

7906-30 Level 3 Advanced Technical Diploma in Site Carpentry
7906-501 Level 3 in Site Carpentry –Theory exam (1)

March 2024 Mark Scheme

Q	Acceptable answer(s)	Guidance	Max marks	Ref
1	B		1	301.01.01
2	C		1	301.02.02
3	A		1	301.02.03
4	B		1	301.03.02
5	C		1	301.05.01
6	B		1	301.06.01
7	D		1	305.01.01
8	B		1	305.02.01
9	D		1	306.02.02
10	D		1	306.04.01

Q11	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>A response as follows for one mark each, maximum three marks.</p> <ul style="list-style-type: none"> • Air tightness. • Water harvesting. • Types of lighting. <p>Other possible answers could include.</p> <ul style="list-style-type: none"> • Position of insulation. • Renewable energy sources. • Double /Triple glazing. • Locations of door windows • Cavity walls. 	N/A	3	301.02.04 AO1

Q12	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>A response covering the following points for a maximum of four marks.</p> <p>It provides information about substances that can be harmful to health, including (1 mark) handling (1 mark) storage (1 mark), transportation, (1 mark) and control measures (1 mark).</p> <p><u>Other acceptable answers could include</u></p> <ul style="list-style-type: none"> • Safe systems of work (1 mark). • Gives recommended <u>exposure limits</u> (1 mark). 	N/A	4	301.01.01 AO1

Q13	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>Any four of the following for one mark each, maximum four marks.</p> <ul style="list-style-type: none"> • Labour costs. • Materials. • Plant and equipment. • Overheads. • Profit margins. • VAT. • Special considerations for listed buildings etc. • Waste removal. • Client's budget/brief. • Install renewable energy sources (Solar panel, wind turbine) air /ground source heat pumps (1 mark), this will improve the 	Examples are acceptable, but no additional marks should be given where more than one example is given per heading.	4	301.03.03 AO1

	<p>buildings energy efficiency/lowering carbon footprint (1 mark).</p> <p>Accept BoQ as this contains a list of material and labour requirements (1 mark).</p>			
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Q14	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>a) A response covering the following points for a maximum of two marks.</p> <p>Bill of quantities – provides the quantities of materials for the job and the labour requirements (1 mark). This will allow for calculating the costing of materials and labour for the quote (1 mark).</p>	N/A	2	301.03.02 301.03.03 AO2
	<p>b) A response covering the following points for a maximum of two marks.</p> <p>Specification – provides the detail of the quality of materials and the fitting tolerances (1 mark). This identifies if any specialist labour or materials is required which will affect the cost of the quote (1 mark).</p>		2	
	<p>c) A response covering the following points for a maximum of two marks.</p> <p>Drawings – provide information to ascertain the complexity of the work (1 mark), allowing for accurate calculation of duration for labour costs (1 mark). Provides a pictorial view helping to visual the job when costing (1 mark). Displays dimensions (1 mark).</p>		2	

Q15	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>A response covering the following points for a maximum of four marks.</p> <p>Discussing <u>planned activities</u> to ensure <u>productive and effective workflow</u> (1 mark).</p> <p><u>Monitoring progress</u> to ensure <u>work plans are being met and sufficient resources are available when required</u> (1 mark).</p> <p><u>Shares clear actions and objectives</u> for efficient production (1 mark). It is <u>recorded</u> so that people</p>	<p>If candidates mention who is involved in the meeting one mark can be awarded (ie It can be between <u>supervisors, management and client representative</u> <u>(where appropriate)</u>)</p>	4	301.05.01 AO2

	can refer to it after the meeting to ensure understanding (1 mark) . <u>Support needs</u> can be discussed (1 mark) . Allows for <u>two-way discussions resolving problems</u> (1 mark) . Face to face <u>positive engagement</u> (1 mark) .			
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Q16	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>Any two of the following for one mark each, maximum two marks.</p> <ul style="list-style-type: none"> • Poor maintenance. • Poor quality installation. • Design faults. • Storm damage. • Water ingress. • Wear and tear. • UV damage. • Weathering. • Blocked vents/increase moisture content/poor ventilation (either one for one mark). 	<p>Any other answer acceptable.</p> <p>Do not accept dry and wet rot as these are outcomes, not cause.</p>	2	305.01.01 AO1

Q17	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>A response covering the following points for a maximum of four marks.</p> <p>A schedule of inspection and a routine maintenance programme (1 mark), Unplanned is a reactive measure to a given maintenance condition (1 mark). Planned maintenance reduces downtime (1 mark) compared to unplanned which has greater downtime (1 mark) Planned maintenance is more cost effective (1 mark), unplanned is more expensive (1 mark)</p> <p>Any other answers acceptable.</p>	N/A	4	305.01.02 AO2

Q18	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>Any four of the following for one mark each, maximum of four marks.</p> <ul style="list-style-type: none"> • Sharp tooling. • Dust. • Chip ejection. • High noise levels. • Incorrect manual handling. • Moving parts. • Electricity. • Insufficient training <p>Any other answers acceptable.</p>	If risks listed award a maximum of two marks.	4	306.01.04 AO1

