

WAMITAB Level 4 Certificate in Waste and Resource Management

Guided Learning Hours: 30

Total Qualification time: 216

Total Credits: 22

Qualification Code: VRQ4

WAMITAB Code: 603/3581/6

VRQ406 (Physical Treatment)

VRQ407 (Biological Treatment)

VRQ408 (Thermal Processing)

VRQ409 (Land Remediation)

VRQ410 (Inert Landfill)

VRQ411 (Mechanical Biological Treatment)

VRQ412 (End of Life Vehicle Facilities)

VRQ413 (Metal Recycling Facilities)



Part of CIWM/WAMITAB Operator Competence Scheme

Version 4, June 2019

About WAMITAB and this Qualification Handbook

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.

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.

The Purpose of this Qualification Handbook

Welcome to your WAMITAB Qualification Handbook. This will help you to complete your Level 4 Certificate in Waste and Resource Management.

- The units you need to achieve to complete your qualification.
- 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

Name

WAMITAB Candidate Number

Registration Date

Enrolment Date

Centre Name

Centre Address

Centre Contact

Tutor Name

Contents

About WAMITAB and this Qualification Handbook.....	1
Candidate Information.....	3
Frequently Asked Questions.....	2
Useful Words.....	5
Unit Terms.....	7
Mandatory Units.....	9
VRQ401: Health and safety in the waste and resource management industry	10
VRQ402: Environmental protection in the waste and resource management industry	15
VRQ403: Principles of sustainable waste and resource management	19
VRQ404: Legislation for the operation of a waste management facility.....	21
VRQ405: Stakeholder communication and other non-legislative factors affecting the waste and resource management industry.....	28
Optional Units.....	33
VRQ406: Principles and practices of managing a physical treatment processing facility	34
VRQ407: Principles and practices of managing a biological treatment processing facility.....	37
VRQ408: Principles and practices of managing a thermal treatment processing facility.....	41
VRQ409: Principles and practices of managing land remediation activities	44
VRQ410: Principles and practices of managing an inert landfill.....	48
VRQ411: Principles and practices of managing a mechanical biological treatment facility.....	52
VRQ412: Principles and practices of managing an end of life vehicle facility	55
VRQ413: Principles and practices of managing a metals recycling facility.....	59

Frequently Asked Questions

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.

What is the objective of this qualification?

This qualification is delivered using the classroom based 'taught and tested' route, making it a great qualification for those who want to formalise their knowledge and skills in the waste industry without having to complete an observation onsite. Learners can also choose from a range of optional units tailored to the specific activity on their site.

Who is it for?

- New entrants to the industry that want to progress onto a degree
 - Graduates preparing to work in the industry
 - Operatives, team leaders, supervisors or managers
 - Experienced workers seeking a formal qualification
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What are the entry requirements of this qualification?

This qualification is open entry. This means that learners interested in undertaking the WAMITAB Level 4 Certificate in Waste and Resource Management do not require any other qualifications or levels of attainment. This qualification is delivered using the classroom based 'taught and tested' route so you do not need to be employed in a suitable position to undertake this qualification.

What job role could this qualification lead to or support?

This qualification is ideal for new entrants, graduates or experienced workers that want to develop their career within the waste and resource management industry through further learning. It is a flexible qualification that can be tailored to meet the requirements of specific job roles (such as site manager, supervisor or team leader) in the sector or a particular organisation.

This qualification will support the sector to overcome significant skills gaps as 65% of all new business start-ups in the energy production and utilities sector in 2009 were created in the waste management industry, giving an indication of the rapid growth this industry has experienced and the potential demand for this qualification in the future.

What do I need to achieve?

To achieve this qualification, you must complete a minimum of 22 credits to achieve the qualification. This should be made up of 20 credits from the Mandatory Group and 2 credits from the Optional Group:

Mandatory Group

- VRQ401 – Health and safety in the waste and resource management industry.
- VRQ402 – Environmental protection in the waste and resource management industry.
- VRQ403 – Principles of sustainable waste and resource management.
- VRQ404 – Legislation for the operation of a waste management facility.
- VRQ405 – Stakeholder communication and other non-legislative factors affecting the waste and resource management industry.

Optional Group

- VRQ406 – Principles and practices of managing a physical treatment processing facility.
- VRQ407 – Principles and practices of managing a biological treatment processing facility.
- VRQ408 – Principles and practices of managing a thermal treatment processing facility.
- VRQ409 – Principles and practices of managing land remediation activities.
- VRQ410 – Principles and practices of managing an inert landfill.
- VRQ411 – Principles and practices of managing a mechanical biological treatment facility.
- VRQ412 – Principles and practices of managing an end of life vehicle facility.
- VRQ413 – Principles and practices of managing a metals recycling facility.

