ENERGY & ENVIRONMENT AWARDS

Skills for a greener world

EEA Level 3 End-point Assessment for Water Industry Network Technician
(Water distribution network technician; Water leakage technician; Wastewater network technician)

# Apprentice Guide

QAN 610/6025/2 ST1292 V1.0

# Apprentice Guide for

## Energy & Environment Awards Level 3 End-point Assessment for Water Industry Network Technician

**QAN 610/6025/2**


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## Updates to this Guide

Since the first publication of Energy & Environment Awards Water Industry Network Technician Apprentice Guide, the following updates have been made.

| Version | Date first published | Section updated | Page(s) |
|---|---|---|---|
| v3.0 | October 2026 | Amendments to Interview based on an EPA portfolio to include reference to EPA Portfolio templates and examination conditions<br><br>Removal of Appendix B: Portfolio Mapping Document | 5, 8, 18 - 23 |
| | | Amended minimum on-programme duration and gateway requirements | 8 |
| | | Amendment to Observation with Questions: S28 can be assessed in a training environment or through questioning | 14 |
| v2.0 | July 2025 | Rebranded<br>Amendments to knowledge statements | All<br>15-16 |
| v1.0 | July 2023 | First published | All |

## At A Glance Component 1: Observation with Questions

| | |
|---|---|
| Date(s): | |
| Time: | |
| Location: | |
| Examination Conditions: | Conducted in your normal workplace |
| Additional Requirements: | |
| Assessed and marked by: | 1 Independent assessor, approved by EEA |

## At A Glance Component 2: Interview based on a portfolio of evidence

| | |
|---|---|
| Date(s): | |
| Time: | |
| Location: | |
| Examination Conditions: | With an EEA Independent assessor, usually on-screen using MS teams. You must be at your employer's premises or a suitable venue for example, a training provider's premises<br><br>You will have access to your EPA portfolio throughout the interview |
| Additional Requirements: | EPA Portfolio to be completed and submitted at Gateway |
| Assessed and marked by: | 1 Independent assessor, approved by EEA |

## At A Glance Component 3: Multiple-choice Test

| | |
|---|---|
| Date(s): | |
| Time: | |
| Location: | |
| Examination Conditions: | Controlled by an invigilator |
| Additional Requirements: | |
| Assessed and marked by: | Energy & Environment Awards |

# Introduction



Energy & Environment Awards has been selected by your employer to carry out end-point assessment (EPA) and it is our job to ensure that you are assessed fairly.

## How This Apprentice Guide Is Organised

- ✓ Section 1:

  What is in the Apprentice Guide?

- ✓ Section 2:

  An Apprentice's End-point Assessment Journey

- ✓ Section 3:

  End-point Assessment Components

## How to Use This Guide

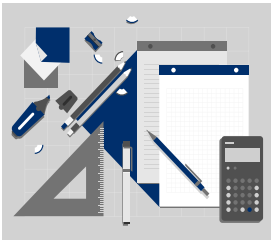


This guide has been split into 3 sections. You can dip into each section that you are working on where you will find useful information, practical advice, tips you need and useful dates to successfully complete your EPA.

Throughout we have used headings and cross referenced to our EPA Water Industry Network Technician (WINT) Specification and/or Supporting Documents which provides details of the EPA components.

# Section 1: The Basics

## What is an Apprenticeship Standard?



An apprenticeship standard is a description of your apprenticeship, and it is based on the Water Industry Network Technician standard, which was written by employers. It contains the Water Industry Network Technician's job profile, and describes the knowledge, skills and behaviours (KSBs):

- Knowledge: (as part of KSBs) – specific information, technical detail, and 'know-how' identified as part of the apprenticeship standard that must be evidenced during your end-point assessment
- Skills: (as part of KSBs) – the practical application of knowledge identified as part of the apprenticeship standard that must be evidenced during end-point assessment
- Behaviours (as part of KSBs) – specific mindsets, attitudes or approaches identified as part of the apprenticeship standard that must be evidenced during end-point assessment

The standard can be accessed via the link below:
https://skillsengland.education.gov.uk/apprenticeship-standards/st1292
Select the occupational standard tab.

## What is an Assessment Plan?

An Assessment Plan is also written by employers and provides details of what is required for you to pass your end-point assessment. It includes details of what you will be assessed on, how each assessment will take place, what methods will be used and who will assess you.

Energy & Environment Awards designed the end-point assessment (EPA) to meet the requirements of the Assessment Plan. The Assessment Plan can be accessed via the link below:
Water Industry Network Technician / Skills England
Select the EPA plan tab.

## What is an end-point assessment (EPA)?

End-point assessment is the assessments you take at the end of your apprenticeship. Your apprenticeship will typically take 30 months. The minimum time you must spend on-programme depends on when you started your apprenticeship. If you started on or after 1 August 2025, the minimum is 9 months. If you started before 1 August 2025, the minimum is 12 months.

