16.08 Explain procedures and techniques for rescue in the event of a fall both for oneself and others, including: how to deal with a fall, emergency procedures to follow, who to inform, records and documentation to be kept.	1		
16.01i Know how to utilise provision for fall arrest	16.09 List methods and safety procedures for dismantling scaffolding including: having an awareness of the surrounding environment, any manufacturer's recommendations, loosening, releasing, removing, handing Down, stacking and storing.	1		
TOTAL		33	33	55

Paper: **6314-216** Paper title: **Wall and Floor Tiling**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total No of Qs	%
15.01a Interpret given information	15.01 state of the types of information to be obtained from drawings relating to the preparation of backgrounds	1	2	3.3
15.01b Interpret given information	15.02 state the type of information to be obtained from specifications relating to the preparation of backgrounds the tiling	1		
16.01a Know how to select quality and quantity of resources required and the reasons for their use	16.01 list suitable hand tools for application of sealants and bonding agents, application and keying of renders	1	1	1.6
	16.02 state suitable power tools for mixing materials and forming keys on services			
	16.03 state suitable ancillary equipment for mixing and straightening backgrounds			
	16.04 state suitable materials for treatment to background prior to application of wall and floor tiles			
	16.05 state suitable protective materials for application to surrounding areas			
	16.06 list suitable waterproofing membranes, decoupling membranes, expansion joints, mesh and trims it			

	16.07 state the reason for the use of waterproofing membranes, decoupling membranes, expansion joints, mesh and trims it			
17.01 a Explain how to minimise the risk of damage	17.01 list protective materials used in order to protect surrounding areas	1	1	1.6
	17.02 state the method of fixing materials used for protection			
	17.03 state how existing tiles may be removed prior to preparation for replacement work			
18.01a Describe and preparation methods for a range of new and existing services	18.01 state how new and existing brickwork, block work, concrete work, plasterwork and other substrata are prepared to receive tiles	1	3	5
	18.02 state what is meant by the term key in a relation to wall and floor tiling.			
18.01b Describe and preparation methods for a range of new and existing services	18.03 describe the use of a bonding agent and acrylic primers	1		
	18.04 list power and hand tools used to create a key on solid backgrounds			
18.01c Describe and preparation methods for a range of new and existing services	18.05 state types of mesh and trims used when preparing background for tiling	1		
	18.06 state methods of installing damp proof membranes, expansion joints, decoupling membranes, mesh and trims used when preparing background for tiling			

19.01a Know how to interpret drawings and specifications for wall tiling operations	19.01 state how areas for tiling can be set out using working drawings as a reference.	1	4	6.6
19.01b Know how to interpret drawings and specifications for wall tiling operations	19.01 state how areas for tiling can be set out using working drawings as a reference.	1		
19.01c Know how to interpret drawings and specifications for wall tiling operations	19.02 state how areas for tiling can be set out using working drawings as a reference.	1		
19.01d Know how to interpret drawings and specifications for wall tiling operations	19.02 state how areas for tiling can be set out using working drawings as a reference.	1		
20.01a Know how to select and describe the use of required resources	20.01 list suitable tiles, adhesives, grouts, trims and ancillary items from specification. Including plain wall tiles, patterned wall tiles, vitrified tiles	1	5	8.3
20.01b Know how to select and describe the use of required resources	20.01 list suitable tiles, adhesives, grouts, trims and ancillary items from specification. Including plain wall tiles, patterned wall tiles, vitrified tiles	1		
20.01c Know how to select and describe the use of required resources	20.02 list and state the use of hand tools and power tools used in the tiling process	1		

20.01d Know how to select and describe the use of required resources	20.02 list and state the use of hand tools and power tools used in the tiling process	1		
20.01e Know how to select and describe the use of required resources	20.03 list and state the use of ancillary equipment used for mixing, and establishing levels.	1		
21.01a Know how to install tiles to wall surfaces	21.01 state methods of setting out tiling to regular and irregular wall areas	1	5	8.3
21.01b Know how to install tiles to wall surfaces	21.02 state reasons for and method of installing trims and movement joints to regular and irregular wall areas	1		
21.01c Know how to install tiles to wall surfaces	21.03 list procedure in installing tiles to regular and irregular wall areas including the formation of hols for drainage and heating pipes	1		
21.01d Know how to install tiles to wall surfaces	21.04 list procedure in grouting and finishing tiles to regular and irregular wall areas	1		
21.01e Know how to install tiles to wall surfaces	21.05 state methods of applying and finishing tiles to soffits, reveals and sills	1		
	21.06 state methods of forming internal and external angles including door and window openings			

22.01a Know how to interpret drawings, schedules and specifications in order to form tiled floor surfaces	22.01 state how areas for floor tiling can be set out using working drawings including focal points, levels and falls from datums	1	2	3.3
22.01b Know how to interpret drawings, schedules and specifications in order to form tiled floor surfaces	22.01 state how areas for floor tiling can be set out using working drawings including focal points, levels and falls from datums	1		
23.01a Know how to select required Resources	23.01 list suitable tiles, adhesives, grouts, damp proof membranes, movement joints, trims and ancillary items from specification.	1	5	8.3
23.01b Know how to select required Resources	23.02 list suitable tiles, adhesives, grouts, damp proof membranes, movement joints, trims and ancillary items from specification.	1		
23.01c Know how to select required Resources	23.02 list suitable tiles, adhesives, grouts, damp proof membranes, movement joints, trims and ancillary items from specification.	1		
23.01d Know how to select required Resources	23.02 list suitable tiles, adhesives, grouts, damp proof membranes, movement joints, trims and ancillary items from specification.	1		
23.01e Know how to select required Resources	23.02 list suitable tiles, adhesives, grouts, damp proof membranes, movement joints, trims and ancillary items from specification.	1		

24.01a Know how to install tiles to floor surfaces	24.01 state methods of setting out tiling to regular and irregular floor areas including intersections to doorways and passages	1	5	8.3
	24.02 state reasons for and method of installing damp proof membranes, installation, trims and movement joints to regular and irregular floor areas			
24.01b Know how to install tiles to floor surfaces	24.03 list procedure in installing tiles to regular and irregular floor areas including levels and falls including forming holes for drainage and heating pipes	1		
	24.04 list procedure in grouting and finishing tiles to regular and irregular floor areas			
24.01c Know how to install tiles to floor surfaces	24.03 list procedure in installing tiles to regular and irregular floor areas including levels and falls including forming holes for drainage and heating pipes	1		
	24.04 list procedure in grouting and finishing tiles to regular and irregular floor areas			
24.01d Know how to install tiles to floor surfaces	24.06 state methods of installing under tile heating systems	1		
24.01e Know how to install tiles to floor surfaces	24.06 state methods of installing under tile heating systems	1		
	TOTAL	33	33	55

Paper: **6314-217** Paper Title: **Maintenance Operations**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome / Section	Underpinning Knowledge	No of items	Total no of Qs	%
12.01a Know which materials to use to repair timber, fencing structures and ironmongery. .	12.01 List names and characteristics of common materials and related components including: softwood, hardwood and timber manufactured board i.e. MDF, chipboard/ plywood, sizes of ironmongery locks, handles, barrels, bolts, latches etc. 12.02 State uses for and limitations of materials and components including: the correct use of materials for outdoor/indoor use. 12.03 List typical defects associated with the materials and the probable cause of the defects including: knots, shakes and splits in timber also make sure all ironmongery is in correct working order and free from defects and rust. 12.04 Explain hazards associated when using electrical equipment and hazardous materials on site and how these can be minimised.	1	1	1.6
13.01a Know working methods for repairing and renewing woodwork, fencing systems and ironmongery.	13.01 Distinguish the most efficient and appropriate ways of removing and safely disposing of existing materials and components.	1	3	5

