

7906-30 Level 3 Advanced Technical Diploma in Site Carpentry
7906-001 and 501 Level 3 in Site Carpentry –Theory exam

March 2022 Mark Scheme

Q	Acceptable answer(s)	Guidance	Max marks	Ref
1	B		1	301.01.02
2	A		1	301.02.03
3	A		1	301.03.01
4	D		1	301.04.01
5	B		1	301.04.02
6	C		1	301.06.02
7	D		1	305.01.01
8	B		1	305.02.02
9	C		1	306.01.04
10	A		1	306.05.01

Q11	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>Any three of the following for one mark each, maximum three marks</p> <ul style="list-style-type: none"> • Solar • Photovoltaic • Wind turbines • Air source • Ground source • Hydro/ tidal • Bio fuel 	N/A	3	301.02.04 AO1

Q12	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>Any four of the following for one mark each, maximum four marks</p> <ul style="list-style-type: none"> • <u>Planned start dates</u> (individual tasks and holistic) • <u>Planned end dates</u> (individual tasks and holistic) • <u>Actual start dates</u> (individual tasks and holistic) • <u>Actual end dates</u> (individual tasks and holistic) • <u>Plant</u> requirements • <u>Labour</u> requirements • <u>Material</u> requirement 	N/A	4	301.04.01 AO1

Q13	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response covering the following points for a maximum of four marks, two marks for each</p> <ul style="list-style-type: none"> • <u>Add insulation</u> (loft, EWI, dry line, double/triple glazing (1 mark)), this will <u>increase the thermal</u> properties of the building <u>reducing heat loss</u> (1 mark) • <u>Reduce energy consumption</u> (TRV, fuel efficient boilers radiators, use PIRs, LED lighting) (1 mark), this will <u>reduce the use of fossil/non-renewable fuels</u> making the building <u>more energy efficient/lowering carbon footprint</u> (1 mark) • <u>Install renewable energy sources</u> (Solar panel, wind turbine) air /ground source heat pumps (1 mark), this will improve the 	If the candidate list examples with no reasons award maximum two marks	4	301.02.04 AO2

	buildings energy <u>efficiency/lowering carbon footprint</u> (1 mark)			
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Q14	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response covering the following points for a maximum of four marks</p> <p>3.4 ÷ 0.115 = 29.56 rounded up 30 (1 mark) 30 x 4.2 = 126 (1 mark) 126+5% waste 6.3 m (1 mark)</p> <p>132.3 linear metre (4 marks)</p>	<p>One mark for each correct stage as shown or as appropriate where a candidate hasn't got the final quantity correct</p>	4	301.03.02 AO2

Q15	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response covering the following points for a maximum of six marks, two marks for each</p> <p>a) Bill of quantities - Will provide <u>the materials</u> (1 mark) and labour requirements (1 mark)</p> <p>b) Door Schedule – Will provide <u>details on types and sizes of doors</u> (1 mark). <u>information on the fixing locations</u> (1 mark)</p> <p>c) Drawings – Provides information such as <u>construction details</u> (1 mark) and complexity of the work (1 mark) Visual image of the completed task (1 mark)</p>	N/A	6	301.03.02 301.03.03 AO2

Q16	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>Any two of the following for one mark each, maximum two marks</p> <ul style="list-style-type: none"> • UV • Weathering • Wet rot • Poor workmanship • Poor maintenance • Infestation • Wear and tear • Dry rot 	N/A	2	305.01.01 AO1

Q17	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response covering the following points for one mark each, maximum four marks</p> <p>Planned maintenance of the building will reduce</p> <ul style="list-style-type: none"> • <u>down time of facilities</u> (1 mark), • <u>reduction of labour costs</u> (1 mark) and reduction in <u>material cost</u> (1 mark) as materials are ordered as needed • it will <u>maximise the life span</u> of existing components (1 mark) 	N/A	4	305.01.02 AO2

Q18	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response as follows for one mark each, maximum four marks</p> <p>a) Dust – COSHH b) Guard setting – BWF card/ACOP/HSE guidance sheet/PUWER (any one) c) Machine maintenance – Manufacturer’s information d) Chip limited tooling – ACOP/PUWER</p>	N/A	4	306.01.01 AO1

Q19	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response as follows for a maximum of six marks, one mark for each</p> <ul style="list-style-type: none"> • Isolate machine • Remove all guards • Remove blade • Clean machine • Fit new blade ensuring correct type, size and rotation • Refit all guards • Test run before use 	N/A	6	306.02.02 AO1

Q20	Acceptable answer(s)	Guidance	Max mks	Ref
	<p>A response covering the following points for a maximum of four marks</p> <ul style="list-style-type: none"> • It is a <u>Legal requirement</u> under PUWER • It <u>reduces number of accidents/ injuries</u> • It <u>reduces the severity of injuries</u> • It improves <u>productivity</u> • It <u>increases machinery lifespan</u> • It increases the quality of components produced • Identify the PPE requirements • Aware of Emergency procedures 	N/A	4	306.01.03 AO2

Q21	Acceptable answer:	Guidance:	Max marks	Ref
	<p>a) A response covering the following points for a maximum of two marks</p> <ul style="list-style-type: none"> • At least 450 mm long to allow <u>for holding while maintaining a safe working clearance (1 mark) of 300 mm from the blade (1 mark)</u> 	N/A	4	306.03.02 AO2
	<p>b) A response covering the following points for a maximum of two marks</p> <ul style="list-style-type: none"> • Have a bird's mouth ensures <u>positive contact (1 mark) with the work piece without slipping or kick back (1 mark)</u> 			

Q22	Acceptable answer:	Guidance:	Max marks	Ref
	<p>A response covering the following points for a maximum of three marks</p> <p>Poor housekeeping would</p> <ul style="list-style-type: none"> • Result in <u>blocked extraction</u> systems due to bags not being emptied • Increased <u>down time</u> • <u>Damages to products</u> • <u>Damage to machine</u> • Debris causing <u>unsafe working environments</u> • <u>Machine blocked/jammed with debris</u> 	N/A	3	306.04.01 AO2

Q23	Acceptable answers	Guidance	Max marks	Ref
	<p>Band 1 (1-4 marks) Response shows limited knowledge of the planning and remedial work requirements. No consideration given to the scenario. The response is brief and lacking detail and structure. In order to access higher marks response demonstrated some cohesion shown</p> <p>Band 2 (5-8 marks) Response shows some understanding of the planning and remedial work requirements. Some consideration given to the scenario. The response is adequate and shows some detail and structure. In order to access higher marks response demonstrated reasonable cohesion with some gaps detail.</p> <p>Band 3 (9-12 marks) Response shows comprehensive understanding of the planning and remedial work requirements. The response is detailed and well-structured. In order to access higher marks the response will include strong attention to detail through a cohesive and thorough discussion across all areas.</p>	<p>Indicative content</p> <p>Planning</p> <ul style="list-style-type: none"> • Working hours • Risk assessments/ method statements • Sourcing specialist treatment • Waste disposal • Second seasoning • Sourcing fixings as required • Programme of work • Seeking relevant permissions for scaffolding etc • Checking listed status <p>Remedial action</p> <ul style="list-style-type: none"> • Make structure watertight • Remove infected components and treatment areas and new components • Install replacement components • House keeping 	12	AO4