

# WAMITAB Level 4 Medium Risk Operator Competence for Anaerobic Digestion

## *Waste facilities covered:*

- *Anaerobic Digestion Facility including use of the resultant biogas*
- *On farm Anaerobic Digestion facilities including the use of the resultant biogas*

*Qualification Code: 601/8515/6*

*WAMITAB Code: MROC5*



*Version 4, March 2017*

## About WAMITAB and this Qualification Handbook

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### About WAMITAB

WAMITAB is an awarding organisation and charity that develops qualifications for those working in resource management and recycling; cleaning; street cleansing; facilities management; and parking from operative through to management level.

Since it was formed in 1989, WAMITAB has evolved in line with the convergence between the sectors with a clear focus on promoting and supporting environmental sustainability. With over 120 qualification pathways and 70 quality assured centres, WAMITAB offers an unrivalled specialist network to support staff development.

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### Equal Opportunities

WAMITAB supports the principles of equal opportunities and we are committed to meeting these principles in the provision of all our qualifications and assessments. We firmly believe that all learners and stakeholders are therefore entitled to receive equal treatment irrespective of age, sex, race, marital status, religion, disability or sexual orientation.

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### The Purpose of this Qualification Handbook

Welcome to your WAMITAB Qualification Handbook. This will help you to complete your Level 4 Medium Risk Operator Competence for Anaerobic Digestion. It contains:

- The units you need to achieve to complete your award.
- Information about your responsibilities as a candidate.
- Reference information covering each learning outcome and assessment criteria.
- Activities you can use to test your understanding.
- Forms you can use to record and organise your evidence.

## Candidate Information

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**Name**

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**WAMITAB Candidate Number**

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**Registration Date**

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**Enrolment Date**

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**Centre Name**

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**Centre Address**

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**Centre Contact**

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**Assessor Name**

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## Frequently Asked Questions

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### **What is a qualification?**

A qualification is nationally recognised, based on National Occupational Standards and gained in the workplace. Achieving your qualification demonstrates that you can work to the standards expected by employers in your industry.

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### **What is the objective of this qualification**

This qualification is part of the CIWM/WAMITAB Operator Competence Scheme and is designed to provide technically competent people with the knowledge and skills to ensure waste sites comply with either:

- Environmental Permitting Regulations (England and Wales) 2007
- The Waste Management Licensing (Amendment) Regulations (Northern Ireland) 2015

Achievement of this qualification demonstrates competence by the learner to manage permitted waste facilities in England, Wales and Northern Ireland.

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### **Who is it for?**

- Technically competent managers (TCM)
  - Consultants
  - Site managers and supervisors
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### **What are the entry requirements of this qualification?**

This qualification is open entry. This means that learners interested in undertaking this qualification do not require any other qualifications or levels of attainment. However, learners will need to be employed in a suitable position, or have access to the working environment, as the qualification is assessed 'on the job'.

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### **What job role could this qualification lead to or support?**

This qualification is ideal for new or experienced people managing waste and resource management operations that require evidence of their competence, knowledge and skills to ensure waste sites comply with the relevant legislation in England, Wales or Northern Ireland. Once you have achieved your Operator Competence qualification, you will be required to pass a Continuing Competence assessment every two years if you wish to act as the recognised technically competent manager (TCM) on a waste site. All TCM's must be able to demonstrate that they have kept their knowledge and skills up to date.

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## What do I need to achieve?

To achieve this qualification, you will need to complete the six mandatory units.

### Mandatory Unit Group

- Maintain health and safety in the waste and resource management industry (OCS01)
- Manage the environmental impact of work activities (OCS02)
- Manage the movement, sorting and storage of waste (OCS05)
- Manage the reception of non-hazardous waste (OCS12)
- Manage site operations for the anaerobic digestion of non-hazardous waste (OCS32)
- Manage transfer and disposal from anaerobic digestion operations (OCS63)

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## What is a unit?

The units of a qualification describe what you must be able to do and understand to perform work activities competently in your job role.

- Learning outcomes: Describe what tasks you will be able to do as a result of learning.
- Assessment criteria: Describe what activities you will need to do and what you must know to complete each task.
- Evidence requirements: Provide a summary of the evidence you will need to prove you are competent.

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## What is an approved WAMITAB Centre?

You will gain your qualification through an approved WAMITAB Centre. It may be your place of work, a local college or training provider. Assessment of your qualification will be carried out at your place of work and the centre is responsible for the administration. Centre staff will therefore:

- Register you with WAMITAB.
- Provide a candidate registration number.
- Apply for your certificate when you have completed your qualification or units.

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## How long will it take?

There is no time limit set by WAMITAB for you to complete your qualification. However, you may be obliged to achieve your qualification by a specific time outlined in the CIWM/WAMITAB Operator Competence Scheme or by an Environmental Regulator. Your centre may also have some requirements that they will explain to you.