13.01b Know working methods for repairing and renewing woodwork, fencing systems and ironmongery.	13.02 State the materials and/or components that will give the best match for quality and appearance with the existing finish including: correct timbers (ie softwood or hardwood), correct size latches, bolts and lever handles.	1		
13.01c Know working methods for repairing and renewing woodwork, fencing systems and ironmongery. .	13.03 List the range of work techniques that can be used when fixing replacement materials and components into place: including splicing and cutting back timber, and renew to match existing finish. 13.04 State current legislation and best practice procedures including: current health and safety legislation, manual handling and lifting techniques, procedures for recording accidents and equipment failure, who to contact in case of an emergency.	1		
15.01a Know the materials and methods used to repair basic plumbing, sink and sanitary appliances, rainwater systems and propriety flashings.	15.01 List names and characteristics of common basic plumbing materials and related components including: compression and push fit fittings, tap washers ball valves and cistern diaphragms 15.02 List names and characteristics of common sink and sanitary appliances materials and related components including: taps copper and plastic pipes compression and push-fit fittings, wastes and valves adhesives and sealants	1	4	6.6

15.01b Know the materials and methods used to repair basic plumbing, sink and sanitary appliances, rainwater systems and propriety flashings.	15.03 List names and characteristics of common rainwater components including: down pipes, hopper heads bends (angles off) stop-ends, running outlets and brackets. 15.04 List names sizes and common characteristics of roof flashings including: valleys and stepped soakers.	1		
15.01c Know the materials and methods used to repair basic plumbing, sink and sanitary appliances, rainwater systems and propriety flashings.	15.05 List typical defects associated with the materials and the probable cause of the defects including: plumbing fittings and pipe-work, guttering, rainwater components, and lead work.	1		
15.01d Know the materials and methods used to repair basic plumbing, sink and sanitary appliances, rainwater systems and propriety flashings.	15.06 Explain hazards associated when using the materials, chemicals and electrical equipment and how these can be minimised.	1		
16.01a Know working methods for repairing and renewing basic plumbing components, sink and sanitary appliances, rainwater systems and propriety roof flashings.	16.01 Distinguish the most efficient and appropriate ways of removing existing materials and components listed in 15.04. 16.02 State the materials and/or components that will give the best match for quality and appearance with the existing finishes listed in 15.04.	1	4	6.6

16.01b Know working methods for repairing and renewing basic plumbing components, sink and sanitary appliances, rainwater systems and propriety roof flashings.	16.03 List the range of work techniques that can be used when fixing/repairing replacement plumbing, rainwater and lead flashings.	1		
16.01c Know working methods for repairing and renewing basic plumbing components, sink and sanitary appliances, rainwater systems and propriety roof flashings.	16.03 List the range of work techniques that can be used when fixing/repairing replacement plumbing, rainwater and lead flashings.	1		
16.01d Know working methods for repairing and renewing basic plumbing components, sink and sanitary appliances, rainwater systems and propriety roof flashings.	16.04 State current legislation and best practice procedures including: current health and safety legislation, cleaning and the disposal of waste, manual lifting techniques, procedures for recording accidents and equipment failure, and communication with an employer.	1		
17.01a Know which materials to use to repair wall and floor tiling and proprietary wall and ceiling systems and apply paint systems and wall coverings.	17.01 List names and characteristics of common wall and floor tiling materials and related components including: ceramic wall/floor tiles, various adhesives, and fungal grout. 17.02 List names and characteristics of common paint systems including: oil-based paints, water-based paints, solvents and preparation materials (i.e. glass paper, filler).	1	2	3.3

	17.03 List names and characteristics of common wall coverings including: the correct grade lining papers, wall coverings (i.e. wallpaper) and different adhesives. 17.04 List names and characteristics of common proprietary wall and ceiling components including: the correct size plasterboard sheets to be used when carrying out remedial work to walls and ceilings, the correct fixings, filler and finishing tapes. 17.05 List typical defects associated with the materials and the probable cause of the defects including: plasterboards, ceramic wall and floor tiles, paints and wall coverings.			
17.01b Know which materials to use to repair wall and floor tiling and proprietary wall and ceiling systems and apply paint systems and wall coverings.	17.06 Explain hazards associated when using the materials and equipment listed in 17.05 and how they can be minimised.	1		
18.01a Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.01 Distinguish the most efficient and appropriate ways of removing and safely disposing of existing materials and components. 18.02 State the appropriate surface preparation techniques required.	1	7	11.6

18.01b Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.03 State the materials and/or components that will give the best match for quality and appearance with the existing finish. 18.04 List the range of work techniques that can be used when fixing/repairing replacement wall and floor tiling, proprietary wall and ceiling systems, paint systems and wallcoverings.	1		
18.01c Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.05 State current legislation and best practice procedures including: current health and safety legislation, manual handling and lifting techniques, procedures for recording accidents and equipment failure, who to contact in case of an emergency.	1		
18.01d Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.03 State the materials and/or components that will give the best match for quality and appearance with the existing finish. 18.04 List the range of work techniques that can be used when fixing/repairing replacement wall and floor tiling, proprietary wall and ceiling systems, paint systems and wallcoverings.	1		

18.01e Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.03 State the materials and/or components that will give the best match for quality and appearance with the existing finish. 18.04 List the range of work techniques that can be used when fixing/repairing replacement wall and floor tiling, proprietary wall and ceiling systems, paint systems and wallcoverings.	1		
18.01f Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.03 State the materials and/or components that will give the best match for quality and appearance with the existing finish. 18.04 List the range of work techniques that can be used when fixing/repairing replacement wall and floor tiling, proprietary wall and ceiling systems, paint systems and wallcoverings.	1		
18.01g Know working methods for repairing and renewing wall and floor tiling, proprietary wall and ceiling systems and preparing for and applying paint systems and wall covering products.	18.03 State the materials and/or components that will give the best match for quality and appearance with the existing finish. 18.04 List the range of work techniques that can be used when fixing/repairing replacement wall and floor tiling, proprietary wall and ceiling systems, paint systems and wallcoverings.	1		
19.01a Know which materials to use to repair masonry structures, slate and tile roofs, paved areas and drainage systems.	19.01 List names and characteristics of common materials and related components. 19.02 State uses for and limitations of materials and components.	1	3	5

19.01b Know which materials to use to repair masonry structures, slate and tile roofs, paved areas and drainage systems.	19.03 List typical defects associated with the materials and the probable cause of the defects.	1		
19.01c Know which materials to use to repair masonry structures, slate and tile roofs, paved areas and drainage systems.	19.04 Explain hazards associated with using materials and equipment and how these can be minimised.	1		
20.01a Know working methods for repairing and renewing brickwork and blockwork, slating and tiling, paving and drainage systems.	20.01 Distinguish the most efficient and appropriate ways of removing existing materials and components. 20.02 Explain the appropriate foundation preparation techniques (as applicable).	1	4	6.6
20.01b Know working methods for repairing and renewing brickwork and blockwork, slating and tiling, paving and drainage systems.	20.03 State the materials and/or components that will give the best match for quality and appearance with the existing finish.	1		
20.01c Know working methods for repairing and renewing brickwork and blockwork, slating and tiling, paving and drainage systems.	20.04 List the range of work techniques that can be used when laying or fixing replacement materials and components into place. 20.05 Explain methods for protecting any completed work.	1		
20.01d Know working methods for repairing and renewing brickwork and blockwork, slating and tiling, paving and drainage systems.	20.06 State current legislation and best practice procedures including: health and safety legislation, manual lifting techniques, procedures for recording accidents and equipment failure, communication with an employer.	1		