After this you have a Gateway meeting with your employer or training provider to confirm you are ready for the end-point assessments. The term end-point means that you will be assessed at the end of your on-programme (training) to confirm you have met the standard. Your EPA period will typically last 4 months.

## What are the Gateway Requirements?

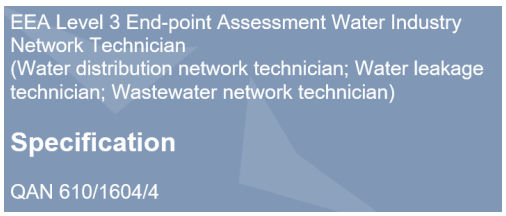
Gateway is a meeting where your employer, training provider and you ensure that you are confident that you can demonstrate all the KSBs defined in the apprenticeship standard and you are ready for EPA. After the meeting, your training provider will confirm the outcomes of the Gateway meeting by sending a signed document to Energy & Environment Awards. The document confirms that you have met the following Gateway requirements:

- achieved English and maths in line with the apprenticeship funding rules
- compiled an EPA portfolio, which will be the focus of the interview based on an EPA portfolio

Your training provider will send copies of these documents to Energy & Environment Awards.

## What is the EPA Specification?

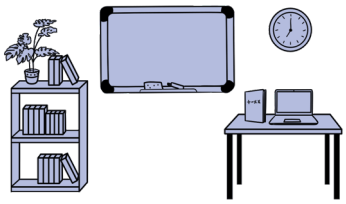
The end-point assessment specification provides details of the assessment methods used in your EPA, which:




- KSBs that are covered by each assessment
- KSBs amplification and guidance

The Specification can be accessed via the link below:
Water Industry Network Technician Level 3 - Energy & Environment Awards

# Section 2: Apprentice EPA Journey



## Let us Begin Your EPA Journey.

### Find a quiet place and read on….

Your EPA journey consists of 3 elements:

- A training programme with on the job, off the job elements, typically 30 months
- Gateway meeting window
- End-point Assessment (EPA) typically 4 months

Your journey begins with the training programme. Your employer and training provider are responsible for this part. This is where you will gain the required Knowledge, Skills and Behaviours (KSBs).

Water Industry Network Technician is a core and options apprenticeship standard. You must be trained and assessed against the core and one of the following specialisms:

- Water distribution network technician
- Water leakage technician
- Wastewater network technician

## How will you be assessed in the end-point assessment?

You will be assessed on the following components, which can be taken in any order:

1. **Observation with questions**
2. **Interview based on your EPA portfolio**
3. **Multiple-choice test**

It is important for you to keep a record of when your 3 components are scheduled. We suggest you use the ‘At a Glance’ tables on page 5.

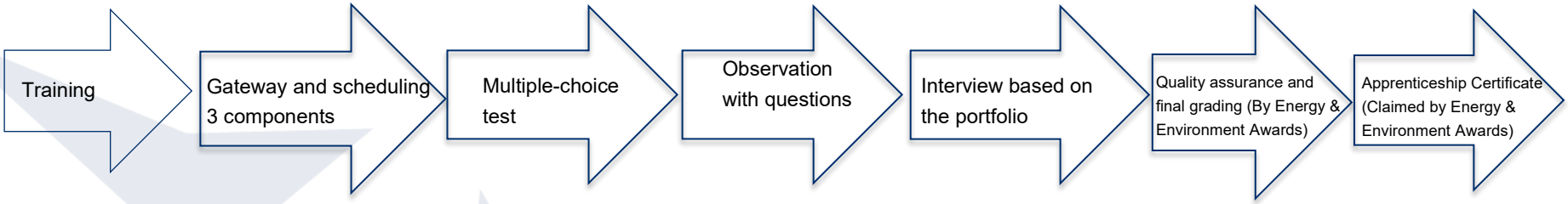
You must pass all 3 components to achieve this qualification. For further guidance refer to Section 3 End-point Assessment Components.

## Reasonable adjustments

A reasonable adjustment is any action that helps to reduce the effect of a disability or difficulty that places you at a substantial disadvantage during assessments. If this applies to you make sure you tell your training provider who can make an application for a reasonable adjustment to Energy & Environment Awards on your behalf.