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## Who will help me achieve my qualification?

The following people at the approved WAMITAB centre will help you to achieve your qualification.

### Your Assessor

The assessor is the person you will have the most contact with as you work towards your qualification. They will:

- Help you identify any training you need.
- Help you plan your workload and organise your evidence.
- Observe you carrying out your job in the workplace over a period of time.
- Ask questions about the work you do.
- Make decisions about your evidence.
- Judge when you are competent.
- Provide feedback.

### Internal Quality Assurer

The internal quality assurer maintains the quality of assessment within the centre.

### External Quality Assurer

An external quality assurer is employed by WAMITAB to ensure that your centre meets the required national standards for quality and assessment.

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## What are my responsibilities as a candidate?

As a candidate you will need to:

- Provide your centre with your personal details so they can register you with WAMITAB.
- Comply with health and safety law and regulations.

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## What steps will I need to take to complete my qualification?

1. **Planning:** Your assessor will tell you about the mandatory units of the qualification and will help you to select relevant optional units.
  2. **Evidence:** You will gather evidence for your portfolio (see next question for types of evidence).
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3. **Feedback:** Your assessor will provide regular feedback on your progress and will arrange for additional training if needed. When your assessor confirms you are competent after an assessment, it will be recorded in your handbook.
  4. **Achievement:** Once you have completed all the units and gathered all the evidence you need, your centre will apply for your WAMITAB certificate.
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### **What are the evidence requirements for this qualification?**

The primary sources of evidence for this qualification are:

**Observation (O):** Direct observation or witness testimony where direct observation is not possible. Where this evidence type has been suggested against Assessment Criteria which require the candidate to explain or describe, the assessor must hear or observe the explanation/description (directly or being delivered to others) or see it in writing. The assessor must not infer that the candidate can explain/describe based purely on observation.

**Question and Answer (Q/A):** candidate statements, verbal questioning, professional discussion, written questions, product evidence supported by questioning

**Simulation / Realistic working environment (S/R):** Should be used as a last resort where allowed. Please see the Energy and Utility Skills Assessment Strategy for further information.

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### **Where do I go if I need more information about my qualification and assessments?**

- your assessor
  - your qualification workbook
  - WAMITAB (01604 231950/ [www.wamitab.org.uk/info.admin@wamitab.org.uk](http://www.wamitab.org.uk/info.admin@wamitab.org.uk))
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## Useful Words

### **Approved Centre**

WAMITAB Centres are training organisations that have met our strict quality standards and have been approved to deliver our qualifications to learners. They include private providers, colleges of further education, employers and prisons.

### **Assessment Criteria**

These specify the standard that you are expected to meet to demonstrate that you have achieved the Learning Outcome. Assessment criteria are detailed enough to allow judgments to be made about your competence.

### **Assessor**

A person who works with the Approved Centre to assess your competence against the standards set within the qualification. Assessors are qualified and experienced in the subject of the qualification you are registered for, and have the skills to plan and carry out your assessments. They will make judgments of your competence, based on the evidence you provide, and give feedback.

### **Competence**

Competence, in relation to the qualification, describes your ability to consistently be able to undertake work activities, know and understand work-related tasks as per the requirements set out in the standards.

### **Evidence**

You need to collect evidence to prove that you are competent as required by the standards set in the units of the qualification. There are different types of evidence, ranging from an assessor observing your work, question and answers, assignments and tests. Evidence can also be presented using photographs, audio and video files. Each unit gives guidance as to what is expected and acceptable evidence. Evidence must be authentic and your own work.

### **External Quality Assurer**

This is an expert employed by WAMITAB to monitor, review and advise Approved Centres. The External Quality Assurer regularly visits the Approved Centre to check that all assessments are carried out correctly, to the same standard, and that all paperwork is maintained accurately and consistently. External Quality Assurers are qualified and experienced in the subject of the qualification that you are registered for. They therefore have the skills to check that the Approved Centre is operating properly and has all of the systems in place to deliver the qualification.

### **Internal Quality Assurer**

A person who works with the Approved Centre to make sure that the assessment is carried out correctly, and that all administration of the assessment is properly managed. Internal Quality Assurers are qualified and experienced in the subject of the qualification that you are registered for, and have the skills to verify the work of the assessor for accuracy, quality and consistency.

### **Learner**

A person who is registered to work towards achievement of a qualification – i.e. you!

### **Learning Outcome**

These set out what you will be expected to know, understand or be able to do. Each learning outcome relates to one or more assessment criteria, and together they set a clear assessment standard for each unit.