21.01a Know which materials to use to repair plastered surfaces, rendering and floor screeds.	21.01 List names and characteristics of common basic plastering materials and related components including: various types of plaster, additives bonding agents scrim and various types of corner/angle beads.	1	2	3.3
21.01b Know which materials to use to repair plastered surfaces, rendering and floor screeds.	21.02 List names and characteristics of common basic plastering materials and related components including: cements sands expansion joints and corner/external beads. 21.03 List names and characteristics of common basic screeding materials and related components including: sand/cements flexible floor screeds, water based floor screeds and additives.	1		
22.01a Know working methods for repairing and renewing plastered surfaces, rendering and floor screeds.	22.01 State uses for and limitations of materials and components including: the correct use of materials for out-door/indoor use.	1	3	5
22.01b Know working methods for repairing and renewing plastered surfaces, rendering and floor screeds.	22.02 List typical defects associated with the materials and the probable cause of the defects including: the importance of storing materials dry and safe and shelf lives.	1		
22.01c Know working methods for repairing and renewing plastered surfaces, rendering and floor screeds.	22.03 Explain hazards associated with using materials and equipment and how these can be minimised including: electric mixers.	1		
	TOTAL	33	33	55

Paper: **6314-218** Paper Title: **Built-up Felt Roofing/Applied Membranes**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome / Section	Underpinning Knowledge	Number of items	Total no of Qs.	%
12.01a Know how to prepare roof decks	12.01 Identify types of roof decking (ply wood, particle boards, timber and cementious)	1	4	6.6
12.01b Know how to prepare roof decks	12.02 identify appropriate methods(sweeping, drying, priming, repairing, taping, overlaying or re-placing) of preparing roof decking	1		
12.01c Know how to prepare roof decks	12.03 identify defects in roof decking (rot, dampness, inadequate fall, low spots or ridges)	1		
12.01d Know how to prepare roof decks	12.04 list the tools and equipment (spirit level, plumb bob, straight edge, knife, brushes, hammer, torch, roller and trowel) used to prepare roof decking	1		
13.01a know how to prepare plywood and particle boards	13.01 identify plywood and particle boards	1	5	8.3
13.01b know how to prepare plywood and particle boards	13.02 identify fixing patterns for plywood and particle boards (nails, screws and suitable gaps in both decking	1		
13.01c know how to prepare plywood and particle boards	13.03 identify associated problems with both deck types(inadequate fall, lack of fixings, no or too larger gaps in joints, inadequate thickness, raised edges, rot and wetness)	1		
13.01d know how to prepare plywood and particle boards	13.04 identify appropriate methods of preparation(sweeping, drying, taping, fixing and levelling)	1		

13.01e know how to prepare plywood and particle boards	13.05 identify appropriate method of incorporating vapour control layers and insulation with plywood and particle roof decks	1		
14.01a know how to prepare timber boarded decks	14.01 identify timber boarded decks	1	5	8.3
14.01b know how to prepare timber boarded decks	14.02 identify adequate fixing pattern for timber boarded decks	1		
14.01c know how to prepare timber boarded decks	14.03 identify associated problems with timber boarded decks(inadequate fall, inadequate fixings, inadequate thickness, rot and wetness	1		
14.01d know how to prepare timber boarded decks	14.04 identify appropriate methods of preparation(nailed layers, drying, sweeping and levelling	1		
14.01e know how to prepare timber boarded decks	14.05 identify appropriate methods of using vapour control layers and insulation with timber decks	1		
15.01a know how to prepare cementitous roof decks	15.01 Identify cementitous roof decks(concrete and cement screed)	1	4	6.6
15.01b know how to prepare cementitous roof decks	15.02 identify associated problems with cementitous roof decks (inadequate fall, wetness and any fins or leading edges)	1		
15.01c know how to prepare cementitous roof decks	15.03 identify appropriate methods(drying, sweeping, levelling, priming)	1		

15.01d know how to prepare cementitous roof decks	15.04 identify appropriate methods of incorporating vapour control layers and insulation with cementitous roof decks	1		
16.01a know how to prepare metal roof decks	16.01 identify metal roof decks	1	5	8.3
16.01b know how to prepare metal roof decks	16.02 identify associated problems with metal roof decks(inadequate fixings, inadequate fall and wetness)	1		
16.01c know how to prepare metal roof decks	16.03 identify methods of sweeping, drying, priming, levelling and securing metal decks	1		
16.01d know how to prepare metal roof decks	16.04 identify appropriate methods of incorporating vapour control layers and insulation with metal roof decks	1		
16.01e know how to prepare metal roof decks	16.05 identify appropriate methods of incorporating vapour control layers and insulation with metal roof decks	1		
17.01a know how to apply built-up bituminous roofing by pour and roll	17.01 identify appropriate methods of pour and roll application including: pour and roll, jugging and mopping	1	4	6.6
17.01b know how to apply built-up bituminous roofing by pour and roll	17.02 explain the importance of working safely when applying built up bituminous roofing by pour and roll method	1		
17.01c know how to apply built-up bituminous roofing by pour and roll	17.03 identify appropriate methods of applying built-up bituminous roofing by pour and roll to install kerbs, up-stands, collars, pipes, outlets, trims, gutters, drip edges and all flashing details by jugging, pouring/rolling or mopping	1		

17.01d know how to apply built-up bituminous roofing by pour and roll	17.04 identify appropriate methods of applying built-up bituminous roofing by pour and roll for vapour control layers, insulation, base layers, intermediate layers, cap sheets and surface finishes by jugging, pouring/rolling and mopping	1		
18.01a know how to apply built-up bituminous roofing by torch-on	18.01 identify whether a torch-on application is the most suitable method of application 18.02 explain the importance of working safely when applying built up bituminous roofing by torch on method	1	3	5
18.01b know how to apply built-up bituminous roofing by torch-on	18.03 identify the difference in techniques of applying built-up bituminous roofing by torch-on to install kerbs, up-stands, collars, pipes, outlets, trims, gutters, drip edges and all flashing details	1		
18.01c know how to apply built-up bituminous roofing by torch-on	18.04 explain the difference in technique when applying built-up bituminous roofing by torch-on to vapour control layers, insulation, base layers, intermediate layers, cap sheets and surface finishes	1		
19.01a know how to maintain and repair built-up bituminous roofing	19.01 identify suitable maintenance programs for built-up bituminous roofing 19.02 identify and evaluate defects found in built up bituminous roofing including: splits, cracks, blisters, surface debris, leaks and blockages	1	3	5
19.01b know how to maintain and repair built-up bituminous roofing	19.03 identify appropriate methods and materials to repair defects in built-up bituminous roofing including: preparatory liquids and compounds, suitable bituminous felt patches and overlay systems	1		

19.01c know how to maintain and repair built-up bituminous roofing	19.04 explain the importance of ensuring safe methods of carrying out repairs and maintenance to built-up bituminous roofing are adhered to particularly short duration work	1		
	TOTAL	33	33	55