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.

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.

How long will it take?

There is no time limit set by WAMITAB for you to complete your qualification. However, your centre may also have some requirements that they will explain to you.

Who will help me achieve my qualification?

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

Your Tutor

The tutor is the person you will have the most contact with as you work towards your qualification. They will provide the training.

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.

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.

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

1. **Planning:** Your tutor will tell you about the mandatory units of the qualification.
2. **Learning:** You will spend time with your tutor and this workbook developing your knowledge.
3. **Assessment:** Your centre will set assignments or exams.
4. **Achievement:** Once you have completed all the units and gathered all the evidence you need, your centre will apply for your WAMITAB certificate.

What are the evidence requirements for this qualification?

The primary sources of evidence for this qualification will be the results from your assignments.

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

- your tutor
- your qualification workbook
- WAMITAB (01604 231950/ www.wamitab.org.uk/info.admin@wamitab.org.uk)

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. 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 25 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.

Determine

To find out or decide. This may involve research, following a set of procedures or carrying out a series of calculations to find a solution.

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

VRQ401: Health and safety in the waste and resource management industry

Level: 4		
Credit Value: 4		
Learning Outcomes		
1. Know the main requirements of health and safety legislation in the waste and resource management industry.		
Assessment Criteria	Indicative Content	Learner Answer
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"> employers employees others 	Your answer should: <ul style="list-style-type: none"> The title and sections of the relevant legislation from which each example is taken. Explain four health and safety responsibilities of employers in the workplace. Explain four health and safety responsibilities of employees in the workplace. Explain one health and safety responsibility of organisations to others in the workplace (including reference to who the term 'others' refers to). 	
1.2 Identify how to locate current health and safety information.	Your answer should list and briefly describe how to locate current health and safety information. Please refer to both internal and external sources.	
1.3 Describe the main features and legal requirements for: <ul style="list-style-type: none"> fire risk assessments accident management plans CoSHH 	Your answer should describe the main features and legal requirements for each of the bullet pointed items. You will need to provide a vivid picture of what they are by using imagery, adjectives and adverbs to make your answer	

<ul style="list-style-type: none"> • PUWER • LOLER • DSEAR 	easy to understand.	
Learning Outcomes		
2. Understand the hazards, risks, control measures and monitoring associated with a waste and resource management environment.		
Assessment Criteria	Indicative Content	Learner Answer
2.1. Explain the difference between a hazard and a risk.	<p>Your answer should explain the difference between a hazard and a risk. You will need to include:</p> <ul style="list-style-type: none"> • Define a hazard. • Define a risk. 	
2.2. Explain how to complete a risk assessment.	Your answer should identify the five steps to risk assessment as detailed in the current Health and Safety Executive guidance and explain how these steps can be used to complete a risk assessment on a waste management facility.	
2.3. Explain the difference between a formal and dynamic risk assessment.	Your answer should clearly illustrate the difference between a 'formal' and 'dynamic' risk assessment.	
2.4. Explain the hierarchy of 'control measures'.	Your answer should explain the principles behind the hierarchy of 'control measures' as set out in current Health and Safety Executive guidance and provide an explanation for each stage of the hierarchy using waste and resource management examples.	
2.5. Describe the characteristics of hazardous substances and their warning labels.	Your answer should describe the characteristics of four hazardous substances. For each, your answer should include:	

	<ul style="list-style-type: none"> • A brief description of the substance. • The substance's hazardous properties. • The image of appropriate warning label(s). 	
2.6. State the types of personal protective equipment (PPE) required and how they must be used, maintained and stored.	<p>Your answer should state:</p> <ul style="list-style-type: none"> • The different types of PPE required on site. • When and how they must be used. • How they must be maintained and stored. <p>You may find it easier to display this information in a table.</p>	
2.7. Describe the main causes of accidents and incidents in the workplace.	Your answer should describe five hazards that cause accidents and incidents in the workplace, using statistics to support your answer.	
2.8. Explain the control measures used in the workplace to mitigate the risk of harm.	For the hazards identified in 2.7, explain two control measures for each and how these would mitigate the risk of harm.	
Learning Outcomes		
3. Understand the principles of accident investigation and reporting in the waste and resource management industry		
Assessment Criteria	Indicative Content	Learner Answer
3.1 List the steps involved in an accident and incident investigation in line with current regulator guidance.	Your answer should list the four steps involved in an accident and incident investigation stating the current Health and Safety Executive guidance.	
3.2 Explain how to carry out an accident and incident investigation in line with current regulator guidance.	Your answer should explain how you would carry out an investigation using these steps in a waste and resource management facility.	
Learning Outcomes		
4. Understand the practises for controlling the safety of contractors and other site users.		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Explain the steps required to appoint contractors on a waste management facility in	Your answer should explain the steps you should undertake for the appointment of contractors on	