### **Portfolio**

This is a place where you will collect evidence to demonstrate your competence. A portfolio could be either hard-copy or electronic, but this will need to be agreed with the Approved Centre in advance. The evidence held in your portfolio must be your own work, and be clearly referenced to the units of the qualification.

### **Unit – Mandatory and Optional**

Units form the building blocks of all qualifications that are nationally regulated on the Qualification Credit Framework. Units are small chunks of learning that focus on specific aspects of knowledge, skills and understanding. Mandatory units are those that you must achieve, and Optional units offer a range of subjects that you may choose between.

### **Vocational**

A qualification is vocational when it relates directly to the skills, knowledge and understanding required to undertake a specific or broad job role.

### **WAMITAB**

An Awarding Organisation for a wide range of qualifications in waste management and recycling, cleaning and street cleansing, facilities management and parking. WAMITAB is responsible for ensuring the on going quality of the delivery and assessment of qualifications, and issues certificates to learners upon completion. We have over 20 years of experience developing and quality assuring qualifications, training and course materials.

## Unit Terms

### **Analyse**

Look at something (for example a process) and use given classifications or principles to gain a further understanding.

### **Apply**

Put something into action – a “doing” task which requires “real” evidence from a workplace scenario.

### **Compare**

Look at the characteristics of an item or activity and note the similarities and differences. This is more often used at level 1 and 2.

### **Critically Compare**

Look at the characteristics of an item or situation, note the similarities and differences and their respective positive and negative aspects. In some cases, this can include the use of the comparison in context as the basis for decision making. This is generally used at level 3 and above.

### **Demonstrate**

A doing verb which requires you to actually do what the assessment criteria requires. You will have to provide evidence of which clearly shows you applying your knowledge and skills to meet the requirements of the assessment criteria. The evidence for this can involve getting someone to take a picture of you completing the task or discussing the task with an assessor and recording the discussion using documentation, video, etc. Remember that it is not enough to just write about it unless the task requires this type of written evidence.

### **Describe**

Provide a vivid picture of what it is by using imagery, adjectives and adverbs to make the subject easy to understand. It may also convey an idea or fact.

### **Develop**

Build a process or activity or understanding either from scratch or using an existing product to create something workable.

### **Differentiate/ Distinguish**

Look at the characteristics of an item or situation/ activity and explain the differences.

### **Evaluate/Justify**

You must look at whatever the required content/process is and suggest other relevant, significant or possible outcomes. It is the process of exploring, checking and suggesting a likely outcome with reasons.

### **Explain**

Provide a comprehensible answer that shows an understanding of the content/process mentioned. Your answer should include: what it is, how it works, what it looks like, what it does, how it happens, why it happens and any relevant reasons.

### **Identify**

For most assessment criteria this requires the learner to list and describe what is required or relevant to produce an outcome, or requires the learner to make choices to achieve a particular aspect of their job. At levels 4, 5 and 6 this would require the learner to say what is available, make the choice and then to explain or justify why the choice was made.

### **Implement**

Putting something into practice after the development process has taken place. This ensures that the product/process is actually employed and/or used by self and others during work activities.

### **List**

Produce a number of relevant items which apply to the question. Further description is not required.

### **Manage**

After a development process ensure that the product/process works using relevant management techniques.

### **Recognise**

Be aware of, familiar with and able to identify an activity or product.

# Mandatory Units

### Maintain health and safety in the waste and resource management industry (OCS01)

Credit: 4				Comments
Level: 4		Evidence Type	Portfolio Ref No	
Learning Outcome	Assessment Criteria			
1. Know the main requirements of health and safety legislation in the waste and resource management industry.	1.1. Explain the main legal requirements of health and safety legislation on waste and resource management facilities, in relation to: <ul style="list-style-type: none"> <li>• employers</li> <li>• employees</li> <li>• others</li> </ul>			
	1.2. Describe the different sources of reliable health and safety information.			
	1.3. Identify how to locate current health and safety information.			
	1.4. Describe the main features and legal requirements for: <ul style="list-style-type: none"> <li>• fire risk assessment</li> <li>• accident management plans</li> <li>• CoSHH</li> <li>• PUWER</li> <li>• LOLER</li> </ul>			
2. Understand the hazards, risks, control measures and monitoring associated with a waste and resource management environment.	2.1. Explain the difference between a hazard and a risk.			
	2.2. Explain how to complete a risk assessment.			
	2.3. Explain the difference between a formal and dynamic risk assessment.			
	2.4. Explain the hierarchy of 'control measures'.			
	2.5. Describe the characteristics of hazardous substances and their warning labels.			
	2.6. State the types of personal protective equipment (PPE) required and how they must be used, maintained and stored.			
	2.7. Identify the main causes of accidents and incidents in the			