Paper: **6314-219** Paper title: **Formwork**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total no of Qs	%
12.01a Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units	12.01 Interpret dimensions for formwork from technical drawings and specifications including: block, location, detail drawings, scales and abbreviations	1	10	16.6
12.01b Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units.	12.02 List properties of different formwork materials and components and their uses and limitations including: timber sheets, metal sheets, expanded polystyrene, box-outs, bolt-boxes, kickers, stop ends, soldiers, walling, tie-systems	1		
12.01c Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units.	12.03 List methods for measuring, marking out, cutting and assembling formwork panels.	1		
12.01d Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units	12.04 State characteristics and uses of different treatments that can be applied to formwork, including: mould oil, chemical release agents, form wax and protective coatings	1		

12.01e Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units	12.05 List defects in materials natural and imposed.	1		
12.01f Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units.	12.06 Explain types of fixings, and their advantages and disadvantages.	1		
12.01g Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units.	12.07 Interpret dimensions for formwork from technical drawings and specifications including: block, location, detail drawings, scales and abbreviations	1		
12.01h Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units.	12.08 List properties of different formwork materials and components and their uses and limitations including: timber sheets, metal sheets, expanded polystyrene, box-outs, bolt-boxes, kickers, stop ends, soldiers, walling, tie-systems	1		

12.01i Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units	12.09 List methods for measuring, marking out, cutting and assembling formwork panels	1		
12.01j Know how to fabricate formwork panels and components to support concrete columns, walls, beams, slab panels and pre-cast units	12.10 State characteristics and uses of different treatments that can be applied to formwork, including: mould oil, chemical release agents, form wax and protective coatings	1		
13.01a Know how to repair formwork panels	13.01 List potential defects that may occur in formwork panels.	1	5	8.3
13.01b Know how to repair formwork panels	13.02 State hazards associated with using defective formwork.	1		
13.01c Know how to repair formwork panels	13.03 Explain methods for repairing formwork panels.	1		
13.01d Know how to repair formwork panels	13.04 State hazards associated with using defective formwork.	1		
13.01e Know how to repair formwork panels	13.05 Explain methods for repairing formwork panels.	1		
14.01a Know how to work efficiently and safely	14.01 State safe working methods to comply with current health and safety legislation including: P.U.W.E.R 1998, M.H.S.W.R 1999 and C.O.S.H.H.	1	4	6.6

14.01b Know how to work efficiently and safely	14.02 List procedures for reporting any defects or discrepancies to a supervisor.	1		
14.01c Know how to work efficiently and safely	14.03 State how to correctly store formwork panels.	1		
14.01d Know how to work efficiently and safely	14.04 Understand needs of other occupations associated with formwork.	1		
15.01a Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.01 Identify where formwork should be positioned to meet specifications.	1	10	16.6
15.01b Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.02 Identify potential hazards and faults with components.	1		
15.01c Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.03 State methods used to set out horizontal and vertical alignment.	1		
15.01d Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.04 List jointing methods and their application.	1		

15.01e Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.05 List fixings required to secure formwork.	1		
15.01f Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.06 List supports systems required to secure formwork.	1		
15.01g Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.07 Identify where formwork should be positioned to meet specifications.	1		
15.01h Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.08 Identify potential hazards and faults with components.	1		
15.01i Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.09 State methods used to set out horizontal and vertical alignment.	1		
15.01j Know how to erect formwork to support concrete columns, walls, beams, slab panels and pre-cast units	15.10 List jointing methods and their application.	1		

16.01a know how to strike formwork	16.01 List the checks that should be carried out before striking, including: strength of the concrete, safety precautions, approval from supervisor.	1	4	6.6
16.01b know how to strike formwork	16.02 State how to remove formwork effectively.	1		
16.01c know how to strike formwork	16.03 List methods for cleaning and storing formwork for reuse, including: formwork, props and ties.	1		
16.01d know how to strike formwork	16.04 List the checks that should be carried out before striking, including: strength of the concrete, safety precautions, approval from supervisor.	1		
	TOTAL	33	33	55

Paper: **6314-220** Paper title: **Floorcovering (Textile and Impervious)**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total No of Qs	%
12.01a Build customer confidence in the service provided by you and your organisation	12.01 demonstrate effective ways of dealing promptly with customers' needs 12.02 describe alternative method of clear and precise communication with customers 12.03 provide examples of how to re-assure customers and increase their confidence in dealing with you and your organisation 12.04 provide examples of managing contact time with customers in a way which is efficient and assuring 12.05 illustrate the process involved in dealing with customers from initial contact to service delivery 12.06 investigate possible issues which might arise in delivering customer requirements 12.07 demonstrate solutions to possible issues arising during the delivery process 12.08 provide examples of how one might demonstrate one's and the organisation's best efforts to overcome issues 12.09 demonstrate an understanding of how the organisation's and the operative's perception of delivering customer requirements might differ from the customer's perception	1	1	1.6

13.01a Understand and meet the continuing needs and requirements of customers	13.01 discuss the scope of an operative's own authority in delivering customer requirements 13.02 describe ways an organisation can use to recognise customer expectations 13.03 illustrate the purchasing and delivery process for prospective customers 13.04 compare customer perspective in relation to your and your organisation's viewpoint 13.05 discuss how effective team work can build better customer relations 13.06 describe possible issues which might cause lack of customer confidence 13.07 investigate possible solutions to issues which might arise in delivering to customer expectations 13.08 research instances where organisation needs, personal needs and customer needs might lead to conflict 13.09 evaluate possible solutions to such areas of conflict	1	1	1.6

14.01a Develop an ongoing relationship between your customers and your organisation	14.01 suggest areas of customer uncertainty which could be clarified without consulting the organisation 14.02 describe areas of customer uncertainty which would have to be referred to others in the organisation for clarification 14.03 list possible options for providing customers with extra product, or service, information 14.04 investigate possible ways of including additional after sales service from the organisation 14.05 describe what form of guarantees are (or could be) given on product and/or service provided to customers 14.06 identify information which could be passed on to customers to facilitate after sales service 14.07 list how this information could be passed to customers 14.08 compare possible methods of conveying customer feedback to the organisation 14.09 investigate the possible processes which could be used for acting on customer feedback (both positive and negative)	1	1	1.6

15.01a Differentiate between various types of resilient floor coverings	15.01 define the main characteristics of resilient floor coverings 15.02 distinguish between different resilient floor covering materials and their composition 15.03 differentiate between various resilient floor covering materials including rubber, pvc, linoleum 15.04 distinguish between resilient floor coverings including: non-slip flooring, safety flooring, slip-resistant flooring, linoleum, lay flat 15.05 differentiate between contract and residential resilient floor covering types 15.06 describe the pre-installation handling and conditioning processes for resilient sheet and tile flooring 15.07 explain the requirements for installing pre-cut motifs and inlays and on-site design work, in both sheet and tile installations 15.08 demonstrate knowledge of post-installation maintenance for different resilient floor coverings	1	1	1.6

16.01a Compare installation methods for various types of resilient floor coverings, in domestic situations	16.01 illustrate the differences between contract and domestic installation methods for resilient floor coverings 16.02 describe how the individual properties of resilient floor coverings determine installation methods 16.03 illustrate the differences between homogeneous and heterogeneous resilient floor coverings 16.04 explain how homogeneous and heterogeneous resilient floor coverings determine installation and joining methods 16.05 evaluate the use of spray adhesive, double sided tape and cold weld for installing and joining domestic resilient flooring 16.06 assess the use of common domestic resilient flooring in wet and heavy wear areas	1	1	1.6