line with current regulator guidance.	a waste management facility stating the current Health and Safety Executive guidance.	
4.2 Describe the topics to be included in a site induction for a visitor to a waste and resource management facility.	Your answer should describe four topics you would include in a site induction for a site visitor to a waste and resource management facility.	
Learning Outcomes		
5. Understand safe working practices to control the use of vehicles plant and equipment on site.		
Assessment Criteria	Indicative Content	Learner Answer
5.1 Explain how each of the following areas contributes to safe working at a waste and resource management facility for plant and processing equipment: <ul style="list-style-type: none"> • Maintenance • Operative training • Operating procedures 	Your answer should explain how each of the following contribute to safe working at a waste and resource management facility: <ul style="list-style-type: none"> • Maintenance • Operative training • Operating procedures You should use one named example of an item of plant or processing equipment in your answer.	
5.2 Explain the purpose of a traffic management plan in relation to the safe operation of a waste management facility.	Your answer should explain the purpose of a traffic management plan in relation to the safe operation of a waste management facility.	
5.3 Summarise the key points of a traffic management plan in line with current regulator guidance.	Your answer should summarise a minimum of five points that should be included within a traffic management plan stating relevant regulator guidance.	
Learning Outcomes		
6. Understand the requirement for permits to work in a waste and resource management facility		
Assessment Criteria	Indicative Content	Learner Answer
6.1 List the circumstances that may require the issue of a permit to work.	Your answer should list three examples of when you may need to issue a permit to work.	
6.2 Differentiate between the permit to work	Using three examples differentiate between the	

system and a normal risk assessment.	permit to work system and a normal risk assessment.	
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VRQ402: Environmental protection in the waste and resource management industry

Level: 4		
Credit: 4		
Learning Outcome		
1. Understand the systems required to protect the environment and ensure compliance with an environmental permit.		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Identify the rules within an environmental permit that refer to managing emissions to air, water and land.	<p>Your answer should list and briefly describe a minimum of two rules within a specific environmental permit that refer to managing emissions to air, water and land.</p> <p><i>Hint: you could quote the wording from the environmental permit as long as you include the Standard Rules Permit Number where applicable. If you are using a bespoke permit as an example, you could add a screen shot of the rules to your assignment.</i></p>	
1.2 Describe the systems for managing emissions to air, water and land in accordance with the identified permit rules.	Your answer should describe the systems you would need to have in place to ensure that you manage emissions in accordance with the identified permit rules.	
1.3 Describe the purpose of a written management system.	Your answer should describe the purpose of a written management system.	
1.4 Describe the content of a written management system according to regulatory guidance.	Your answer should describe the content of a written management system. Your answer must refer to regulatory guidance.	
1.5 Identify the possible environmental incidents that could be included in a written management system.	This answer should briefly describe two examples of possible environmental incidents that could be included in a written management	

	system.	
1.6 Explain the proactive and reactive measures used to manage the risk posed by possible environmental incidents.	Your answer should explain two proactive and two reactive measures that you would have in place for one of the identified possible environmental incident referred to in 1.5.	
1.7 Describe the reporting procedure for notifying the regulator of an environmental incident in accordance with the environmental permit.	<p>Your answer should:</p> <ul style="list-style-type: none"> • Outline the reporting procedure for notifying the regulator of an environmental incident in accordance with the environmental permit. • Refer to the timescales for reporting. • State what records must be kept. <p><i>Hint: you could quote the wording from the environmental permit as long as you include the Standard Rules Permit Number where applicable and describe in your own words how you would do this e.g. the type of information you would provide. If you are using a bespoke permit as an example, you could add a screen shot of the rules to your assignment.</i></p>	
Learning Outcome		
2. Understand how to assess the environmental impact of work activities and how this can be minimised.		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe what is meant by the term 'environmental risk assessment.'	Provide a definition of environmental risk assessment.	
2.2 Describe the process of completing an environmental risk assessment in accordance with regulatory guidance.	Your answer should identify and describe the steps involved in an environmental risk assessment. Your answer must refer to regulatory guidance.	