	workplace.			
	2.8. Explain how to carry out an accident and incident investigation in line with current regulator guidance.			
3. Be able to make sure that hazards and risks are controlled safely and effectively on site.	3.1. Conduct a risk assessment and implement the control measures.			
	3.2. Maintain accurate records of workplace irregularities.			
	3.3. Check other people are aware of hazards/risks and the actions to minimise them.			
	3.4. Identify the relevant person in the workplace to whom hazards should be reported.			
	3.5. Confirm that precautions to control risks have been agreed with the people responsible for health and safety on site.			
	3.6. Review to make sure all recommended action has been taken.			
4. Be able to implement organisational health and safety procedures on site.	4.1. Implement workplace health and safety procedures in relation to: <ul style="list-style-type: none"> <li>• safe use of plant, machinery and equipment</li> <li>• safe use of chemicals</li> <li>• fire</li> <li>• first aid</li> <li>• supervision of visitors and contractors</li> <li>• vehicle movements</li> <li>• any other site specific hazards as detailed on risk assessments</li> </ul>			
	4.2. Ensure procedures are in place to check the health and safety competence of employees.			
	4.3. Conduct monitoring of the workplace at agreed intervals and in accordance with workplace instructions.			
	4.4. Respond to any breaches of health and safety.			
	4.5. Identify training needs and put plans in place to address them.			
5. Be able to monitor and review safety on site.	5.1 Review performance of health and safety on site.			
	5.2 Request feedback on health and safety performance from relevant people.			
	5.3 Make recommendations for any changes to organisational procedures to maintain health and safety on site.			

### Manage the environmental impact of work activities (OCS02)

Credit: 3				Comments
Level: 4		Evidence Type	Portfolio Ref No	
Learning Outcome	Assessment Criteria			
1. Understand the legal and organisational requirements for managing the environmental impact of work activities.	1.1. Describe the legislative requirements, codes of practice and guidance applicable to the transfer and transport of waste from the site.			
	1.2. Explain the organisational procedures for managing the environmental impact of work activities.			
2. Understand how to assess the environmental impact of work activities and how this can be minimised.	2.1. Explain how to assess the impact of work activities and resources in the environment, including risk analysis.			
	2.2. Explain what specialist advice is available to manage the environmental impact of work activities.			
	2.3. Explain how to minimise the environmental impact of work activities.			
	2.4. Explain how to monitor the environmental impact of work activities.			
3. Understand the legal and organisational requirements for managing the risk of fires on site.	3.1. Explain the legal requirements and current guidance for managing the risk of fires on site.			
	3.2. Explain the organisational procedures for managing the risk of fires on site.			
4. Be able to assess and report on the environmental	4.1. Assess the environmental impact on your site of: <ul style="list-style-type: none"> <li>• work activities</li> <li>• resource use</li> </ul>			



impact of work activities in own area of responsibility.	4.2. Review existing control measures for minimising site environmental impacts of: <ul style="list-style-type: none"> <li>• work activities</li> <li>• resource use</li> </ul>			
	4.3. Analyse the effectiveness of the existing control measures and make recommendations for any improvements including those for: <ul style="list-style-type: none"> <li>• work activities</li> <li>• resource use</li> </ul>			
	4.4. Produce a report on the environmental impact of work activities and resource use, with recommendations for improvement.			
5. Be able to organise work activities and resource use to minimise environmental impact.	5.1. Organise resources in own area of responsibility to reduce environmental impact.			
	5.2. Organise work activities in own area of responsibility to reduce environmental impact.			
6. Be able to promote on-going improvement in environmental performance.	6.1. Monitor the environmental impact of work activities.			
	6.2. Establish ways to identify and report opportunities for improving environmental performance.			
	6.3. Communicate on-going environmental performance.			
7. Be able to implement fire prevention controls and measures on site.	7.1. Identify the types and locations of combustible and flammable materials on site.			
	7.2. Identify the types and locations of potential ignition sources on site.			
	7.3. Identify existing control measures aimed at reducing the risk of fire and the impact should fire occur.			
	7.4. Review the effectiveness of the existing control measures and make recommendations for any improvements.			
	7.5. Ensure control measures are implemented on site to reduce the risk of fire.			