17.01a Compare installation methods for various types of resilient floor coverings, in contract situations	17.01 describe suitable installation areas and installation methods for resilient floor covering types 17.02 assess the suitability of installation methods for contract installations 17.03 describe the effects of heavy traffic and water on resilient floor coverings 17.04 describe the major differences between installation methods for different types of resilient floor coverings including: linoleum, PVC and rubber. 17.05 describe common resilient tile layout systems 17.06 demonstrate awareness of reasons for pre-installation conditioning of resilient floor coverings 17.07 describe batch numbers, shuffling and tessellation and their effects on colour variations 17.08 describe the process for selecting appropriate fixing adhesives 17.09 identify possible issues arising from use of the incorrect resilient floor covering or installation method	1	1	1.6

18.01a Evaluate the main differences between common installation methods for contract and domestic resilient floor coverings	18.01 differentiate between common contract and domestic resilient sheet flooring materials 18.02 compare installation methods for contract and domestic installations 18.03 identify the material pre-installation conditioning and how these are influenced in domestic and contract environments 18.04 compare contract and domestic seaming methods and components for common resilient sheet flooring materials 18.05 explain the purpose of various floor treatments and describe their use 18.06 compare the use of finishing and jointing trims, stair nosings and edge trims in contract and domestic installations 18.07 list the features of the main contract installation methods for resilient floor coverings 18.08 compare the differences between contract and domestic remedial procedures for identifying and rectifying installation issues	1	1	1.6

19.01a Demonstrate knowledge of sub-floor preparations and ancillaries used in the installation of resilient floor coverings	19.01 describe sub-floor requirements for the installation of resilient floor coverings 19.02 compare the benefits of common types of sub-floor preparations when installing resilient floor coverings 19.03 identify how resilient flooring materials can require specific sub-floor preparations 19.04 identify and compare appropriate nosings, edgings and finishing profiles for domestic and contract installations 19.05 compare the features and benefits of seam welding, cold welding, butt joins, double sided tape 19.06 identify appropriate seaming and joining methods for common types of resilient floor covering 19.07 explain the uses of sit on, set in and cove and cap perimeter finishing 19.08 explain the function of external and internal stringers 19.09 identify the function of diminishing strips and other PVC profiles 19.10 differentiate between stair nosing types and profiles 19.11 compare the differences between metal and UPVC nosings and trims 19.12 describe fixing methods for ancillaries 19.13 distinguish between edge finishing ancillaries for use in light and heavy traffic areas 19.14 investigate alternative methods of finishing edges	1	1	1.6

20.01a Identify laying directions and pattern matching techniques appropriate to resilient floor coverings	20.01 distinguish between setting out and planning needs for patterned and non-patterned resilient tiles and sheet 20.02 describe the effects of colour variation and patterns in domestic and contract resilient sheet flooring installations 20.03 explain the purposes of tessellation, in relation to resilient flooring tiles 20.04 identify the effect of patterns and salvedge matching on material quantities used in installations 20.05 explain the effect of elasticity on pattern matching resilient floor coverings 20.06 discuss methods for overcoming pattern matching issues caused by the elasticity of resilient floor coverings 20.07 compare usual practices for placing joins in contract and domestic resilient sheet installations	1	1	1.6

21.01a Describe the use of appropriate tools for use in installing resilient floor coverings	21.01 describe manual and mechanical tools for establishing the readiness of the sub-floor to receive resilient floor covering 21.02 explain the use of different sized notches for adhesive application 21.03 compare the results of adhesive application by trowel, spray and roller 21.04 list marking and scribing tools and explain their uses. 21.05 compare the use of bar scribers, templates, shape formers and other marking out methods 21.06 describe the effects of heat on different resilient flooring materials 21.07 provide examples of when it is appropriate or necessary to form joins using seam welding 21.08 compare the use of seam welding and the use of sealants 21.09 state the functions of light and heavy rollers	1	1	1.6
22.01a Compare installation methods for textile floor coverings	22.01 describe various installation methods for textile floor coverings 22.02 justify the suitability of installation methods for various textile floor coverings 22.03 describe how the individual properties of textile floor coverings determine appropriate installation methods 22.04 illustrate the differences between cut pile and loop pile and explain how this dictates seaming and joining methods 22.05 explain how installation method affects seaming and joining methods 22.06 identify suitable installation methods for areas subject to heavy and wheeled traffic and castor wear	1	1	1.6

23.01a Differentiate between textile floor coverings	23.01 compare methods of textile floor covering manufacture 23.02 define the main characteristics of woven carpet 23.03 distinguish between the main characteristics of wilton and axminster weave 23.04 define the main characteristics of secondary backed carpets 23.05 list common secondary backing materials and their uses 23.06 define the main characteristics of needlepunch floor covering 23.07 define the characteristics of fibre-bonded floor covering	1	1	1.6
24.01a Establish appropriate uses for textile floor coverings	24.01 illustrate suitable installation situations for different textile floor covering types 24.02 assess the suitability of installation methods for different installation areas 24.03 describe the effects of heavy traffic and castors on textile floor coverings 24.04 describe problems which could arise from the use of the incorrect textile floor covering 24.05 explain the use of finishing and jointing trims, stair nosings and edge trims 24.06 demonstrate knowledge of seaming methods and their suitability for use with different types of textile installation method	1	1	1.6

25.01a Compare the main differences between common textile floor covering installation methods	25.01 list the characteristics of the main installation methods for textile floor coverings 25.02 compare the advantages and disadvantages of these characteristics 25.03 predict possible issues with the main installation types 25.04 research solutions to possible issues inherent in different installation methods 25.05 research solutions to possible issues resulting from inappropriate installation methods	1	1	1.6
26.01a Demonstrate knowledge of underlays and ancillaries used in the installation of textile floor coverings	26.01 describe underlay types and their characteristics 26.02 differentiate between the benefits and issues of common types of underlay 26.03 identify appropriate situations for the use of different underlay types 26.04 identify appropriate gripper and finishing profiles for common installation methods 26.05 compare the use of standard and non-standard finishing profiles	1	1	1.6

27.01a Identify pattern matching for a variety of textile floor coverings	27.01 recognise standard and non-standard pattern match in textile floor coverings 27.02 identify pattern drop in textile floor coverings 27.03 explain the effect of carpet match and drop in planning installations for textile floor covering 27.04 explain the effect of carpet match and drop in calculating material quantities for textile floor covering 27.05 explain the effect of elasticity on pattern matching textile floor coverings 27.06 describe methods for resolving pattern matching issues caused by the elasticity of textile floor coverings 27.07 assess the impact of imperial pattern match on the following: metrically produced textile floor coverings, quantities 27.08 describe the effects of incorrect pattern matching	1	1	1.6
28.01a Describe the use of appropriate tools for use in installing textile floor coverings	28.01 describe common contract installation methods for textile floor coverings 28.02 differentiate between the use of knee kickers and power stretching to manipulate textile floor coverings 28.03 state reasons for using seaming tools such as Invisiseamers, row finders, loop pile cutters, etc 28.04 identify tools for efficient cutting and trimming in of textile floor coverings 28.05 distinguish between the purpose of gliders and rollers	1	1	1.6

