

# Sample Practice Assessment

## Water Process Technician

Please write clearly in block capitals below	
Company name	
Forename (s)	
Last name (s)	
Date of birth	
Apprentice number	
Apprentice signature	
Date of knowledge test	

**Level:** 3  
**Standard:** Water Process  
**Pathway:** Water Network Technician and  
Water Leakage Technician  
**Duration:** 1 hour 30 minutes

### Materials

For this paper you must have:

- Pens
- Scientific calculator (non-programmable)

### Instructions

- Use black ink or black ball-point pen
- Fill in the boxes at the top of this page
- Answer **all** questions
- There are questions, possible answers as well as a column for you to mark your answer

- Mark your answer with an  against the possible answer you think is correct- if you wish to change your answer please put a line through  and re-select with another
- Only one answer per question allowed. Answers which do not follow the rules of selection will be disallowed. This may impact on the grade awarded
- Do all rough work in this answer book

### Below is a Sample:

London is the capital of....

Example Question		
London is the capital of...		
Possible answers		Answer
a)	Wales	<del>X</del>
b)	Scotland	
c)	Northern Ireland	
d)	England	X

### Information

- There are 20 sample questions
- There will be 50 questions in the live knowledge assessment
- All questions should be attempted

### Advice

- You are not permitted to leave the examination room for the first 45 minutes and the last 15 minutes of the examination
- Do not spend too long on one question
- Read all questions thoroughly before starting your examination
- Cheating: you will be asked to leave the examination room and will be classified an automatic fail and referred to your employer

**THIS PAPER MUST NOT BE COPIED OR CIRCULATED WITHOUT  
THE WRITTEN PERMISSION OF THE EUIAS**

You can use this page to carry out any work but must not remove from the practice assessment paper.

**Do not turn over the page or commence the knowledge test until the invigilator instructs you to**

<b>Question 1</b>		
RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences) requires the reporting of dangerous occurrences at work, which <b>one</b> of the following is not reportable as a dangerous occurrence?		
<b>Possible answers</b>		<b>Answer</b>
a)	The collapse or over turning of a crane	
b)	Contact with an overhead power line	
c)	The release or escape of a biological agent likely to cause severe human infection or illness	
d)	Accidental damage to a drain or sewer	

<b>Question 2</b>		
An employee has to carry out a work activity which involves a substance that can be hazardous to health.		
What should they do?		
<b>Possible answers</b>		<b>Answer</b>
a)	Carry on with the work regardless	
b)	Carry out the work, providing they have been suitably trained and have the necessary information from the COSHH assessment	
c)	Carry out the work using his/her own initiative to decide the sensible safety precautions	
d)	Refuse to carry out the work	

<b>Question 3</b>		
Which ONE of the following is the most common cause of workplace injury?		
<b>Possible answers</b>		<b>Answer</b>
a)	Falling from height	
b)	Attacks by animals	
c)	Manual handling injuries	
d)	Electric shocks	

<b>Question 4</b>		
When sounding an asset in a chamber for leakage purposes, where should you place the listening device?		
<b>Possible answers</b>		<b>Answer</b>
a)	Place the listening device on the spindle of the apparatus	
b)	Open the chamber and place the listening device anywhere inside	
c)	Place the listening device on the lid of the chamber	
d)	With your back to the wind on your strongest ear	

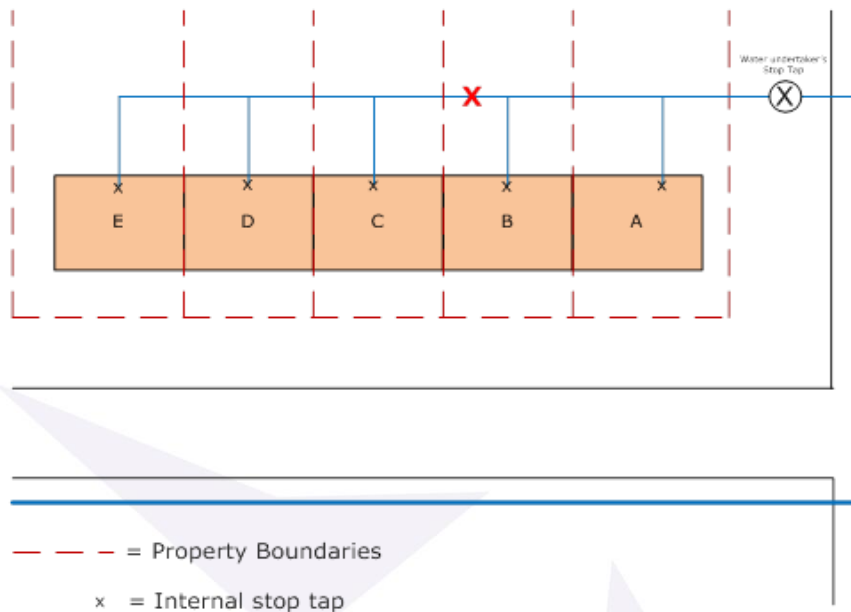
<b>Question 5</b>		
Approximately, how many customers do OFWAT survey quarterly for SIM (Service Incentive Mechanism)?		
<b>Possible answers</b>		<b>Answer</b>
a)	1 - 10	
b)	11 - 100	
c)	101 - 500	
d)	501 - 1000	

<b>Question 6</b>		
What is the definition of a strategic water main?		
<b>Possible answers</b>		<b>Answer</b>
a)	Any main over 8"	
b)	A main that has significant or widespread impact	
c)	A main that serves more than one district metered area	
d)	A main that is more than 5 kilometres long	

### Question 7

Refer to the diagram below.