### Manage the movement, sorting and storage of waste (OCS05)

Credit: 5				Comments
Level: 4		Evidence Type	Portfolio Ref No	
Learning Outcome	Assessment Criteria			
1. Understand the specific regulation, procedures and requirements for the movement, sorting and storage of waste.	1.1. Describe the legislative requirements, codes of practice and guidance applicable to the movement, sorting and storage of waste from the site.			
	1.2. Describe the legislative requirements and organisational procedures for dealing with unauthorised wastes.			
	1.3. Describe the records required by legislation for the movement, sorting and storage of waste on site.			
	1.4. Describe the planning permission, permit and environmental management system (EMS) for the site.			
	1.5. Describe the types, functions and limitations of waste handling equipment used on site.			
	1.6. Describe the procedures and handling requirements for the types of waste received on site.			
	1.7. Describe the procedures for managing work activities during the movement, sorting and storage of waste on site.			
	1.8. Describe the procedures for managing internal site traffic during the movement, sorting and storage of waste on site.			
	1.9. Describe the procedures for preventing fires during the movement, sorting and storage of waste on site.			
2. Understand the health, safety and environmental implications of movement, segregation and	2.1. Describe the organisational environmental policy and procedures applicable to the site.			
	2.2. Identify hazards associated with the movement, sorting and storage of waste on site in relation to: <ul style="list-style-type: none"> <li>• health and safety</li> <li>• environment</li> </ul>			

storage of waste.	2.3. Describe the process of risk analysis to minimise hazards to personnel and the environment.			
	2.4. Describe the lifting and handling techniques suitable for moving, sorting and storing wastes on site.			
	2.5. Describe the organisational procedures for dealing with spillages and emissions on site.			
	2.6. Describe the organisational procedures for dealing with fires on site.			
	2.7. State the types of personal protective equipment (PPE) required and how they must be used, maintained and stored.			
	2.8. Describe the importance of personnel compliance with health and safety requirements for: <ul style="list-style-type: none"> <li>• use of personal protective equipment (PPE)</li> <li>• use of vehicles, plant and machinery</li> <li>• use of waste handling equipment</li> </ul>			
3. Be able to implement systems and procedures to manage the movement, sorting and storage of waste.	3.1 Implement systems and procedures for the movement, sorting and storage of waste in accordance with legislative requirements and organisational procedures.			
	3.2 Implement systems and procedures that comply with legislative requirements to deal with wastes that need specific handling.			
	3.3 Comply with legislative requirements and organisational procedures for recording and reporting risks to health, safety or the environment.			
	3.4 Implement recording and information systems for the sorting and storage of waste in accordance with legislative requirements and organisational procedures.			
	3.5 Ensure that personnel understand the procedures relating to the movement, sorting and storage of wastes and comply with them.			
	3.6 Ensure that personnel have received recognised training before any machinery, plant or equipment is used.			
4 Be able to manage vehicles, plant and	4.1 Identify hazards and minimise risks to health, safety and the environment that arise from the use of vehicles and plant on the			

crews on sites which handle waste.	site.			
	4.2 Establish systems to control the movement of vehicles and plant on site to comply with health, safety and organisational requirements.			
	4.3 Implement and enforce organisational procedure to generate site rules for vehicles, plant and crews on the site that comply with legislative requirements and organisational procedures.			
5 Be able to use, record and communicate information.	5.1 Give instructions for moving, sorting and storage of waste in accordance with organisational procedures.			
	5.2 Maintain records and provide information for the moving, sorting and storage of waste.			
	5.3 Inform site personnel of all procedures for onsite activities to maintain the quality of the organisation's work.			
	5.4 Monitor and review the work programme and instructions to ensure accuracy.			
	5.5 Communicate work instructions verbally and in writing.			
	5.6 Check that employees have understood work instructions.			
	5.7 Advise relevant people about accidents, incidents, interruptions to work, near hits and/or any situations that require their attention.			
	5.8 Maintain a record of training for all staff employed on the site.			
6 Be able to resolve problems which arise during or resulting from the movement, sorting and storage of waste.	6.1 Recommend steps to rectify any staff shortages, equipment deficiencies or external factors that prevent the movement, sorting or storage of wastes.			
	6.2 Seek specialist advice to resolve situations which arise outside own area of responsibility.			
	6.3 Implement procedures for dealing with spillages on site and ensure staff compliance.			

### Manage the reception of non-hazardous waste (OCS12)

Credit: 6				Comments
Level: 3		Evidence Type	Portfolio Ref No	
Learning Outcome	Assessment Criteria			
1. Understand the regulations, procedures and requirements for managing waste operations.	1.1. Describe the legislative requirements, codes of practice and guidance applicable to the reception of non-hazardous waste on the site.			
	1.2. Describe the regulatory requirements and organisational procedures for dealing with unauthorised wastes.			
	1.3. Describe the organisational procedures for managing work activities on the site.			
	1.4. Describe the planning permission, permit requirements and environmental management system (EMS) for the site.			
	1.5. Describe the waste inspection, identification procedures and handling requirements for the types of non-hazardous waste received on site.			
	1.6. Describe the uses, purposes and processing requirements for documents relating to the reception and validation of non-hazardous waste received on the site.			
	1.7. Describe the records required by legislation and by organisational procedures relating to the reception, inspection and validation of non-hazardous wastes.			
	1.8. Describe the organisational procedures for the delivery of non-hazardous waste to the site.			
2. Understand the health, safety and environmental impacts associated with the reception	2.1. Describe the organisational environmental policy and procedures applicable to the site.			
	2.2. Identify hazards associated with the reception of non-hazardous waste on site in relation to: <ul style="list-style-type: none"> <li>health and safety</li> </ul>			