## Your EPA Journey in a Diagram

The diagram below illustrates the order of your EPA **journey** from the day you register to your final certification:




| | | | | | | |
|---|---|---|---|---|---|---|
| Typically, 30 months | You have:<br>Attended a Gateway meeting with your employer/provider.<br><br>Achieved English and maths qualifications in line with the apprenticeship funding rules<br><br>Compiled an EPA portfolio, which your interview will be | 90 minutes.<br><br>Multiple-choice<br>50 questions.<br><br>Under exam conditions supervised by an invigilator. Face to face.<br><br>Closed book. | 6 hours.<br><br>Under examination conditions.<br>Face to face.<br>Normal work duties, in your workplace or a customer's premises.<br>Independent assessor.<br><br>See below for further details.* | 90 minutes.<br><br>Under examination conditions.<br>Face to face or remote as agreed.<br>Recorded using relevant technology.<br>Independent assessor.<br><br>See below for further details.* | Awarded Final Grading:<br>Distinction, Merit, Pass or Fail. | Your Certificate will be sent to your training provider or employer.<br><br>Contact your training provider or employer if you do not receive your certificate. |

| | | | | | | |
|---|---|---|---|---|---|---|
| | based on. | | | | | |

*For further details refer to Section 3 of this Apprentice Guide or Section 2 of the Specification

# Section 3: End-point Assessment Components

Now let us continue your journey through EPA. There are 3 components that you must pass to be awarded a certificate.

## Component 1: Observation with Questions

### Overview

An observation with questions involves an independent assessor, appointed by Energy & Environment Awards, observing and questioning you undertaking work as part of your normal duties, in your workplace. The task(s) must be capable of being completed by a competent Water Industry Network Technician.

### Step-by-Step Guide

The table below provides a step-by-step guide on how the Observation with Questions will be carried out:

| | |
|---|---|
| Structure of your practical assessment | The total assessment time is 6 hours for completing work as part of your normal duties, in your workplace or a customer's premises.<br>• The observation may be split into discrete sections held on the same working day<br>• Where breaks occur, the clock will be paused. The assessment time is not reduced |
| Where will the assessment take place? | • Your employer's premises or a customer's premises<br>• The questioning must take place in a quiet room<br>**Note: For S28 only, assessment may take place in a suitable training environment or through questioning where the activity cannot be observed during normal workplace activity.** |
| What knowledge, skills and behaviours | **Knowledge, Skills and Behaviours:**<br>**Core** |

| | |
|---|---|
| (KSBs) do I have to demonstrate during the Observation with Questions? | **K4** Operational and quality systems and procedures. Escalation procedures. What they are and how to use them<br><br>**K5** Digital documentation requirements (data logging) for example, maintenance records, and asset check records<br><br>**K8** New Roads and Street Works Act (NRSWA) - signing, lighting, and guarding<br><br>**K12** Asset security requirements and procedures<br><br>**K16** Communication techniques: verbal, written and electronic. Adapting style to audience<br><br>**K17** Customer service techniques. Priority customers<br><br>**K18** Documentation requirements for example maintenance records, asset check records<br><br>**S1** Comply with (water or wastewater) industry regulations and procedures<br><br>**S2** Complete risk assessments: identify and document risks and hazards in the workplace. Apply control measures<br><br>**S3** Comply with health and safety regulations, and safe working and security practices and procedures<br><br>**S4** Set out and remove signing, lighting, and guarding<br><br>**S5** Conduct vehicle checks<br><br>**S9** Trace and locate network services<br><br>**S11** Check technician tools and equipment. Conduct maintenance for example, calibration<br><br>**S15** Interpret digital mapping systems and update<br><br>**S16** Complete work documentation: enter and record data and information using digital technology for example, hand-held devices<br><br>**S17** Read and interpret written information. For example, work instructions, and service level agreements |

| | |
|---|---|
| | **S20** Communicate verbally and in writing. For example, with colleagues, customers, and stakeholders. Use water industry terminology where appropriate<br><br>**S21** Identify and escalate issues<br><br>**S22** Core Provide advice and guidance to customers<br><br>**B1** Prioritise and promote public health, workplace health and safety, and security<br><br>**B3** Apply a professional approach<br><br>**B4** Take ownership for work and responsibility for the quality of work and impact on others<br><br>**Water distribution network technician specialism**<br><br>**K30** Valve and hydrant operations. Interruption to supply (DG3)<br><br>**S28** Identify different valve types. Operate multiple valves, hydrants and washouts including isolation and recharging of mains<br><br>**S29** Follow hygiene practices for example, disinfect equipment<br><br>**S30** Select and use water quality testing equipment to test for water quality for example, chlorine, turbidity, taste, odour, and clarity<br><br>**S35** Inspect and check network assets for example, air valves, PRV, critical valves, fire hydrant. Identify action<br><br>**Water leakage technician specialism**<br><br>**S37** Install pressure gauges<br><br>**S39** Follow hygiene practices for example, disinfect equipment<br><br>**S40** Set up temporary loggers (flow and pressure)<br><br>**S41** Select and use initial leakage detection equipment and methods. For example, acoustic and electronic, data logging, ground microphones, and correlators |