29.01a Compare installation methods for various types of textile floor coverings, in domestic situations	29.01 justify the suitability of domestic installation methods for various textile floor coverings 29.02 describe how the individual properties of textile floor coverings determine installation methods 29.03 illustrate the differences between cut and loop pile and explain how this dictates seaming and joining methods 29.04 explain how installation method affects seaming and joining methods 29.05 identify suitable installation methods for areas subject to heavy and wheeled traffic, and castor wear	1	1	1.6
30.01a Differentiate between various types of textile floor coverings	30.01 compare methods of textile floor covering manufacture 30.02 define the main characteristics of woven carpet 30.03 distinguish between the stretch directions of wilton and axminster weave	1	2	3.3
30.01b Differentiate between various types of textile floor coverings	30.04 define the main characteristics of secondary backed carpets 30.05 list common secondary backing materials and their uses 30.06 define the main domestic uses for needlepunch and similar floor coverings	1		

31.01a Describe appropriate uses for various types of textile floor coverings	31.01 list areas suitable for installing textile floor coverings 31.02 assess the suitability of installation methods for domestic situations 31.03 describe the effects of heavy traffic and castors on textile floor coverings 31.04 list areas where textile floor coverings are generally unsuitable 31.05 describe the effects of problems which might arise from use of an incorrect textile floor covering	1	1	1.6
32.01a Compare the main differences between common textile floor covering domestic installation methods	32.01 list the features of the main domestic installation methods for textile floor coverings 32.02 compare the advantages and disadvantages of these features 32.03 describe problems which might occur with common domestic installation methods 32.04 describe the effects of problems resulting from inappropriate installation methods	1	1	1.6
33.01a Demonstrate knowledge of underlays and ancillaries used in the installation of textile floor coverings	33.01 describe underlay types and their characteristics 33.02 identify appropriate situations for the use of different underlay types 33.03 identify appropriate gripper and finishing profiles for domestic installations 33.04 compare the use of standard and non-standard finishing profiles 33.05 identify the function of stair rods and clips and discuss their use	1	1	1.6

34.01a Identify pattern matching for a variety of textile floor coverings	34.01 recognise standard and non-standard pattern match in textile floor coverings 34.02 identify pattern drop in textile floor coverings 34.03 explain the effect of carpet match and drop in planning installations for textile floor covering 34.04 explain the effect of carpet match and drop in calculating material quantities for textile floor covering 34.05 explain the effect of elasticity on pattern matching textile floor coverings 34.06 describe methods for resolving pattern matching issues caused by the elasticity of textile floor coverings 34.07 assess the impact of imperial pattern match and drop metrically produced textile floor coverings 34.08 discuss the possible outcomes from 34.07 and how this might affect material quantities 34.09 describe effects of incorrect pattern matching 34.10 describe the suitability of different seaming methods for common carpet types	1	1	1.6

35.01a Describe the use of appropriate tools for use in installing textile floor coverings	35.01 describe common domestic installation methods for textile floor coverings 35.02 differentiate between the use of knee kickers and power stretching to manipulate textile floor coverings 35.03 identify methods of forming joins in woven and non-woven textile floor coverings 35.04 state reasons for using seaming tools such as Invisiseamers, row finders, loop pile cutters, and other appropriate tools 35.05 identify tools for efficient cutting and trimming in of textile floor coverings	1	1	1.6
36.01a Know how to remove existing flooring materials, adhesives, paint and other residues	36.01 demonstrate knowledge and understanding of methods of waste disposal or recycling options for uplifted materials 36.02 explain how uplifted materials could be identified 36.03 demonstrate an understanding of problems caused by adhesive residues and other contaminants, when not removed. 36.04 describe manual, mechanical and chemical means of removing adhesive residue and contaminants	1	1	1.6

37.01a Differentiate between solid sub-floor types and their preparation	37.01 identify solid sub-floor types and their properties 37.02 distinguish between appropriate background preparations to suit resilient or textile floor coverings. 37.03 compare methods for the repair and preparation of common sub-floor types 37.04 explain the selection criteria for choosing sub-floor preparations 37.05 describe application methods for sub-floor preparations 37.06 explain the uses of various types of floor smoothing underlayments 37.07 distinguish between repair, smoothing and finishing flooring compounds 37.08 describe mixing methods and application systems for various floor smoothing compounds	1	1	1.6
38.01a Explain how overboarding is installed correctly	38.01 demonstrate knowledge of available overboarding materials and their qualities 38.02 list commonly available dimensions for boarding materials 38.03 describe guidelines for setting out and cutting in boards. 38.04 list correct distances between fixing points for common types of boarding materials 38.05 describe methods for finishing an overboarded floor, prior to installing floor coverings	1	1	1.6

39.01a Identify and communicate sub-floor preparation issues	39.01 describe the conditions for choosing sub-floor renovation, instead of renewal 39.02 compare the effects of employing different floor smoothing methods on wooden floors 39.03 compare the effects of employing different floor smoothing methods on solid floors 39.04 describe the implications of poor sub-floor preparation 39.05 demonstrate an understanding of sub-floor moisture content and appropriate treatments 39.06 explain the criteria for applying a damp proof membrane (DPM) 39.07 explain the purposes of sealers, primers and DPM 39.08 state the communication process for dealing with unforeseen sub-floor issues 39.09 identify the possible effects of dealing with unexpected sub-floor issues	1	1	1.6
40.01a Interpret layout information from a variety of sources	40.01 distinguish between setting out procedures for differing installation materials and methods 40.02 describe how to use basic equipment to transfer information onto floor and wall layouts including: chalk-line, straightedge, trammel, 40.03 describe advanced equipment which can be used to transfer layout information 40.04 compare the accuracy of traditional and modern marking out tools and methods 40.05 explain the scales and methods used to produce layout drawings and floor plans designed for floor coverings	1	1	1.6

41.01a Explain how to estimate resources for setting out procedures	41.01 differentiate between architectural plans, design drawings, floor layouts, specifications and estimates 41.02 explain the difference between floor area covered and actual material quantities required 41.03 Explain how the principles of quantity surveying relate to actual material quantities required 41.04 describe the differences in setting out procedures for: standard resilient tile and sheet materials, border and inlay resilient materials 41.05 compare the differences between setting out for basic stretch fit installation and methods for border, body and tile 41.06 explain the reasons different setting out methods are used for stretch fit installations	1	1	1.6
42.01a Explain how to identify and communicate setting out issues	42.01 produce a list of appropriate setting out and marking tools and methods 42.02 explain the importance of accuracy in the setting out process 42.03 explain how accurate setting out can be crucial in delivering a successful installation	1	2	3.3
42.01b Explain how to identify and communicate setting out issues	42.04 describe the normal communication process for resolving issues identified during setting out 42.05 list problems that could occur as a result of incorrect setting out	1		
	TOTAL	33	33	55

Paper: **6314-221** Paper title: **Roof Sheeting and Cladding**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total No of Qs	%
12.01a Explain how to check backgrounds & structure for line & level	12.01 identify suitability of structure or fixing background for installation of materials including; vertical plane, horizontal plane, line & level	1	4	8.3
12.01b Explain how to check backgrounds & structure for line & level	12.01 identify suitability of structure or fixing background for installation of materials including; vertical plane, horizontal plane, line & level	1		
12.01c Explain how to check backgrounds & structure for line & level	12.02 identify limitations of specified roofing or cladding materials for the following: span capability, bearing dimension tolerance, fixing positions	1		
12.01d Explain how to check backgrounds & structure for line & level	12.02 identify limitations of specified roofing or cladding materials for the following: span capability, bearing dimension tolerance, fixing positions	1		
13.01a Explain how materials should be placed ready for installation	13.01 Explain how materials must be placed safely and in correct position in readiness for installation	1	1	1.6
14.01a Describe the maintenance and use of tools & equipment for installing roof sheeting and accessories	14.01Explain what tool is required for the following applications: - cutting flat material - cutting profile sheets - Drilling various thickness - Insertion of screws - insertion of rivets	1	2	3.3