of non-hazardous waste.	<ul style="list-style-type: none"> <li>• environment</li> </ul>			
	2.3. Describe risk analysis to minimise hazards to personnel and the environment for the whole workplace.			
	2.4. Identify risks to the environment and human health resulting from the reception, inspection and validation of non-hazardous wastes.			
	2.5. State the types of personal protective equipment (PPE) required and how they must be used, maintained and stored.			
3. Be able to implement systems and procedures to manage the reception of non-hazardous waste.	3.1. Implement systems and procedures for the reception and validation of non-hazardous wastes in accordance with legislative and organisational requirements.			
	3.2. Implement systems and procedures that comply with legislative requirements to deal with non-hazardous wastes that need specific handling.			
	3.3. Implement systems and procedures that comply with legislative requirements for the rejection of unauthorised non-hazardous wastes.			
	3.4. Establish systems to control the movement of vehicles entering, moving around and leaving the site.			
	3.5. Ensure personnel implement procedures and comply with legislative requirements for non-hazardous waste reception.			
	3.6. Ensure all procedures for the reception of non-hazardous wastes comply with legislative requirements to maintain the quality of the organisation's work.			
	3.7. Implement security arrangements to prevent the unauthorised delivery and removal of non-hazardous wastes on the site.			
4. Be able to use and communicate information.	4.1. Give instructions to customers and site personnel about the procedures for receiving and validating non-hazardous waste.			
	4.2. Maintain records and information systems relating to the reception, inspection and validation of non-hazardous wastes that meet legislative requirements.			
	4.3. Check the work programme and instructions are accurate and complete.			

	4.4. Communicate work instructions verbally and in writing.			
	4.5. Check that employees have understood work instructions.			
	4.6. Advise colleagues and managers about accidents, incidents, interruptions to work or any situations that require attention.			
	4.7. Maintain a record of training for all staff employed on transfer, recovery, transport and disposal operations on site.			
	4.8. Notify customers and regulatory authorities of any breaches of the legislative requirements caused by the reception of unacceptable non-hazardous waste.			
5. Be able to resolve problems which arise from managing the reception of non-hazardous waste.	5.1. Take steps to rectify any staff shortages, equipment deficiencies or external factors that prevent the reception of non-hazardous wastes.			
	5.2. Seek expert advice to resolve situations which are outside own area of responsibility.			
	5.3. Advise relevant people of any breaches of security or other situations which require their attention.			

### Manage site operations for the anaerobic digestion of non-hazardous waste (OCS32)

Credit: 6				Comments
Level: 4		Evidence Type	Portfolio Ref No	
Learning Outcome	Assessment Criteria			
1. Understand the legislative and organisational requirements for site management of non-hazardous waste anaerobic digestion operations.	1.1. Describe the legislative requirements, regulations, codes of practice and guidance applicable to the anaerobic digestion of non-hazardous waste from the site.			
	1.2. Describe the planning permission, permit requirements and environmental management system (EMS) for the site.			
	1.3. Describe waste inspection and identification procedures.			
	1.4. Describe lifting and handling requirements and techniques for the types of waste received on the site.			
	1.5. Describe the storage requirements for the non-hazardous waste types handled on the site, and outputs stored on site.			
	1.6. Describe the procedures and documentation required for anaerobic digestion of non-hazardous waste to specific standards.			
	1.7. Describe the Control of Substances Hazardous to Health (COSHH) and risk assessment data for substances received, handled and used on site.			
	1.8. Describe the procedures for dealing with non-hazardous waste, out of specification waste and any other residues from the process.			
	1.9. Explain how to interpret process documentation and verify that the information is accurate.			
2. Understand how to maintain adequate resources for site operations.	2.1. Describe the organisational procedures for non-hazardous waste anaerobic digestion operations and the supply and use of resources required.			
	2.2. Describe the technical skills needed for non-hazardous waste			