2.3 Describe the components of the 'pollutant linkage'	Your answer should describe the three components of the 'pollutant linkage.'	
2.4 Explain how to assess the impact of work activities and resource use in the environment.	Your answer should use a specific example in order to explain how to assess the impact of work activities AND resources on the environment. Your answer must make reference to how you would use risk analysis to determine the scale and potential impact.	
2.5 List the sources of specialist advice available to manage the environmental impact of work activities and resource use.	Your answer should list three sources of specialist advice (e.g. organisations, departments etc. available to help manage the environmental impact of work activities and resource use.	
Learning Outcome		
3. Understand the legal and organisational requirements for managing the risk of fires on site.		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe the regulatory requirements for fire prevention on sites that store combustible wastes.	Your answer should describe the regulatory requirements for fire prevention plans on sites that store combustible wastes. <i>Hint: you may want to refer to Standard Rule or Bespoke Permit clauses on fire prevention plans in your answer.</i>	
3.2 List the key areas that should be included within a fire prevention plan.	Your answer should list the key areas that should be included in a fire prevention plan.	
3.3 Explain the organisational procedures for managing the risk of fires on site.	Your answer should explain three procedures an organisation could put in place to manage the risk of fire on a site.	

Learning Outcome		
4. Understand the potential environmental and amenity impacts of waste and resource management		
Assessment Criteria	Indicative Content	Learner Answer
4.1 List the potential or actual environmental and amenity impacts of waste and resource management.	Your answer should list a minimum of four potential or actual environmental impacts that may arise from a specified type of permitted wastes and resources facility.	
4.2 Explain how the impacts identified may affect the environment.	Your answer should explain how the four impacts identified in 4.1 affect the environment.	
4.3 Describe how environmental and amenity impacts can be managed to prevent or reduce the negative effects to the environment.	Using two examples, describe how environmental and amenity impacts can be detected and managed to prevent or reduce negative effects to the environment.	
4.4 Describe the environmental risks posed by the break down of processing plant and equipment.	Your answer should: <ul style="list-style-type: none"> • Identify a piece of processing plant or equipment that you are familiar with. • Describe three environmental risks which may occur as a result of this breaking down. 	
4.5 Describe how the environmental risks posed by the break down of processing plant and equipment can be managed to prevent or reduce the negative effects on the environment.	Your answer should describe an action that you would take for each of the risks identified in 4.4 to prevent or reduce the impact on the environment. <i>Hint: you are taking action to reduce the impact after the plant or equipment has broken down (reactive). Preventative actions (e.g. an improved maintenance schedule) will not answer the question.</i>	

VRQ403: Principles of sustainable waste and resource management

Level: 4		
Credit: 4		
Learning Outcome		
1. Understand the principles of sustainable waste and resource management.		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe what is meant by the term 'sustainable waste management.'	Provide a definition of sustainable waste management and where it is derived from.	
1.2 Summarise the principles of sustainable waste management.	Your answer should summarise three principles of sustainable waste management.	
1.3 Describe the factors that could prevent waste being managed in the most sustainable manner.	You should describe two factors or issues that could prevent waste being managed in the most sustainable manner.	
Learning Outcome		
2. Understand the waste hierarchy and its application in sustainable waste and resource management.		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the principles underpinning the waste hierarchy.	You should describe: <ul style="list-style-type: none"> • What the waste hierarchy is. • Who it applies too. • The legislation that introduced the waste hierarchy (both UK and EU). 	
2.2 Explain the stages of the waste hierarchy.	Your answer should provide an explanation of the five stages within the waste hierarchy. Provide examples to support your explanation at each stage.	
2.3 Identify physical, chemical, thermal and biological treatment methods.	You should list and briefly describe a minimum of one treatment method under each of the headings (physical, chemical, thermal and biological).	
2.4 State which stage of the waste hierarchy physical, chemical, thermal and biological treatment methods relate to.	Your answer should state which stage of the waste hierarchy each of the treatment methods identified in 2.3 relate to.	

