

Qualification: 7906-30 Level 3 Advanced Technical Diploma in Site Carpentry (450)

Exam Title: 7906-001/501 Level 3 Site Carpentry – Theory Exam

Version: June 2018

Mark Scheme

Q	Acceptable answer(s)	Guidance	Max Marks
1	В		1
2	D		1
3	С		1
4	D		1
5	С		1
6	А		1
7	С		1
8	В		1
9	В		1
10	А		1

11 a)	List three types of planning permission.		
	Acceptable answer(s)	Guidance	Max mks
	Answers should include the following for three marks, one mark for each		3
	 Outline planning Detailed planning Listed building consent Permitted development 		
11 b)	Summarise two of the planning permission listed in 11 a))	
	Acceptable answer(s)	Guidance	Max mks
	The candidate will need to give a broad overview of two of the following for maximum two marks for each		4
	• Outline planning –can be used to find out whether a proposed development is acceptable to the local planning authority, before substantial costs are incurred in developing a detailed design.		
	• Detailed planning –submit all the details of the proposed development at the same time.		
	 Listed building consent –If you want to alter or extend a listed building in a way that affects its character or appearance of a building of special architectural or historic interest, or even demolish it, you must first apply for listed building consent from your local planning authority. Permitted development- You can perform certain types of work without needing to apply for planning permission. They derive from a general planning permission granted not by the local authority but by Parliament. Bear in mind that the permitted development rights which apply to many common projects for houses do not apply to flats, maisonettes or other buildings. 		

12	Describe the information sources that would be con	sulted to accurately submit a te	nder.
	Acceptable answer(s)	Guidance	Ma x mks
	If the candidate gives a list of answers with no details maximum two marks can be awarded If the candidate gives a full explanation maximum five marks can be awarded		5
	Answers could include the following with a description: • specifications • drawings • schedules • bill of quantities • prefered suppliers • waste percentages		
13	A carpenter is working on a building site and there has been a near miss incident. As a precaution it has been decided to communicate safety information to all staff. Describe two methods of communicating the safety information to the work force.		
	Acceptable answer(s)	Guidance	Ma x mks
	If the candidate list two of the method with no description maximum one mark awarded. If the candidate list two of the method with a		4
	description maximum fours marks awarded Answers could include the following		
	 Verbal- via toolbox talk, one to one discussions, training sessions Written- risk assessments, method statements Electronic- emails, text Visual information- signs, posters 		
14	Explain the advantages of clear and concise communicat of the building team during a construction project.	tion when co-operating with memb	pers
	Acceptable answer(s)	Guidance	Ma x mks

	 If the candidate gives a list of answers with no details maximum two marks can be awarded. If the candidate gives a full explanation maximum five marks can be awarded. Answers should cover the following points, with details how and why they are advantages of clear and concise communication. Time saving Efficient working Minimises errors Save resources Improves working relationships 		5
	• Improve quality of work.		
15 a)	State two signs of dry rot attack.	-	
	Acceptable answer(s)	Guidance	Ma x mks
	 Answer to include any of the following to a maximum of two marks surface cracking smell/musty odour fruiting body mycelium strands loss of structural integrity 		2
15 b)	Explain how to eradicate dry rot attack to prevent it from	n reoccurring.	
	Acceptable answer(s)	Guidance	Ma x mks
	 Answer to include any of the following to a maximum of four marks Maximum one for a list response with no Explanation Maximum of four marks for explanation of how to prevent dry rot re-occurring remove all infected timber minimum 1 m beyond any signs of infection treat the surrounding area with preservative remove all plaster within 1 m replace affected components with treated timber treat all cut ends 		4

• ensure sufficient airflow is installed to ensure moisture content does not reach 20%	

16 a)	State the name of the legislation that covers woodworking machinery		
	Acceptable answer(s)	Guidance	Ma x mks
	Answer as stated for one mark		1
	• PUWER		
16 b)	State the name of the guidance document that is specifi	c to woodworking machinery.	·
	Acceptable answer(s)	Guidance	Ma x mks
	Answer as stated for one mark ACOP 		1
16 c)	Identify two areas found in the guidance document identified in 16 b).		
	Acceptable answer(s)	Guidance	Ma x mks
	 Any two from the following for two marks. One mark for each Suitability of work equipment Maintenance Specific risks Information and instructions Training Dangerous parts of machinery Protection against specified hazards Stop controls Stability Markings Warnings 		2