Which owner(s) have the responsibility for a leak repair on the pipework marked at the position of the red X?



#### Possible answers

#### Answer

a)	B	
b)	C, D and E	
c)	B, C, D and E	
d)	A and B	

Question 8		
Which ONE of the following is responsible for a leak on a private property that is a rental property?		
Possible answers		Answer
a)	Tenant	
b)	Property owner	
c)	Water undertaker	
d)	Insurance company	

Question 9		
What does this graph indicate?		
		
Possible answers		Answer
a)	PRV service	
b)	DMA meter failure	
c)	DMA Meter Scaling Factor Error	
d)	Burst main	

<b>Question 10</b>		
The wrong distance is entered into a correlator.		
How would this affect the accuracy of the correlation?		
<b>Possible answers</b>		<b>Answer</b>
a)	Centre correlation	
b)	Out of bracket	
c)	Incorrect velocity	
d)	Accuracy of the location of the leak	

<b>Question 11</b>		
What is the minimum cover, stated by the National Joint Utilities Group (NJUG) guidelines, for the positioning of water mains in a 2.0m footway on a new development site?		
<b>Possible answers</b>		<b>Answer</b>
a)	500mm	
b)	600mm	
c)	750mm	
d)	900mm	

<b>Question 12</b>		
While setting up a mains disinfection, you are concerned that a source of water hydrant to feed the chlorination unit is contaminated.		
What should you do immediately?		
<b>Possible answers</b>		<b>Answer</b>
a)	Spray with chlorine and carry on without sampling	
b)	Proceed with job and inform your manager on completion	
c)	Spray with chlorine, sample and proceed with chlorination	
d)	Escalate using company procedures	



<b>Question 13</b>		
How many turns would it take to close a standard 100mm sluice valve from fully open?		
<b>Possible answers</b>		<b>Answer</b>
a)	7	
b)	8	
c)	9	
d)	10	

<b>Question 14</b>		
Why would you swap a Pressure Reducing Valves' V-Port for a flat plate?		
<b>Possible answers</b>		<b>Answer</b>
a)	To make it look nicer	
b)	To increase head loss on high flows	
c)	To increase head loss on low flows	
d)	To reduce head loss on high flows	

<b>Question 15</b>		
During a service of a Pressure reducing valve (PRV), what could happen at a Critical Monitoring Point (CMP) if flows changed dramatically?		
<b>Possible answers</b>		<b>Answer</b>
a)	Pressures could increase or decrease	
b)	Pressure would increase	
c)	Pressure would decrease	
d)	Flows would increase	

<b>Question 16</b>		
What must be done in the event of a Planned Interruption, if the supply is NOT restored by the time stated?		
<b>Possible answers</b>		<b>Answer</b>
a)	Not say anything and hope that no one complains	
b)	Make an automatic payment of £20 to domestic customers and £50 to commercial customers	
c)	Wait until the customers complain and pay those who do complain	
d)	Make an automatic payment of £50 to domestic customers and £20 to commercial customers	

<b>Question 17</b>		
Which ONE of the following is the primary regulator that network quality and sufficiency incidents are reported to?		
<b>Possible answers</b>		<b>Answer</b>
a)	DWI	
b)	OFWAT	
c)	CCW	
d)	EA	

<b>Question 18</b>		
How much water could be stored in a water tank 10m high with a diameter of 20m?		
<b>Possible answers</b>		<b>Answer</b>
a)	3,142m <sup>3</sup>	
b)	4,512m <sup>3</sup>	
c)	5,265m <sup>3</sup>	
d)	7,458m <sup>3</sup>	

<b>Question 19</b>		
Approximately how long would it take to turn over twice the volume of a water main which contains 1.25m <sup>3</sup> of water at 4 l/s?		
<b>Possible answers</b>		<b>Answer</b>
a)	10 mins	
b)	12 mins	
c)	14 mins	
d)	16 mins	

<b>Question 20</b>		
On an air gap, what is the minimum unobstructed distance between the lowest level of a water discharge pipe and spill over level of a cistern containing a potentially contaminated fluid?		
<b>Possible answers</b>		<b>Answer</b>
a)	10mm	
b)	20mm	
c)	28mm	
d)	35mm	

**End of Sample Practice Assessment**

## Sample Practice Knowledge Assessment

### Answer scheme

<b>Question</b>	<b>Answer</b>	<b>Question</b>	<b>Answer</b>
<b>1</b>	<b>D</b>	<b>11</b>	<b>C</b>
<b>2</b>	<b>B</b>	<b>12</b>	<b>D</b>
<b>3</b>	<b>C</b>	<b>13</b>	<b>C</b>
<b>4</b>	<b>A</b>	<b>14</b>	<b>D</b>
<b>5</b>	<b>C</b>	<b>15</b>	<b>A</b>
<b>6</b>	<b>B</b>	<b>16</b>	<b>B</b>
<b>7</b>	<b>B</b>	<b>17</b>	<b>A</b>
<b>8</b>	<b>B</b>	<b>18</b>	<b>A</b>
<b>9</b>	<b>A</b>	<b>19</b>	<b>A</b>
<b>10</b>	<b>D</b>	<b>20</b>	<b>B</b>