2.5 Describe the environmental impacts of diverting waste and resources away from landfill.	Your answer should describe: <ul style="list-style-type: none"> • Two positive environmental impacts of diverting waste and resources away from landfill. • Two negative environmental impacts of diverting waste and resources away from landfill. 	
Learning Outcome		
3. Understand the principles and procedures of waste and resource transfer and treatment facilities		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Explain reasons for using a waste transfer and treatment facility.	Your answer should provide two reasons to explain why waste producers and waste operators may need to use a waste transfer and treatment facility.	
3.2 List different systems that can be used for the delivery of waste from the producer to a waste transfer and treatment facility.	List three different systems that can be used for the delivery of waste from the producer to a transfer and treatment facility.	
3.3 Explain why different delivery systems would be suitable for different waste streams.	Using each of the delivery systems identified in 3.2, explain why that system may be used for different types of what stream.	

VRQ404: Legislation for the operation of a waste management facility

Level: 4		
Credit: 5		
Learning Outcome		
1. Understand the regulatory framework and policies relevant to waste and resource management facilities		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Explain the difference between UK Acts of Parliament, regulations and codes of practice	Your answer should explain the difference between Acts of Parliament, regulations and codes of practice. Please use examples to illustrate your points.	
1.2 Describe UK Acts of Parliament which directly affect waste management operations	You should focus your answer on two UK Acts of Parliament and describe how they affect a specific permitted facility – your own, if possible.	
1.3 Describe UK regulations that directly affect waste management operations	You should describe two UK regulations that directly affect waste management operations and derive from the UK Acts of parliament identified in 1.2.	
1.4 Explain the difference between civil and criminal liability in relation to operating a waste and resources management facility	Your answer should explain the difference between civil and criminal liability using waste and resource management examples.	
1.5 Explain how criminal penalties are determined using current sentencing guidelines.	Your answer should explain how criminal penalties are determined using current sentencing guidelines. Your answer must refer to the culpability and harm categories.	
Learning Outcome		
2. Understand the requirements of planning legislation as applied to the waste and resource management industry		
Assessment Criteria	Indicative Content	Learner Answer
2.1 State the current planning legislation in relation to waste and resources management facilities	State the full title of one piece of planning legislation related to waste and resources facilities.	
2.2 Identify current planning guidance in relation to waste and resources management facilities	Your answer should list and briefly describe one planning guidance document relating to waste and resource management.	

2.3 Describe key documents that are required as part of a new planning application or variation of an existing planning permission for a waste and resources management facility	Your answer should identify and describe three of the key documents required when making a new planning application or variation of an existing planning permission for a waste and resource management facility.	
2.4 Explain how the planning system can influence the development of waste treatment technologies	Your answer should explain two ways in which the planning system can impact the development of waste treatment technologies. Use examples to illustrate your points.	
Learning Outcome		
3. Understand the requirements of permitting legislation as applied to the waste and resource management industry		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe the following: <ul style="list-style-type: none"> • Waste Exemptions • Standard Rules Permits • Bespoke Permits 	Briefly describe each of the following in turn, including their use, content and legal requirements: <ul style="list-style-type: none"> • Waste Exemptions • Standard Rules Permits • Bespoke Permits 	
3.2 Describe what information is required when applying for an environmental permit	Your answer should describe three documents or pieces of information that would be required to apply for an environmental permit.	
3.3 Describe the components of the 'operator competence' requirements	Your answer should describe three different components of the operator competence requirements.	
3.4 Describe the different types of permit variation	Your answer should describe three different types of permit variation.	
3.5 Explain the mechanism and information required to transfer an environmental permit	Explain how to transfer an environmental permit and within your answer include three documents or pieces of information that will be required to do so.	
3.6 Explain the mechanism and information required to surrender an environmental permit	Explain how to surrender an environmental permit and within your answer include three documents or pieces of information that will be required to do so.	
3.7 Identify the actions that could be	Your answer should list and briefly describe two	

taken by the environmental regulator in response to breaches of an environmental permit.	actions that could be taken by the environmental regulator in response to breaches of an environmental permit.	
3.8 Describe the circumstance that would allow liquids to be discharged to surface water under a standard rules permit	Your answer should describe the circumstances that would allow discharge of liquids to surface water. Refer to permit conditions and relevant legislation in your answer.	
3.9 State the options available in order to remove contaminated liquids from a permitted waste facility.	Your answer should state two options for removing contaminated liquids from a permitted waste facility.	
Learning Outcome		
4. Understand the legislation and policies relevant to responsibilities within the waste and resource management industry		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Explain the concept of producer responsibility	Your answer should explain what is meant by producer responsibility and why it is in place.	
4.2 Identify sectors that are obligated under producer responsibility legislation	List and briefly describe three separate sectors that have obligations under legislation for producer responsibility.	
4.3 Describe the requirements of the producer responsibility legislation	Your answer should describe two requirements of producer responsibility legislation.	
4.4 State the legislation that imposes “duty of care” responsibilities for waste and resources management activities	State the full title of the legislation and the relevant section.	
4.5 Describe the legal requirements of Duty of Care legislation applicable to waste and resources management	Your answer should describe five legal requirements as part of the Duty of Care applicable to waste and resource management.	
4.6 List the parties who have responsibilities under Duty of Care	List three parties who have responsibility under Duty of Care.	
4.7 Explain why it is important to carry out checks in accordance with the Duty of Care legislation prior to passing waste on.	Your answer should: <ul style="list-style-type: none"> • Explain why duty of care checks are important, referring to the legal requirements in 4.5. • Consider the issues associated with failing to complete these checks. 	