17	A new employee has started work and is required to operate the woodworking machine and complete a risk assessment.			
	Explain safety considerations to be documented in the risk assessment, when working on this machine.			
	Acceptable answer(s)	Guidance	Ma x mks	
	If the candidate list any four of the following with an explanation for each , maximum four marks is awarded.		4	
	 Housekeeping - no trip hazards, tools stored away properly, debris on machine Training – specific to the machine to be used, operate and taking off Guarding – in place, correctly set, without damage Tooling – sharp without damage, correctly fitted, suitable for machine/task Manual handling- team/kinetic lifting, feed tables/rollers Lighting – adequate no shadows Extraction – service/maintained and fit for purpose Braking –within 10 seconds PPE requirements 			
18	While working on site, a carpenter is required to rip timber to width. During the sawing operation the timber binds on the saw blade.			
18 a)	State two possible causes for this problem.			
	Acceptable answer(s)	Guidance	Ma x mks	
	 Any two possible causes for two marks Case hardened timber Riving knife too thin Riving knife incorrectly set Wet timber Fence not accurate set Resinous timber Insufficient kerf to the blade Twisted or warped timber 		2	
18 b)	Describe how the causes stated in 18 a), can be rectified.			
	Acceptable answer(s)	Guidance	Ma x mks	

	 A description outlining how the causes identified in 17 a), can be rectified, for two marks each. No marks is awarded for naming the causes again, but how to rectify the causes. Case hardened timber: use wedge to stop timber nipping blade Riving knife too thin: change riving knife 		4
	 Riving knife too thin: change riving knife Riving knife incorrectly set: reset knife to correct position Wet timber: spray blade with lubricant use wedge Fence not accurate set: re-set fence to ensure no lead in Resinous timber: spray blade with lubricant use wedge Insufficient kerf to the blade: change blade Twisted or warped timber: ensure timber fed in correctly to reduce the possibility of jamming and kickback 		
	Any other reasonable answers.		
19	State where the information can be found on the safe us	e of the narrow bandsaw.	
	Acceptable answer(s)	Guidance	Ma x mks
	Any of the following for four marks. One mark for each		4
	 Any other suitable answer accepted. Manufacturers literature Risk assessments PUWER ACOP HSE website 		
20	 Manufacturers literature Risk assessments PUWER ACOP 		
20	 Manufacturers literature Risk assessments PUWER ACOP HSE website Contact with the blade is a known risk when using circulation of the blade is a known risk when using		Ma x mks
20	 Manufacturers literature Risk assessments PUWER ACOP HSE website Contact with the blade is a known risk when using circula Describe three control measures that will minimise this r Acceptable answer(s) A description covering three control measures that will minimise the risk of contacting the blade. Any three from the list below with a description for three marks	isk.	x
20	 Manufacturers literature Risk assessments PUWER ACOP HSE website Contact with the blade is a known risk when using circula Describe three control measures that will minimise this r Acceptable answer(s) A description covering three control measures that will minimise the risk of contacting the blade. Any three 	isk.	x mks

	 safety aids out feed tables good housekeeping manual handling braking 		
21	A carpenter has been asked to make the gallows bracker entrance canopy roofs. The timber has been delivered roworkshop with a radial arm saw, table saw, surface plane	ough sawn. There is access to a s	mall
	Figure 1 Discuss the requirements of preparing and fabricating the	ne gallows brackets.	
		ne gallows brackets. Guidance	Ma x mks

incomplete detail, mostly in sequence. Some considerations given to safety aids/ extraction/workpiece support. In order to access higher marks response shows good detail linking each part of the machining process	
Band 3 (9 - 12 marks) Response shows detailed evidence of planning cutting lists or setting out components, thorough understanding of machine set up and use. Lists all processes in detail and sequence. Safety aids / extraction/workpiece support extensively used. In order to access higher marks, the response will include strong attention to detail through a cohesive and thorough explanation. Response shows clear understanding of the process of how to setup and use static machines accurately safety and efficiently.	