| | |
|---|---|
| | **S42** Use specific leakage detection equipment and methods to identify leakage pin-point for example, network or customer side<br><br>**S44** Read and interpret technical data for example, flows and pressures<br><br>**Wastewater network technician specialism**<br><br>**K54** Fat, oil, grease, and un-flushables procedures<br><br>**K56** Investigatory equipment operations for example, CCTV operations<br><br>**S48** Trace or locate drain or sewer<br><br>**S49** Complete visual inspection to check assets for example, combined sewer overflow, non-return valves, flow control devices, and storage tanks. Identify action<br><br>**S51** Use digital inspection equipment for example, CCTV to check assets. Identify action<br><br>**S53** Select and use blockage removal equipment for example, rods and jetting equipment<br><br>**S54** Select and use equipment to apply first line maintenance techniques for example, replace seals, lubricate, de-silt, and de-scale<br><br>For amplification and guidance refer to the WINT Specification:<br><br>Water Industry Network Technician Level 3 - Energy & Environment Awards |
| What tasks will I have to cover? | The task(s) must allow you to undertake the activities required for a practical observation. For further details refer to 'Knowledge, Skills and Behaviours (KSBs) Coverage' in the specification, refer to link on page 9. |
| What resources can I use? | Equipment and resources needed for the observation will be:<br>• provided by your employer<br>• the tools, equipment and PPE required for the job<br>• in good and safe working condition |

| | |
|---|---|
| | Relevant work instructions/manuals must be available in hard copy or electronically. |
| How many questions will I be asked? | The independent assessor:<br>• will ask questions in relation to underpinning knowledge or where an opportunity to observe you completing an activity has not naturally occurred<br>• may ask questions to follow up to seek clarification from you |
| Who will assess me? | An independent assessor, appointed by Energy & Environment Awards. |
| Provisional Grading | The independent assessor will award a provisional grade. You must pass **ALL** the pass criteria in order to achieve a pass. |
| Overall grading for this component | Fail, Pass, Merit or Distinction. |

### Practice Component 1: Observation with Questions

You should have an opportunity to have a practice practical assessment which mirrors the real assessment. A practice practical would be set up for you using the structure in the table above by your employer or training provider.

## Component 2: Interview based on an EPA Portfolio

### Overview

The interview is based on your EPA portfolio. An EPA Portfolio Template has been designed to assist you during your interview. You should use the EPA Portfolio to collate evidence in preparation for your interview. You will have access to your EPA portfolio throughout the interview. A set of tasks are provided to support the compilation of your EPA Portfolio. Each task should help you to demonstrate how you have met the KSBs in order to carry out your occupational role as a Water Industry Network Technician effectively and safely. The interview allows for testing of responses where there are a range of potential answers.

### Step-by-Step Guide

The table below provides a step-by-step guide on how the interview based on an EPA portfolio will be carried out:

| | |
|---|---|
| Who will assess me? | 1 independent assessor, appointed by Energy & Environment Awards, will conduct the interview. |
| How will the interview be organised? | **Locations:** Your interview will take place at your employer's premises or a suitable venue.<br>**Time:** Your interview will be 1 hour 30 minutes. The independent assessor can increase the time of your interview by up to 10%, to allow you to complete your last answer.<br>**Your interview will be:**<br>• a discussion between you and the independent assessor<br>• face to face or remote, as agreed<br>• assessed and outcomes will be recorded by the assessor on official Energy & Environment Awards interview documents<br>• recorded using the relevant technology such as Microsoft Teams or an audio recording device<br>You will have **access to your EPA portfolio** throughout the interview. |

| | |
|---|---|
| What topics will I have to cover? | The questions you will be asked will cover the following topics:<br><br>**Core**<br>• working in the water industry<br>• the environment and sustainability<br>• collecting evidence<br>• fault-finding and problem solving; making recommendations<br>• team working<br>• information technology and written communications<br><br>The themes will be assessed in the context of your specialism:<br><br>**Water distribution network technician**<br>• detecting leakage<br>• pressure and flow measurement<br>• water sampling<br>• network optimisation<br>• network maintenance<br>• water fittings regulations<br><br>**Water leakage technician**<br>• monitoring leakage performance<br>• contributing to leakage trials<br>• step testing<br>• maintenance of meters or loggers<br><br>**Wastewater network technician**<br>• responding to pollution incidents<br>• reacting to alarms<br>• combined sewer overflow maintenance<br>• specialist techniques |

| | |
|---|---|
| | **For amplification and guidance refer to the WINT Specification:**<br><br>Water Industry Network Technician Level 3 - Energy & Environment Awards |
| How many questions will I be asked? | • A minimum of 10 questions (based on the above topics)<br>• Set questions which may be contextualised to the contents of your portfolio<br>• Follow-up questions in order to seek clarification |
| Provisional Grading | The independent assessor will award a provisional grade. You must pass **ALL** the pass criteria in order to achieve a pass. |
| Overall grading for this component | Fail, Pass or Distinction |

## EPA Portfolio Requirements

The requirements are as follows:

**EPA Portfolio Template**
Throughout the on-programme part of your apprenticeship you must compile an EPA portfolio to support you in your interview. During the interview the independent assessor will ask questions based on the evidence contained in your EPA portfolio.

