

## 6720-21-002 Level 2 Constructing and Maintaining the Built Environment

## Version 1.0 - November 2016

xplain h	ow Gantt charts a	nd precedend	ce diagrams	are used as pro	oduction pla	anning tools. (4 mark
new ho	ousing developme	nt is being bu	ıilt.			
		undation that	t could be us	sed when the g	round has a	high bearing (1 mark
o) Exp	olain how a founda	ation for use (	on a building	g with <b>weak su</b>	<b>b-soil</b> is fit f	for purpose. (3 marks
<del>-</del>	a) Sta	state one suitable fo capacity.	state one suitable foundation that capacity.	capacity.	State one suitable foundation that could be used when the g capacity.	State one suitable foundation that could be used when the ground has a capacity.

)	Describe the setting-up procedure for the new building site.	(6 marks
Ex	plain <b>four</b> properties that make timber a useful material for fixtures and fitting	s off-site. (8 mark

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-	Properties need to be serviced and maintained regularly. State <b>three</b> reasons why properties deteriorate.	(3 ma
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a)	Using the image below, identify the defect and explain its cause.	(4 marks)

b)	Explain actions to be taken to remediate this defect.	(4 marks)
6	Calculate the cost of the bricks required to construct a wall if the wall is 3 m high 225 mm thick. Assume the standard number of bricks per $m^2$ and allow 15% extra breakage and cutting. The bricks required cost £420 per 1000 bricks. Assume the rated for VAT purposes.	a for wastage,
7	Using examples, explain the impact to operatives of <b>three</b> hazardous materials of sites.	on construction (6 marks)

8 The table below shows a partially completed risk assessment for a project to underpin a brick wall.

Hazard	Risk level		_	Possible Outcomes	Who could be affected	Control Methods	
	L	M	Н				
Manual Handling		M		Splinters in hands/fingers, bruised or trapped fingers wrong lifting technique causing back injury	Young people Inexperienced, immature and lacking in awareness of relevant risks		
						i)	(2 marks)
Tools			Н		Operatives, in-experienced workers not trained in use of tools and equipment.		
				i) (2 marks)		ii)	(2 marks)
Possible Trench collapse			Н	Injury to oneself or others (grazes, severe cut, severed limb, loss of finger, foreign objects in eye)	Workers in and around the trench, members of the public		
				entrapment		iii)	(2 mark)

Provide responses that would complete the following in the table:

Tools: Possible outcomes of hazard	
i)	
	(2 n
Control methods used to mitigate hazards occurring	
i)	
	(2 n
ii)	
	(2 r
iii)	

		(9 n