Lena Lease's Services business

WTR-TR-601B - Electrical

Competency Assessment

600 - Safety Management



Name...

Company...

Please circle / tick_the most correct answer or print your answer clearly.

Date..

Question 1.

Possible consequences of working on water supply systems, including metal pipes, water meters, valves etc. if you fail to carry out electrical tests before starting work include:

Safety Training

- a. Metal lipes, valves and water meters may be alive at a dangerous voltage. An electric shock or fatality may occur.
- b. You are raing to comply with your Company safety rules and procedures. You may be subject to disciplinary color.
- There may be electric current flowing through metal water pipes. When the pipes are cut or disconnected, an electric chock situation could occur.
- d.) Any or all of the above (حنى, المراق).

Question 2.

How is it possible for metal water pipes which are british in the ground to become live? (i.e. a voltage appears between the pipe and the surrounding earth).

- a. Water flowing through the metal pipes might create a scotic charge.
- b. Faults in the local electrical supply system may cause a denoerous voltage to appear, where metal water pipes are often bonded to the customers MEN (multiple earthed neutral) supply or connected to a supply transformer earthing system.
- c. The earth's magnetic field can create electrical disturbances.
- d. Water supply pipes might pick up signals from other services (telephon a, fit re-optic etc.).

Question 3.

From	the following	list, identify	the minimum	PPE (personal	protective	equipment)	required,	when v	working on
vate	supplies and	carrying ou	t electrical sa	fety checks.					

	Hard hat (🗹)	Safety glasses		
(\$\sqrt{1}\$)	Safety footwear(♥)	High visibility a	approved overalls	
	Ear protection (earmuffs)	(💟	Class 0 Insulated mat	
	Class 0 Insulating gloves and over-gloves			



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Question 4.

RED HAHT + THE NUMBER 1

While carrying out electrical tests, the voltage tester shows a green/yellow LED which indicates:



- Danger us voltage, stop work. a.
- (b) This indication means a value of less than I Volt - it is OK to proceed.
- A flat battery C.
- d. The indicator is not working, sheck the independent earth electrode is connected and positioned correctly.

Question 5.

What device must be connected across the water mater or valve, before disconnecting either of these items? C/None

- a. Nothing is required to be connected.
- b. Volt meter.
- (c.) Bridging cable.
- d. By-pass valve.

Question 6.

STAKE

The correct distance that the independent earth electrode (plate) should be placed away from the water pipe or

- (a) Approximately 1.0 metre.
- b. Approximately 0.5 metre.
- C. Approximately 2.0 metres.
- d. Approximately 0.1 metre.

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Name: Date:							
Item:	Description:	Achieved:	Not Achieved:				
1.	Equipment set up, ready for use	1					
2.	Personal protective equipment used and worn appropriately	4/					
	Insulating gloves — test date check, roll up (air) check and used with overgloves						
	Insu'ating mat — test date check, visual check that the make is not damaged, positioned appropriately	$\sqrt{}$					
3.	Voltage ir dicator connected and independent earth placed appropriately						
4.	Voltage incica or checked – working properly	J					
5.	Voltage measured o water pipes and meter – correct action taken	J					
6.	Voltage indication s to be advised, i.e. Safe or Not Safe						
7.	If safe, bridging caple connected correctly						
	Clip connections rotate a sightly to ensure clean connection						
8.	Re-use voltage indicator – to er sure roltage has not changed	V,	1				
9.	On completing task, bridging caule to be removed						
10.	All equipment cleaned and packed a vav correctly						
11.	All Personal Protective Equipment removed and stored correctly	J,					
12.	Final check – work area clear and reinstated						
lotes:		7					
Employ	ee (Trainee)	ed (raini ig in el	ectrical safety				
	industry and that I am competent to implement electrical safety measu	ires where comp	oleting works.				
Signatur	e:						
ssesso	r						
	(name) confirm that I have assess	sed the employ	oo (trainoo) ir				

Page

Result

Version 01

Competent __

Uncontrolled when printed

/ (tick)

Not Yet Competent ____ (tick)

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