For further guidance refer to:

- Section below, 'How do I organise my EPA portfolio?'
- WINT Specification Section 5: Guidance on EPA portfolio

### How do I organise my EPA portfolio?

You must complete an EPA Portfolio Template. You should request the EPA Portfolio Template from your provider.

Your EPA portfolio template comprises of five tasks to support the compilation of the portfolio. Each task should help you focus on the specific knowledge, skills and behaviours that will be assessed in the interview.

For each task there is:

- a series of questions to be answered
- a text box following each question for you to provide your response. These boxes will expand to take more text; however, quality of answer is more important than quantity. You will be able to use your answers as prompts in the interview
- tables for you to record evidence that supports the examples provided in response to the questions.

Your EPA portfolio is **not** assessed. It serves the following purposes:

- A carefully prepared EPA portfolio will support you during the interview
- Your organised EPA portfolio will allow you to refer to examples and discuss the evidence with the independent assessor
- It allows the assessor to review it before the interview to help focus and contextualise the questions that you will be asked



## What should I include in my EPA portfolio?

**Quality vs quantity**

You should be supported in selecting evidence for your EPA portfolio by your employer or training provider.

We would advise you to choose the best pieces of evidence to support the answer to each question in the EPA portfolio template. Your completed EPA portfolio should contain the tasks with your responses and at least one piece of evidence backing up each of the questions. A piece of evidence may cover more than one question. No other evidence should be included.

Examples of acceptable evidence:

- workplace documentation/records, for example job task sheets/job card/timesheets, equipment maintenance /service records related to you
- witness statements signed and dated by coaches/trainers
- any employer contributions should focus only on direct observation of evidence (for example witness statements) rather than opinions
- annotated photographs/diagrams

- video clips (maximum total duration 10 minutes); you must be in a view and identifiable

The above is not a definitive list. You can include other relevant evidence sources.



You **must not** include in your portfolio any methods of self-assessment.

Evidence must be:

- produced by you (authentic)
- relevant to the task
- cross referenced and easily accessible in the portfolio
- produced during the time you were carrying out your on-programme training

### What can I do to prepare for the interview?

You should:

- ensure there is quality evidence to cover the KSBs in the EPA portfolio template
- be familiar with the structure of your EPA portfolio
- know the tasks/KSBs covered by the interview
- know where you have referenced your evidence by referring to your EPA Portfolio Evidence Log
- know how you will be graded

### The role of your employer or training provider

Employers or training providers are expected to support you in preparing your portfolio by:

- providing clear instruction and deadlines to allow you to plan and compile your portfolio in preparation for the Gateway meeting
- advising on which pieces of evidence to select
- authenticating evidence as valid
- signing off the EPA portfolio
- submitting your portfolio to EEA as part of Gateway requirements

## Practice Component 2: Interview based on an EPA Portfolio

You should have an opportunity to have a practice interview which mirrors the real assessment. The practice interview would be set up using the structure in the table above by your employer or training provider.

## Component 3: Multiple-choice Test

### Overview

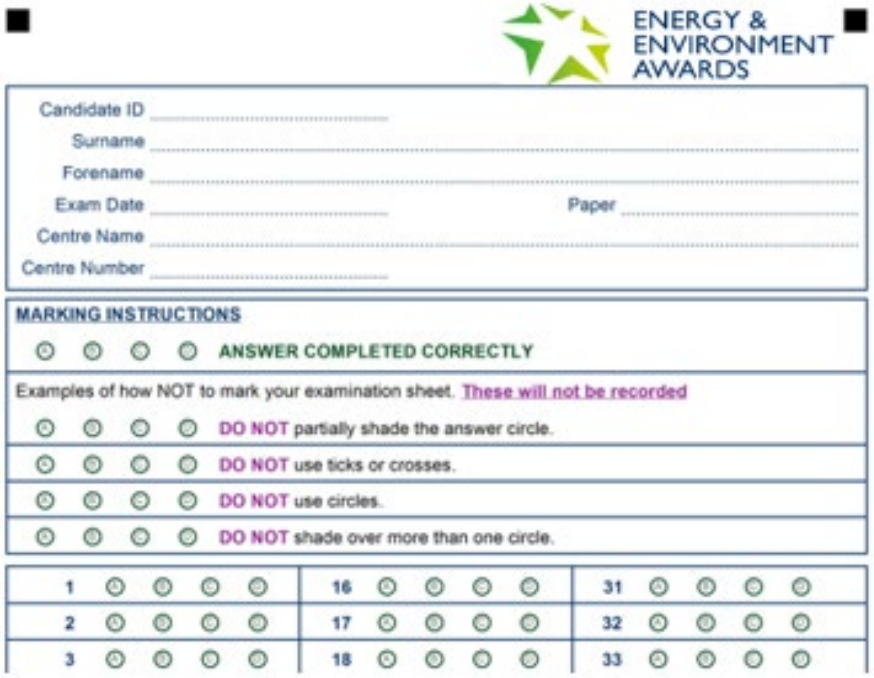
The multiple-choice test is paper based. You will have 90 minutes to complete the test. The test consists of 50 questions.