4.8 State the current legislation that refers to carriers of controlled waste	State the full name of the legislation and the relevant section.	
4.9 Distinguish between the tiers of waste carriers, brokers and dealers	<p>Your answer should explain the differences between the tiers of waste carriers, brokers and dealers by:</p> <ul style="list-style-type: none"> • Providing a definition of each. • Providing a brief description of their roles. <p><i>Hint: to distinguish you must look at the characteristics of waste carriers, brokers and dealers, and explain the differences.</i></p>	
4.10 State the current regulations that address the collection, treatment, storage and disposal of catering and food waste	State the full title of the regulations.	
4.11 Describe the current regulations that address the collection, treatment, storage and disposal of catering and food waste	Your answer should describe the current regulations (identified in 4.10) that address the collection, treatment, storage and disposal of catering and food waste.	
4.12 Identify guidance documents that can be used to support the operation of waste and resource management facilities	<p>Your answer should list and briefly describe the guidance documents, providing the website address.</p> <p><i>Hint: guidance documents could be either and/or Waste Regulatory, Waste Planning or Health and Safety.</i></p>	
4.13 Explain how guidance documents can be used to support the operation of waste and resource management facilities	Your answer should explain how guidance documents can assist in the operation of a wastes and resource management facility. You will need to refer to two specific guidance documents.	
Learning Outcome		
5. Understand the regulatory framework relevant to waste and resource management facilities		
Assessment Criteria	Indicative Content	Learner Answer
5.1 Explain how to establish an European Waste Code (EWC) for wastes	Your answer should set out the sequence of steps taken to establish the correct EWC code for wastes referring to the regulator guidance.	

5.2 Distinguish between absolute and mirror entries in the European Waste Codes (EWC) list	<p>Your answer should:</p> <ul style="list-style-type: none"> • Provide a definition of absolute entries. • Provide a definition of mirror entries are. • Explain two differences between them. <p><i>Hint: to distinguish you must look at the characteristics of absolute and mirror entries, and explain the differences.</i></p>	
5.3 Complete a waste transfer note for a waste stream that is removed from a permitted waste facility	<p>To answer this you should complete a waste transfer note using the scenario provided. This could be from your own permitted facility, or an example based on a fictional facility. It must be correctly completed in line with guidance and legislation.</p> <p><i>Please note: you must use a waste transfer note template issued by the regulator.</i></p>	
5.4 Explain why it is important to accurately describe waste on a waste transfer note	<p>Your answer should include:</p> <ul style="list-style-type: none"> • Two reasons why accurate descriptions of waste on waste transfer notes are important. • The consequences of failing to accurately describe wastes. 	
5.5 Identify the regulations and guidance applicable to hazardous waste	<p>Your answer should list and briefly describe:</p> <ul style="list-style-type: none"> • One regulation that can be applied to hazardous waste. • One guidance document that can be applied to hazardous waste. 	
5.6 State the definition for hazardous waste	<p>State the full, legal definition of hazardous waste. Your answer should reference the full title and section of the legislation.</p>	
5.7 Complete a hazardous waste consignment note for a hazardous waste stream that is removed from a permitted waste facility	<p>To answer this you should complete a hazardous waste consignment note using the scenario provided. This could be from your own permitted facility, or an example based on a fictional facility. It must be</p>	