	anaerobic digestion operations on site.			
	2.3. Explain how to ensure that relevant staff have the required skills and training.			
	2.4. Describe how to communicate work instructions to personnel verbally and in writing.			
	2.5. Explain why it is important to ensure that staff understand instructions, and how to ensure this is achieved.			
	2.6. State the types of personal protective equipment (PPE) required and how they must be used, maintained and stored.			
	2.7. Describe the organisational requirements and operational procedures for all machinery, plant and equipment used on the site.			
	2.8. Identify the types, functions and limitations of handling equipment available on the site.			
3. Understand how to minimise risk to health, safety and the environment.	3.1. Explain the difference between a formal and dynamic risk assessment.			
	3.2. Identify the hazards associated with the anaerobic digestion of non-hazardous waste on site in relation to: <ul style="list-style-type: none"> <li>• health and safety</li> <li>• environment</li> </ul>			
	3.3. Describe the organisations environmental policy and procedures.			
	3.4. Explain how risk assessment is used to minimise hazards to personnel and the environment.			
	3.5. Describe the procedures for dealing with spillages and emissions.			
	3.6. Describe the procedures for dealing with: <ul style="list-style-type: none"> <li>• DSEAR gas leaks</li> <li>• increased gas levels in confined spaces</li> <li>• other incidents</li> </ul>			
4. Be able to manage anaerobic digestion treatment operations for non-	4.1. Implement systems and procedures for non-hazardous waste anaerobic digestion processes in accordance with legislative and organisational requirements.			
	4.2. Make arrangements for an adequate supply of resources to carry			

hazardous waste.	out site operations, including: <ul style="list-style-type: none"> <li>• materials</li> <li>• equipment</li> <li>• personnel</li> <li>• information</li> </ul>			
	4.3. Comply with legal and organisational requirements for reporting risks to health, safety and the environment.			
	4.4. Implement and maintain recording and information systems specifically relating to the non-hazardous waste anaerobic digestion processes in accordance with legislative and organisational requirements.			
	4.5. Make arrangements for the safe storage of outputs and residues from non-hazardous waste anaerobic digestion processes.			
	4.6. Maintain the quality of the organisations work by ensuring that all procedures and processes are adhered to.			
5. Be able to control work activities on waste sites.	5.1. Establish and oversee programmes of work which meet the legislative and organisational requirements required for non-hazardous waste anaerobic digestion operations.			
	5.2. Implement site operating procedures that comply with health and safety and environmental protection requirements.			
	5.3. Monitor and maintain systems to ensure that there are sufficient personnel with required skills, and implement training programmes where required.			
	5.4. Ensure that staff understand procedures and implement them in compliance with legislative and organisational requirements.			
	5.5. Maintain safe systems of work and put in place controls to eliminate or reduce risk from hazards.			
	5.6. Identify potential hazards and take steps to reduce risks to personnel and the environment, relating to wastes which: <ul style="list-style-type: none"> <li>• are difficult to handle</li> <li>• may have unacceptable or unauthorised components</li> <li>• are likely to present unexpected health problems</li> </ul>			

	5.7. Monitor staff activity on non-hazardous waste anaerobic digestion sites to ensure they enhance or maintain the quality of the organisations work.			
	5.8. Keep accurate records of non-hazardous waste treated and of the control parameters for the non-hazardous anaerobic digestion process.			
6. Be able to resolve problems which may arise from non-hazardous waste anaerobic digestion operations.	6.1 Recommend steps to rectify any staff shortages, equipment deficiencies or external causes that prevent the anaerobic digestion of non-hazardous waste.			
	6.2 Seek advice to resolve situations which are outside of the responsibility of the job role.			
	6.3 Implement procedures for dealing with spillages on site and ensure that staff understand and follow prescribed procedures and incidents.			
	6.4 Make arrangements for treatment or disposal for any batches of material that fail to meet the quality standards required.			

### Manage transfer and disposal from anaerobic digestion operations (OCS63)

Credit: 5				Comments
Level: 4		Evidence Type	Portfolio Ref No	
Learning Outcome	Assessment Criteria			
1. Understand the specific regulatory procedures and requirements for the transfer of outputs and disposal of residues from biological anaerobic digestion treatment operations.	1.1. Describe the biological treatment standards and regulatory requirements to be met for recognition of product status for outputs.			
	1.2. Describe the legislative requirements, regulations, codes of practice and guidance applicable to the transfer and transport of wastes from the site.			
	1.3. Describe the planning permission, permit requirements and environmental management system (EMS) for the site.			
	1.4. Describe the legislative requirements for the safe operation of machinery, plant and equipment.			
	1.5. Describe the quality inspection, identification procedures and the handling requirements for the outputs from the site.			
2. Understand the organisational procedures for the transfer of outputs and disposal of residues from biological anaerobic digestion treatment operations.	2.1. Describe the organisational procedures for the management of personnel and work activities.			
	2.2. Describe the on-site procedures for the management of storage of the outputs and residues.			
	2.3. Describe the organisational procedures for transport operations and the supply and use of the transport resources required.			
	2.4. Describe the procedures for dealing with residues, out of specification materials and any other rejects from the process.			
	2.5. Identify the storage and handling implications for the output materials produced on-site.			
	2.6. Identify the types, functions and limitations of waste handling equipment available for use on the site.			
	2.7. Describe the lifting and handling techniques that are suitable for			