The multiple-choice questions will have four possible answers of which one will be correct.

### Step-by-Step Guide

The table below provides a step-by-step guide on how the multiple-choice test will be carried out:

<table>
<tr><td>Who will start and finish your multiple-choice test?</td><td>You will sit your multiple-choice test in the presence of an invigilator.</td></tr>
<tr><td>How will the question appear?</td><td>Here is an example of how the question will appear:<br><br>
<table>
<tr><th colspan="2">Question 1</th></tr>
<tr><td colspan="2">In a workplace, who is responsible for maintaining health and safety?</td></tr>
<tr><th colspan="2">Possible answers</th></tr>
<tr><td>a)</td><td>Employers</td></tr>
<tr><td>b)</td><td>Safety managers</td></tr>
<tr><td>c)</td><td>Most senior person on-site</td></tr>
<tr><td>d)</td><td>Everyone</td></tr>
</table>
<br>You must select one answer that you think is correct. You will be provided with an answer sheet where you will be expected to shade in the answer you have selected. Here is an example:</td></tr>
</table>

| | |
|---|---|
| | <br>ENERGY & ENVIRONMENT AWARDS<br>Candidate ID<br>Surname<br>Forename<br>Exam Date<br>Paper<br>Centre Name<br>Centre Number<br>MARKING INSTRUCTIONS<br>ANSWER COMPLETED CORRECTLY<br>Examples of how NOT to mark your examination sheet. These will not be recorded<br>DO NOT partially shade the answer circle.<br>DO NOT use ticks or crosses.<br>DO NOT use circles.<br>DO NOT shade over more than one circle.<br>**Always have a go even if you are not sure that it is the correct answer.** |
| Can I take any resources into the exam room? | The test is closed which means that you cannot refer to reference books or any other materials. You will be provided with stationery on the day.<br>A (scientific) calculator is required for the test. |
| Can I have access to the internet? | No access to the internet is allowed and this means you must not take your SMART watch into the exam room. |
| How will the multiple-choice test be organised for me? | **Locations:** Your multiple-choice test will take place at your employer's or training provider's premises or a suitable venue.<br>• You will take the test in a quiet space and in the presence of an invigilator<br>• Your test will be scheduled by your employer or training provider with Energy & Environment Awards<br>• If you fail the multiple-choice test, you can re-sit or re-take the failed test at your employer's discretion. There are no limits to the number of re-sits or re-takes you can take but it is important to revise and ensure that you are confident with the knowledge you are being tested on |

What criteria will I have to learn?

**AND**

How many questions will be asked on each criteria?

The multiple-choice test questions are knowledge based and sample the 3 core knowledge criteria. Below is a list of the knowledge criteria, assessed in the multiple-choice test along with the range of questions that will be allocated to a multiple-choice test paper:

| Number of Questions | Knowledge |
|---|---|
| **4-6** | **K1 Core**<br>Overview of water and wastewater industries<br>• Regulators and stakeholders (roles and powers):<br>• Drinking Water Inspectorate (DWI)<br>• Water Services Regulation Authority (OFWAT)<br>• Customer Council for Water (CCWater)<br>• Environment Agency (EA)<br>• Health and Safety Executive (HSE)<br>• Department for Environment Food and Rural Affairs (Defra)<br>• Highway Authority<br>• Market Operator Services Limited (MOSL) (wholesale and retail) |
| **2-4** | **K3 Core**<br>Business operation considerations:<br>• How activities may impact customers<br>▪ financial constraints<br>▪ ethical business practices<br>• Customer Experience Measure (CMEX).<br>• Regulatory and legislative performance measures:<br>▪ Guaranteed Standards Scheme (GSS)<br>▪ Director General (DG) - response to written complaints (DG7) |

| | |
|---|---|
| **3-5** | **K6 Core**<br>• Water and wastewater science<br>• Microbiological parameters<br>• Chemical parameters<br>• Aesthetic parameters<br>• Prescribed concentration or value, or legal limits<br>• Industry target standards: how they may vary across companies |
| **2-4** | **K7 Core**<br>• Maths commonly used in the water and wastewater industries<br>• S.I units<br>• Calculations<br>• Standard form<br>• Measurement of distance, area, volume and flow, and unit conversion<br>• Simple transposition of formula<br>• Routine flow and hydraulics theories, principles, and calculations |
| **1-2** | **K9 Core**<br>• Access to Private Land, Streets and Wayleaves |
| **1-2** | **K10 Core**<br>• Duty to maintain apparatus in streets (Highway defect notices – section 81) |
| **13-15** | **K11 Core**<br>• Health and Safety at Work Act – responsibilities<br>• Management of health and safety at work regulations<br>• Control of Substances Hazardous to Health (COSHH)<br>• Risks and hazards |