	<p>correctly completed in line with guidance and legislation.</p> <p>Please note: you must use a hazardous consignment note template issued by the regulator.</p> <p>Please note: you must use a hazardous consignment note template issued by the regulator. Only complete the first page PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY, parts A to E.</p>	
5.8 Describe the process for completion of a hazardous waste consignment note	<p>Your answer should describe the process in your own words. Your answer should include:</p> <ul style="list-style-type: none"> • How to complete the five sections of the consignment note. • Who must complete each section. • Who must check each section during the transfer process. 	
5.9 Explain why it is important to check the information on a hazardous waste consignment note prior to accepting a waste load.	<p>Your answer should:</p> <ul style="list-style-type: none"> • Explain why it is important to check the information on a hazardous waste consignment note prior to accepting a waste load. • Consider the consequences associated with failing to carry out these checks. 	
5.10 State the authorisations that may be required for the carriage of hazardous waste	State two authorisations that may be required, and who these are obtained from.	
Learning Outcome		
6. Understand the definition and classification of waste and the use of waste acceptance procedures in the waste and resources industry		
Assessment Criteria	Indicative Content	Learner Answer
6.1 State the legal definition of controlled waste	Your answer should define 'controlled waste' in legal terms. In your definition, you will need to include reference to current legislation and guidance.	
6.2 Describe the classifications of controlled waste	Your answer should describe three waste classifications, giving two examples for each class.	

6.3 State the legislation which mandates the requirement for an environmental permit	State the full title of the legislation.	
6.4 Describe the principles of quality protocols	Your answer should describe two principles of quality protocols.	
6.5 Identify examples of quality waste protocols	List and briefly describe two examples of quality waste protocols.	
6.6 State the UK regulations which detail the three steps of the landfill waste acceptance procedures	State the full title of the regulations.	
6.7 Describe the requirements within the three steps of the UK landfill waste acceptance procedures	Your answer should describe requirements for each of the three steps for waste acceptance at a landfill site.	

VRQ405: Stakeholder communication and other non-legislative factors affecting the waste and resource management industry

Level: 4		
Credit: 4		
Learning Outcome		
1. Understand key stakeholders within the waste and resources management sector.		
Assessment Criteria	Indicative Content	Learner Answer
1.1 List internal and external Stakeholders that can have an interest in the operation of a permitted waste facility.	Your answer must list two internal and three external stakeholders that can have an interest in the operation of a permitted waste facility.	
1.2 Describe how stakeholders can have an impact on the way a permitted waste facility is operated.	You should base your answer on the stakeholders that you identified in 1.1 above and tailor it to a permitted facility.	
1.3 Describe how communication and consultation can benefit a permitted waste facility's relationship with the local community.	Your answer should: <ul style="list-style-type: none"> Describe two ways of communicating with the local community that can benefit a permitted waste facility. Describe two ways of consulting with the local community that can benefit a permitted waste facility. 	
1.4 Describe how effective communication and consultation can improve relations within the workplace.	Your answer should describe two examples of how effective communication and consultation with employees at all levels of the business can improve working relationships.	
1.5 Describe methods of communication used for different stakeholder groups.	Using the stakeholders you identified in 1.1, your answer should describe methods of communication that could be used to communicate to these groups in an effective way.	

	<i>Please note: to avoid repetition, your answer should not use members of the local community as an example stakeholder.</i>	
Learning Outcome		
2. Understand the roles of the regulators working with the wastes and resources management		
Assessment Criteria	Indicative Content	Learner Answer
2.1 List the regulators who enforce regulations relevant to operating a permitted waste and resources management facility.	Your answer should list three regulators who enforce regulations for permitted waste management facilities.	
2.2 Explain the roles of regulators in enforcing permitted waste and resource management facilities.	Your answer should explain the roles of the regulators identified in 2.1.	
2.3 Describe the powers of entry for regulators of permitted waste and resource management facilities.	Your answer should describe the powers of entry for each regulator that you identified in 2.1. Your answer must describe: <ul style="list-style-type: none"> • Any relevant regulation(s). • Any circumstances when entry is or is not permitted. • Any requirements on the officer to enforce their power of entry e.g. show a warrant card. 	
2.4 Describe enforcement actions which can be taken by regulators of permitted waste and resource management facilities.	Your answer should describe one enforcement option for each regulator identified in 2.1. Your answer must describe: <ul style="list-style-type: none"> • When the enforcement option for each regulator may/may not be used. • Any timescales involved. 	