14.01b Describe the maintenance and use of tools & equipment for installing roof sheeting and accessories	14.02 Explain how each tool should be inspected, stored and maintained 14.03 Explain reporting procedures for faulty tools & equipment	1		
15.01a Explain the preparation process for installation of over purlin lining and insulation (double skin systems)	15.01 Identify correct materials from drawing or schedule	1	3	5
15.01b Explain the preparation process for installation of over purlin lining and insulation (double skin systems)	15.02 Identify sequence of installation for each component including: liner, vapour control layer, sealant, fillers, spacer bracket or halter, spacer bar, Insulation, breather membrane, outer sheet, fixings	1		
15.01c Explain the preparation process for installation of over purlin lining and insulation (double skin systems)	15.03 identify special features required from drawings or specification including: roof lights, apertures, safety lines	1		
16.01a Describe how to Install a double skin insulated system	16.01 describe installation of roof system using correct materials including: liner, vapour control layer, sealant, fillers, spacer bracket or halter, spacer bar, Insulation, breather membrane, outer sheet, fixings, avoid cold bridging, make airtight, make water tight	1	5	8.3
16.01b Describe how to Install a double skin insulated system	16.02 identify special features including: roof lights, vents, apertures, safety lines	1		

16.01c Describe how to Install a double skin insulated system	16.02 Identify correct fixing medium including: type and size of screw, type and size of rivet, application of non standard fixing	1		
16.01d Describe how to Install a double skin insulated system	16.02 Identify correct fixing medium including: type and size of screw, type and size of rivet, application of non standard fixing	1		
16.01e Describe how to Install a double skin insulated system	16.02 Identify correct fixing medium including: type and size of screw, type and size of rivet, application of non standard fixing	1		
17.01a Install composite panels to roof and walls	17.01 Explain the procedures to install composite panels including: to roofs, walls vertically & horizontally	1	4	6.6
17.01b Install composite panels to roof and walls	17.02 identify special features including: roof lights, vents, apertures, safety lines	1		
17.01c Install composite panels to roof and walls	17.03 explain procedures to make connections and laps airtight, watertight, avoid cold bridging, correct sealant	1		
17.01d Install composite panels to roof and walls	17.04 Identify correct fixing medium for application including: type and size of screw, rivet, application of non standard fixing	1		
18.01a Establish and use specified setting out points for gutter type and outlet positions	18.01 Demonstrate ability to identify setting out points	1	4	6.6
18.01b Establish and use specified setting out points for gutter type and outlet positions	18.02 select correct component	1		

18.01c Establish and use specified setting out points for gutter type and outlet positions	18.03 determine position of outlets	1		
18.01d Establish and use specified setting out points for gutter type and outlet positions	18.04 determine rainwater pipe positions	1		
19.01a Prepare for installation of rainwater goods	19.01 Describe methods for checking components for suitability	1	4	6.6
19.01b Prepare for installation of rainwater goods	19.02 checking structure for adequacy and alignment	1		
19.01c Prepare for installation of rainwater goods	19.03 cutting materials to length if required	1		
19.01d Prepare for installation of rainwater goods	19.04 pre-connecting components	1		
20.01a Install gutters	20.01Explain how to install gutter support brackets at prescribe centres level or to falls 20.02 Explain how to install valley gutters constructed from various materials using the specified joining and sealing medium	1	5	8.3
20.01b Install gutters	20.03 explain sequence for tightening bolts or screws 20.04 Explain how to install boundary wall gutters using constructed from various materials	1		
20.01c Install gutters	20.05 Explain selection of joining and sealing medium	1		

20.01d Install gutters	20.06 Explain how to install eaves gutters constructed from UPVC, metal or GRP	1		
20.01e Install gutters	20.07 Explain how to install stop-ends; outlets; sumps; leaf guards	1		
21.01a Install rainwater pipes	21.01 Explain how to install rainwater pipes including rainwater pipes; swan necks & off sets; brackets; hoppers	1	1	1.6
	TOTAL	33	33	55

Paper: **6314-222** Paper title: **Thatching**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome/ Section	Underpinning Knowledge	No of items	Total No of Qs	%
12.01a Identify the suitability of materials and equipment for the work	12.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1	5	8.3
12.01b Identify the suitability of materials and equipment for the work	12.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1		
12.01c Identify the suitability of materials and equipment for the work	12.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1		
12.01d Identify the suitability of materials and equipment for the work	12.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1		
12.01e Identify the suitability of materials and equipment for the work	12.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1		
13.01a Evaluate the roof structure prior to thatching	13.01 Evaluate working surfaces 13.02 Describe hazards relating to roof preparation	1	4	6.6

13.01b Evaluate the roof structure prior to thatching	13.01 Evaluate working surfaces 13.02 Describe hazards relating to roof preparation	1		
13.01c Evaluate the roof structure prior to thatching	13.01 Evaluate working surfaces 13.02 Describe hazards relating to roof preparation	1		
13.01d Evaluate the roof structure prior to thatching	13.01 Evaluate working surfaces 13.02 Describe hazards relating to roof preparation	1		
14.01a Explain preparation procedures prior to thatching	14.01 Describe defects that will affect the installation of thatching materials 14.02 Describe the characteristics of working surfaces 14.03 Explain the importance of checking the surface condition	1	3	5
14.01b Explain preparation procedures prior to thatching	14.01 Describe defects that will affect the installation of thatching materials 14.02 Describe the characteristics of working surfaces 14.03 Explain the importance of checking the surface condition	1		
14.01c Explain preparation procedures prior to thatching	14.04 Explain the importance of the following processes: stripping, cutting out, reinforcing, making good	1		
	14.05 Identify methods of overcoming problems in preparation			

15.01a Know how to prepare the roof surface prior to thatching	15.01 Explain why material has to be removed during the preparation process	1	6	10
	15.02 Describe the effects of incomplete preparation			
15.01b Know how to prepare the roof surface prior to thatching	15.05 Explain how to prepare a basecoat	1		
15.01c Know how to prepare the roof surface prior to thatching	15.07 Describe methods of work according to the material used	1		
15.01d Know how to prepare the roof surface prior to thatching	15.07 Describe methods of work according to the material used	1		
15.01e Know how to prepare the roof surface prior to thatching	15.09 Explain the reason for selecting types of material	1		
15.01f Know how to prepare the roof surface prior to thatching	15.11 Evaluate the benefits of different types of thatching materials	1		
16.01a Know how to identify the suitability of materials required for thatching	16.01 Identify the suitability of materials for thatching including: threshed straw, combed wheat reed, water reed, sedge grass, coppice materials, specialist thatching materials, wire netting	1	4	6.6
16.01b Know how to identify the suitability of materials required for thatching	16.01 Identify the suitability of materials for thatching including: threshed straw, combed wheat reed, water reed, sedge grass, coppice materials, specialist thatching materials, wire netting	1		