- Risk assessments and controlling risk
- Control methods for harmful substances and chemicals, effluents, and sludge
- Health and safety signage
- Personal Protective Equipment (PPE)
- Manual handling
- Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR)
- Asbestos awareness
- Lone working
- Confined spaces awareness
- Awareness of excavation support
- Working at height
- Working time directive
- First aid
- Emergency procedures
- Drug and alcohol awareness
- Permits to work
- Storage of tools, equipment and materials
- ATEX compliance (safety requirements of the workplace and equipment used in explosive atmosphere)
- Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)
- Pressure System Safety Regulations (PSSR)
- Provision of Work Equipment Regulations (PUWER)
- Lifting Operations and Lifting Equipment Regulations (LOLER)
- Safe isolation of plant and equipment (lockout, tagout)

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| **2-4** | **K13 Core**<br>• Environment and sustainability<br>• Environmental Protection Act<br>• Types of pollution and control measures<br>• Principles of sustainable development<br>• Waste management and waste streams<br>• Invasive species<br>• Duty of Care in the Environmental aspect |
| **1-2** | **K21 Water distribution network technician**<br>The Water Supply (water fittings) regulations:<br>• waste<br>• misuse<br>• undue consumption<br>• erroneous measurement<br>• contamination |
| **1-3**<br>**1-3** | **K22 Water distribution network technician; and**<br>**K34 Water leakage technician**<br>National water hygiene:<br>• importance of water<br>• water as a carrier of disease<br>• potential contamination and its consequences<br>• preventing contamination |
| **1-3** | **K23 Water distribution network technician**<br>Water science:<br>• Liquids, gases, and solid states commonly found in water industry<br>• Elements, molecules, compounds, and ions<br>• The pH scale, acids, and alkalinity<br>• Physical, chemical, and biological process definition |
| **3-5**<br>**4-6** | **K24 Water distribution network technician; and**<br>**K35 Water leakage technician** |

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| | • Water quality requirements<br>• Drinking water safety plans<br>• Water quality parameters and the role of water quality alarms<br>• Exceedance procedures<br>• Water quality incident investigation requirements<br>• Water quality records<br>• Consequences of failure |
| **1-2** | **K25 Water distribution network technician**<br>• Restoration of supplies<br>• Provision of alternative supplies |
| **2-4**<br>**4-6** | **K26 Water distribution network technician; and**<br>**K39 Water leakage technician**<br>Water network assets and design:<br>• pumps and control valves<br>• air valves<br>• PRVs (Pressure Reducing Valve)<br>• PSVs (Pressure Sustaining Valve)<br>• wash-outs and fire hydrants<br>• pumping stations<br>• treated water storage |
| **1-2**<br>**1-2** | **K29 Water distribution network technician; and**<br>**K40 Water leakage technician**<br>• Materials used in clean water networks (mains and services): regulation 31 |
| **1-2** | **K33 Water distribution network technician**<br>• Sources of leakage<br>• High users<br>• Unaccounted for properties<br>• Change of use of buildings<br>• Theft investigation<br>• Domestic and commercial leakage |

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| | • Determining pipe ownership<br>• Notification process |
| **1-3** | **K42 Water leakage technician**<br>• Pressure management<br>• Low Pressure Register (DG2) |
| **2-4** | **K44 Wastewater network technician**<br>• Wastewater science:<br>• Liquids, gases, and solid states commonly found in water industry<br>• Elements, molecules, compounds, and ions<br>• The pH scale, acids, and alkalinity<br>• Physical, chemical, and biological process definition<br>• Nutrients<br>• Odour |
| **1-3** | **K46 Wastewater network technician**<br>• Sewer performance and flow surveys |
| **1-3** | **K47 Wastewater network technician**<br>Working in confined spaces:<br>• safety equipment<br>• respiratory apparatus<br>• lifting equipment |
| **1-3** | **K48 Wastewater network technician**<br>Wastewater networks assets and design:<br>• new connections<br>• adopted sewers<br>• private sewers<br>• pipework responsibilities and data capture |
| **1-3** | **K49 Wastewater network technician**<br>Wastewater networks construction materials |
| **1-3** | **K50 Wastewater network technician**<br>Wastewater network hydraulics and flow |