Q19	Acceptable answer(s)	Guidance	Max marks	Ref
	<p>A response covering the following points for a maximum of six marks. Any six in a logical sequence.</p> <p>Isolate machine (1 mark), check chisel/auger is the correct size and fit for purpose (1 mark), if the chisel/auger is blunt, change (1 mark). Set the auger clearance (1 mark) and check it is square to the fence (1 mark). Set the depth stop (1 mark) and additional support (1 mark). Carry out test (1 mark).</p>	N/A	6	306.05.01 AO1

Q20	Acceptable answer(s)	Guidance	Max marks	Ref																
	<p>A response covering the following or similar for a maximum of four marks, one marks each.</p> <table border="1" data-bbox="257 555 1243 901"> <thead> <tr> <th data-bbox="257 555 452 627">The hazard</th> <th data-bbox="452 555 696 627">The risk</th> <th data-bbox="696 555 958 627">Who is affected</th> <th data-bbox="958 555 1243 627">The control measure</th> </tr> </thead> <tbody> <tr> <td data-bbox="257 627 452 699">Rotating cutters</td> <td data-bbox="452 627 696 699">Contact with cutters</td> <td data-bbox="696 627 958 699">Operative</td> <td data-bbox="958 627 1243 699">Use of guards and training</td> </tr> <tr> <td data-bbox="257 699 452 799">Manual handling</td> <td data-bbox="452 699 696 799">Muscular skeletal injury</td> <td data-bbox="696 699 958 799">Operative and assistant</td> <td data-bbox="958 699 1243 799">Support roller, manual handling training</td> </tr> <tr> <td data-bbox="257 799 452 901">Noise</td> <td data-bbox="452 799 696 901">Damage to hearing</td> <td data-bbox="696 799 958 901">Operative, workers nearby and assistant</td> <td data-bbox="958 799 1243 901">Use of ear defenders</td> </tr> </tbody> </table>	The hazard	The risk	Who is affected	The control measure	Rotating cutters	Contact with cutters	Operative	Use of guards and training	Manual handling	Muscular skeletal injury	Operative and assistant	Support roller, manual handling training	Noise	Damage to hearing	Operative, workers nearby and assistant	Use of ear defenders	<p>Any other relevant answers acceptable</p> <p>If hazard and risk is implausible award no marks for who is affected and control measures.</p>	4	306.01.04 AO2
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Q21	Acceptable answer:	Guidance:	Max marks	Ref
	<p>A response covering the following points for a maximum of four marks, two marks for each.</p> <p>One mark for cause to maximum of two marks and One mark for the remedial action to maximum of two marks.</p> <ul style="list-style-type: none"> Tracking is incorrect (1 mark), <u>adjust tracking</u> (1 mark) so the <u>blade runs</u> straight. Tension is too low (1 mark), <u>set the tension</u> (1 mark) to the <u>manufactures' guidance</u>. Incorrectly set guide assembly (1 mark), <u>adjust guide assembly</u> to match the blade (1 mark). 	N/A	4	306.02.01 AO2

Q22	Acceptable answer:	Guidance:	Max marks	Ref
	<p>A response covering the following points for a maximum of three marks.</p> <ul style="list-style-type: none"> Produce suitable jig/template (1 mark). Set blade, guard and fence (1 mark). Machine safely, (workpiece support, appropriate safety aids used, additional person taking off) (1 mark). 	N/A	3	306.03.01, 03.02, 03.03 AO2

Q23	Acceptable answers	Guidance	Max marks	Ref
	<p>Band 1 (1-4 marks)</p> <p>Response shows limited understanding to the planning/consent. Little or no considerations given to specialist supplies, and second seasoning. Little or no considerations given to methods of planning requirements, sourcing and replacement of components including waste disposal.</p> <p>In order to access higher marks response should show some details of the considerations with some justifications.</p> <p>Band 2 (5-8 marks)</p> <p>Response shows good understanding of the planning/consent requirements. Some consideration given to specialist supplies, and second seasoning. Some consideration given to methods of planning requirements, sourcing and replacement of components including waste disposal.</p> <p>In order to access higher marks response shows good detail linking each part of the process.</p> <p>Band 3 (9-12 marks)</p> <p>Response shows detailed understanding of the planning/consent requirements. Consideration given to specialist supplies, and second seasoning. Compressive detail given to methods of planning required and the sourcing and replacement of components including waste disposal.</p> <p>In order to access higher marks the response will include strong attention to detail through a cohesive and thorough discussion across all areas. 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"> • Conservation, heritage. Listed building consent. • Working hours. • Risk assessments/ method statements <ul style="list-style-type: none"> ○ Protection of public • Sourcing materials <ul style="list-style-type: none"> ○ Like for like • Sourcing specialist treatment • Waste disposal. • Second seasoning. • Sourcing fixings as required. • Welfare facilities. <p>Replacement</p> <ul style="list-style-type: none"> • Reclaim existing fixings. • Dimensioning boards as required using appropriate tools. • Fitting/Fixing the boards. • Treatment. • Housekeeping. • Disposal of waste. <p>Other answer relevant to the task will be accepted.</p>	<p>12</p>	<p>Integrated across units 301, 305 and 306 AO4</p>