16.01c Know how to identify the suitability of materials required for thatching	16.01 Identify the suitability of materials for thatching including: threshed straw, combed wheat reed, water reed, sedge grass, coppice materials, specialist thatching materials, wire netting	1		
16.01d Know how to identify the suitability of materials required for thatching	16.02 Identify defects in material and know the relevant action to take including: report to superior, return to supplier, select alternative usage	1		
17.01a Understand the importance of protecting materials from damage	17.01 Explain the importance of protecting material from damage caused by: hazards, weather, vermin, location	1	1	1.6
18.01a Identify the suitability of materials and equipment for the work	18.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1	3	5
18.01b Identify the suitability of materials and equipment for the work	18.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1		
18.01c Identify the suitability of materials and equipment for the work	18.01 Identify suitable materials and equipment including: hand tools, portable power tools, access equipment, fixings, materials	1		
19.01a Understand the importance of protecting the work area from damage	19.01 Explain the importance of protecting the work area from damage caused by: weather, other occupations	1	1	1.6
20.01a Understand the importance of correct positioning and securing of materials	20.01 Explain the importance of securely fixing materials to supporting structure or basecoat	1	6	10

20.01b Understand the importance of correct positioning and securing of materials	20.01 Explain the importance of securely fixing materials to supporting structure or basecoat	1		
20.01c Understand the importance of correct positioning and securing of materials	20.03 Explain the importance of cover over fixings	1		
20.01d Understand the importance of correct positioning and securing of materials	20.04 Explain the importance of: pitch, density, tension and thickness of coatwork	1		
20.01e Understand the importance of correct positioning and securing of materials	20.04 Explain the importance of: pitch, density, tension and thickness of coatwork	1		
20.01f Understand the importance of correct positioning and securing of materials	20.05 Explain the importance of correctly and securely fixing the wire netting 20.06 Understand mortar mixes for flashings	1		
	TOTAL	33	33	55

Paper: **6314-223** Paper title: **Fitted Interiors**

Duration: **90 minutes** Assessment type: **Multiple Choice** No of items: **60**

Outcome / Section	Underpinning Knowledge	Number of items	Total No of Qs	%
12.01a Know how to prepare to install fitted furniture	12.01 Explain how to remove existing units and fittings and dispose of safely without damaging the surrounding area	1	8	13.3
12.01b Know how to prepare to install fitted furniture	12.02 Identify various finishes including: veneers such as ash cherry oak or maple, laminate finishes and solid hardwood stone and resin	1		
12.01c Know how to prepare to install fitted furniture	12.03 Describe various lay-outs of wall and floor units including: wall and floor units in standard kitchens as well as those with peninsular and island arrangements and glass components, fitted bathroom and bedroom units, flat packed and ready assembled	1		
12.01d Know how to prepare to install fitted furniture	12.04 Explain how to remove existing units and fittings and dispose of safely without damaging the surrounding area	1		
12.01e Know how to prepare to install fitted furniture	12.05 Identify various finishes including: veneers such as ash cherry oak or maple, laminate finishes and solid hardwood stone and resin	1		
12.01f Know how to prepare to install fitted furniture	12.06 Describe various lay-outs of wall and floor units including: wall and floor units in standard kitchens as well as those with peninsular and island arrangements and glass components, fitted bathroom and bedroom units, flat packed and ready assembled	1		
12.01g Know how to prepare to install fitted furniture	12.07 Explain how to remove existing units and fittings and dispose of safely without damaging the surrounding area	1		

12.01h Know how to prepare to install fitted furniture	12.08 Identify various finishes including: veneers such as ash cherry oak or maple, laminate finishes and solid hardwood stone and resin	1		
13.01a Know how to install fitted furniture	13.01 Explain how to fix units together and to different wall constructions and floor finishes using appropriate mechanical means	1	10	16.6
13.01b Know how to install fitted furniture	13.02 Explain how to install worktops accurately including: cut out for drainers, sinks and hobs, internal and external mitres/butt-scribes, bonding laminate and edging with adhesive, and sealing with mastic	1		
13.01c Know how to install fitted furniture	13.03 Explain the importance of using properly maintained and sharpened hand and power tools	1		
13.01d Know how to install fitted furniture	13.04 Explain how to box in encasing services and appliances accurately	1		
13.01e Know how to install fitted furniture	13.05 Explain how to finish services including: fitting timber plastic and non-ferrous metal mouldings scribed and mitred as appropriate	1		
13.01f Know how to install fitted furniture	13.06 Explain how to fix units together and to different wall constructions and floor finishes using appropriate mechanical means	1		
13.01g Know how to install fitted furniture	13.07 Explain how to install worktops accurately including: cut out for drainers, sinks and hobs, internal and external mitres/butt-scribes, bonding laminate and edging with adhesive, and sealing with mastic	1		
13.01h Know how to install fitted furniture	13.08 Explain the importance of using properly maintained and sharpened hand and power tools	1		
13.01i Know how to install fitted furniture	13.09 Explain how to box in encasing services and appliances accurately	1		
13.01j Know how to install fitted furniture	13.10 Explain how to finish services including: fitting timber plastic and non-ferrous metal mouldings scribed and mitred as appropriate	1		

14.01a Describe how to remove and install plumbing fixtures	14.01 Explain how to decommission and remove existing fixtures and fittings including: sinks, basins, baths, taps, shower trays, waste services, wc's, bidets, laundry appliances and dishwashers	1	6	10
14.01b Describe how to remove and install plumbing fixtures	14.02 explain the use of the various types of information including: Plans, Scale drawings, Job sheets, Specifications, Schedules, Cutting lists, Component range drawings, Manufacturers catalogues, Building regulations	1		
14.01c Describe how to remove and install plumbing fixtures	14.03 explain how to set out for fitting of fixtures and how to use them	1		
14.01d Describe how to remove and install plumbing fixtures	14.04 explain how to install and seal fixtures to ensure no leaks	1		
14.01e Describe how to remove and install plumbing fixtures	14.05 Explain how to decommission and remove existing fixtures and fittings including: sinks, basins, baths, taps, shower trays, waste services, wc's, bidets, laundry appliances and dishwashers	1		
14.01f Describe how to remove and install plumbing fixtures	14.06 explain the use of the various types of information including: Plans, Scale drawings, Job sheets, Specifications, Schedules, Cutting lists, Component range drawings, Manufacturers catalogues, Building regulations	1		
15.01a Describe how to Install plumbing	15.01 Explain how to install water supply plumbing including: cut bend and fix copper and plastic pipes to wall, fit and fix, taps valves and pumps	1	9	15
15.01b Describe how to Install plumbing	15.02 Describe the tools required for the work including: well maintained hand and power tools	1		

15.01c Describe how to Install plumbing	15.03 Explain the proper and safe use of compression, push fit and capillary copper fittings in compliance with current water regulations	1		
15.01d Describe how to Install plumbing	15.01 Explain how to install water supply plumbing including: cut bend and fix copper and plastic pipes to wall, fit and fix, taps valves and pumps	1		
15.01e Describe how to Install plumbing	15.02 Describe the tools required for the work including: well maintained hand and power tools	1		
15.01f Describe how to Install plumbing	15.04 Explain how to install (cut and fix to wall) waste services using tools	1		
15.01g Describe how to Install plumbing	15.06 Describe the proper and safe installation of discharge pipe work using push fit, compression and solvent weld pipe and fittings	1		
15.01h Describe how to Install plumbing	15.04 Explain how to install (cut and fix to wall) waste services using tools	1		
15.01i Describe how to Install plumbing	15.06 Describe the proper and safe installation of discharge pipe work using push fit, compression and solvent weld pipe and fittings	1		
	TOTAL	33	33	55