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| | **1-3** **K51 Wastewater network technician**<br>Sewer pumping station operations<br><br>**Remember** the questions have been written to reflect the Water Industry Network Technician role as a whole and are not focussed on specific plant, machinery, or employer-specific processes. For amplification and guidance refer to Section 3 of the WINT Specification. |
| What should I do to prepare for the multiple-choice test? | **You should be prepared to**:<br>• revise the criteria listed above<br>• ask your employer or training provider for additional questions that they have prepared to support you<br>• attend the multiple-choice test which will last 90 minutes<br>While on-programme, the employer or training provider must ensure you are:<br>• familiar with all areas assessed by the multiple-choice test as listed above<br>• supported in completing a practice test and provide you with constructive feedback to enable you to identify areas you need to carry out further revision in |

## Practice Component 3: Multiple-Choice test

You should have an opportunity to have a practice multiple-choice test which mirrors the real assessment. The practice multiple-choice test would be set up using the structure in the table above by your employer or training provider. The feedback provided will assist you with preparing for the actual multiple-choice test.

## Overall grading

All assessment components contribute equally to your overall EPA grade.

Grades from individual assessment components will be combined in the following way to determine your overall EPA grade as a whole.

| Observation with questions | Interview based on an EPA portfolio | Multiple-choice test | Overall grading |
|---|---|---|---|
| Fail | Any grade | Any grade | **Fail** |
| Any grade | Fail | Any grade | **Fail** |
| Any grade | Any grade | Fail | **Fail** |
| Pass | Pass | Pass | **Pass** |
| Pass | Pass | Distinction | **Pass** |
| Pass | Distinction | Pass | **Pass** |
| Distinction | Pass | Pass | **Pass** |
| Distinction | Distinction | Pass | **Merit** |
| Distinction | Pass | Distinction | **Merit** |
| Pass | Distinction | Distinction | **Merit** |
| Distinction | Distinction | Distinction | **Distinction** |

Any grade = fail, pass or distinction

## Section 4: Resits and retakes

If you fail one or more EPA components you can re-sit or re-take the failed component at your employer's discretion. Your employer needs to agree that a re-sit or re-take is appropriate. A re-sit does not need further learning, but a re-take does. You should have a supportive action plan to prepare for your re-sit or re-take.

Your employer and Energy & Environment Awards will agree the timescale for your re-sit or re-take. A re-sit is typically taken within two months of the EPA outcome notification. The timescale for a re-take is dependent on how much re-training is required. It is typically taken within four months of the EPA outcome notification, otherwise the entire EPA will need to be re-sat or re-taken in full, unless in the opinion of Energy & Environment Awards exceptional circumstances apply outside the control of you or your employer.

Where any assessment method has to be re-sat or re-taken, you will be awarded a maximum EPA grade of pass, unless Energy & Environment Awards determines there are exceptional circumstances which required a re-sit or re-take.

All assessment methods must be taken within a six-month period, otherwise the entire EPA will need to be re-sat/re-taken.

Re-sits and re-takes will not be offered to you if you wish to move from pass to a higher grade.

Energy & Environment Awards re-sit and re-take policy can be found at: https://energyenvironmentawards.co.uk/policies-and-fees/

## Section 5: Appendix A: Glossary

**Amplification** – provides more detail on how individual knowledge, skills or behaviours statements should be interpreted. Where the KSB statements, themselves are deemed self-explanatory, no amplification is provided. Assessment may include questions on anything identified in the amplification

**Behaviours** –mindsets, attitudes or approaches needed for competence. Whilst these can be innate or instinctive, they can also be learnt. Behaviours tend to be very transferable. They may be more similar across occupations than knowledge and skills. For example, team worker, adaptable and professional

**Elements** – are the knowledge, skills and behaviours and what is needed to competently undertake the duties required for an occupational standard

**Guidance** – is only provided where it is required to support interpretation of the KSB statements

**Gateway** – the stage of the apprenticeship where the apprentice, employer and trainer determine whether the apprentice is ready to undertake the End-Point Assessment

**Independent Assessor** – will holistically assess the knowledge, skills and behaviours (KSBs) that you have learnt throughout the apprenticeship. Their role as an Independent Assessor would involve assessing components 1 (Observation with Questions) and 2 (interview based on your portfolio of evidence)

**Knowledge** – the information, technical detail, and 'know-how' that someone needs to have and understand to successfully carry out the duties. Some knowledge will be occupation-specific, whereas some may be more generic

**Options / Pathways** – a specialist route within an occupational standard that builds on the occupational competence for a new entrant to the occupation

**Skills** – the practical application of knowledge needed to successfully undertake the duties. They are learnt through on and/or off-the-job training or experience

**Standard** – An occupational standard is a description of an occupation. It contains an occupational profile, and describes KSBs needed for someone to be competent in the occupation's duties. The occupational standards are developed by employers for occupations that meet the Institute for Apprenticeships & Technical Education current criteria. For further details refer to: https://skillsengland.education.gov.uk/apprenticeship-standards/st1292

**Topic -** is a collection of elements grouped into a theme e.g., Health and Safety

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