	the outputs and residues that are being transported from the site.			
3. Know how to identify risks and manage work-related hazards.	3.1. Identify hazards associated with anaerobic digestion on site in relation to both: <ul style="list-style-type: none"> <li>• health and safety</li> <li>• environment</li> </ul>			
	3.2. Describe the control measures to reduce or eliminate risks to safety, health and the environment associated with anaerobic digestion on site.			
	3.3. Describe how to use risk assessment and analysis to minimise hazards to personnel and the environment in the workplace.			
	3.4. Describe the organisational procedures for dealing with spillages and emissions.			
	3.5. State the types of personal protective equipment (PPE) required and how they must be used, maintained and stored.			
	3.6. Describe legal and organisational requirements for recording and reporting risks to health, safety and the environment.			
4. Be able to implement management systems for anaerobic digestion operations.	4.1. Implement systems and procedures for the transfer and transport of outputs from anaerobic digestion operations.			
	4.2. Implement systems and procedures for the disposal of residues from anaerobic digestion operations.			
	4.3. Make arrangements for the supply of materials, equipment and information needed to carry out loading and transport operations from the site.			
	4.4. Make arrangements for the safe loading of outputs and residues from anaerobic digestion operations.			
	4.5. Apply management systems to ensure that all procedures and waste transfer and disposal processes are adhered to.			
5. Be able to manage information for the transfer of outputs and disposal of	5.1. Ensure that transport documentation for all materials leaving the site is completed in order to comply with legislative and organisational requirements.			
	5.2. Interpret process documentation and verify that the information			

residues from anaerobic digestion processes.	is accurate and relates to the recovered wastes and residues.			
	5.3. Maintain records of all outputs and residues leaving the site in accordance with legislative and organisational requirements.			
	5.4. Implement and maintain a system to record testing and analysis data on outputs.			
	5.5. Prepare documentation to inform users of the outputs about the characteristics of the materials.			
6. Be able to resolve problems which arise from the transfer of outputs and disposal of residues from anaerobic digestion processes.	6.1. Take action to rectify any staff or transport shortages, equipment deficiencies or external causes that affect anaerobic digestion processes.			
	6.2. Implement and communicate procedures for dealing with spillages on site.			
	6.3. Make arrangements for alternative transport and recipients for outputs and residues when existing arrangements are not available.			
	6.4. Make arrangements for reprocessing or disposing of outputs that have failed to meet the prescribed standards for the site.			
	6.5. Seek specialist advice to resolve situations which are outside the responsibility of the job role.			

## Glossary

**Dynamic risk assessment** refers to the continuous process of identifying hazards and assessing risk as they arise during work activities so operators can take action to eliminate or reduce risk, as well as monitor and review existing control measures.

**Hazard** refers to a potential source of harm or negative health effect.

**Hazardous waste** refers to waste that is dangerous or potentially harmful to our health or the environment. Hazardous wastes can be liquids, solids, gases, or sludges.

**Health and safety** refers to the regulations and procedures intended to prevent accident or injury.

**Inert waste** refers to waste that does not experience any significant physical, chemical or biological transformations e.g. it will not dissolve, burn, react, biodegrade or adversely affect other matter.

**Operator** refers to the person who has control over the operation of a regulated facility

**Organisational procedures** refer to a series of principles, rules and guidelines designed to ensure organisations reach their long-term goals.

**Personal protective equipment (PPE)** refers to protective clothing, helmets, goggles or other equipment designed to protect your body from harm.

**Risk** refers to a situation that exposes someone or something of value to danger.

**Risk assessment** refers to a systematic process you are required to carry out by law to evaluate potential risks that may be involved in an activity.

**Training** refers to an organised activity designed to teach a person a particular skill or behaviour to improve performance.

**Waste** refers to a material, substance or by-product eliminated or discarded as no longer useful or required after the completion of a process.

**Waste hierarchy** prioritises ways of dealing with waste based on how good they are for the environment.

**Working at height** refers to any place where a person could fall a distance liable to cause personal injury.

## Qualification Structure

To achieve this qualification, learners will need to complete six mandatory units:

### Mandatory Units

Ofqual Code	Title	Credits	Level	Code
A/508/0756	Maintain health and safety in the waste and resource management industry	4	4	OCS01
F/508/0757	Manage the environmental impact of work activities	3	4	OCS02
F/508/0760	Manage the movement, sorting and storage of waste	5	4	OCS05
J/508/0887	Manage the reception of non-hazardous waste	6	3	OCS12
A/508/1003	Manage site operations for the anaerobic digestion of non-hazardous waste	6	4	OCS32
T/508/0979	Manage transfer and disposal from anaerobic digestion operations	5	4	OCS63







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