	<ul style="list-style-type: none"> Any responses available to the recipient e.g. right to appeal. 	
Learning Outcome		
3. Understand how non-legislative factors affect changes in wastes and resource management practice.		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Identify non-legislative factors which may affect waste and resources management practices.	Your answer should list and briefly describe three non-legislative factors which may affect how waste and resource management practices change over time.	
3.2 Evaluate how non-legislative factors may influence how waste and resources are managed in the future.	<p>Your answer should evaluate how the non-legislative factors identified in 3.1 may influence the management of waste and resources in the future.</p> <p>You should consider:</p> <ul style="list-style-type: none"> How these non-legislative factors would impact the waste and resource management industry in the UK. How these non-legislative factors may change how waste and resources are managed on a waste site. The impacts making these changes could have on waste operators in the future. <p><i>Hint: Evaluation involves considering each non-legislative factor and suggesting other relevant, significant or possible outcomes with reasons to justify your suggestions.</i></p>	
Learning Outcome		
4. Understand operator responsibilities for data collection, reporting, storage and retention in relation to a waste and resources management facility.		
Assessment Criteria	Indicative Content	Learner Answer

4.1 List the types of data that are collected as specified within a permit.	Your answer should list five types of data that are collected as required by a permit. Your answer should include the relevant permit rules as set out in a specified Standard Rules Permit.	
4.2 State the storage periods for data in line with current guidance.	Use the list of data in 4.1 and state storage periods for each referring to the document or guidance that stipulates the storage periods.	
4.3 Explain the methods of storing data.	Your answer should describe how data is stored for the items listed in 4.1.	
4.4 Identify recipients of data and reporting mechanisms.	Your answer should list and briefly describe: <ul style="list-style-type: none"> • Two intended recipients of the data identified in 4.1 • How the data will be reported/submitted. 	
4.5 Describe factors that could negatively effect the collection, reporting or storage of data in line with permit requirements.	Describe three factors that could have a negative effect on the collection, reporting and storage of data in line with permit requirements.	
4.6 Describe the consequences of not collecting, reporting or storing data in line with permit requirements.	Describe three consequences of failure to collect, report and store data in line with permit requirements.	
Learning Outcome		
5. Understand the skills and training requirements for waste operations.		
Assessment Criteria	Indicative Content	Learner Answer
5.1 List the skills required to manage waste operations.	Choose a type of site and list the skills required for waste operations.	
5.2 Describe how to ensure that relevant staff have the required skills and training.	Your answer should describe: <ul style="list-style-type: none"> • The checks on staff skills and training carried out. • The actions that could be taken to address deficiencies. • The records that must be kept. 	
5.3 Describe how to communicate the	Your answer should describe how to communicate a	

programme of work and operational instructions to all site personnel both verbally and in writing.	programme or work and operational instructions to all site personnel verbally and in writing.	
5.4 Explain why it is important to ensure that staff understand instructions, and how to ensure this is achieved.	Your answer should explain: <ul style="list-style-type: none"> • Why it is important to ensure that staff understand instructions. • How to ensure that staff understand instructions. 	

Optional Units

VRQ406: Principles and practices of managing a physical treatment processing facility

Level: 4		
Credit: 2		
Learning Outcome		
1. Understand how waste is received or rejected at a physical treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe the procedures for waste reception at a physical treatment facility	Your answer should describe the organisational procedures for waste reception at a physical treatment facility.	
1.2 List the waste reception records kept at a physical treatment facility	Your answer should list three records that you keep relating to waste reception at a physical treatment facility.	
1.3 Describe the procedures for the rejection of waste from a physical treatment facility	Your answer should describe the procedures for the rejection of waste from a physical treatment facility.	
Learning Outcome		
2. Understand the principles of physical treatment at a waste and resources treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the physical treatment methods and the principles upon which they are based	Your answer should describe three physical treatment methods and the principles upon which they are based.	
2.2 Identify the waste types that can be treated using physical treatment methods	Your answer should list and briefly describe two wastes types that can be treated by each of the physical treatment methods identified in 2.1.	
2.3 Describe how different waste types can impact physical treatment methods	Your answer should describe how the waste types identified in 2.2 can impact on the treatment methods identified in 2.1.	
Learning Outcome		
3. Understand what emissions, products and residual wastes are associated with physical treatment methods and how these can be managed		

Assessment Criteria	Indicative Content	Learner Answer
3.1 List the emissions from physical treatment methods	Your answer should list three emissions from the physical treatment methods identified in 2.1.	
3.2 List the products from physical treatment methods	Your answer should list two products from the physical treatment methods identified in 2.1.	
3.3 Explain how emissions can be controlled and managed	Your answer should explain how the emissions identified in 3.1 can be controlled and managed.	
3.4 Describe the end uses of the products from physical treatment methods	Your answer should describe one end use of the two products identified in 3.2.	
3.5 Explain how residual waste from physical treatment methods can be controlled and managed	Your answer should explain how residual waste from physical treatment methods can be controlled and managed.	
Learning Outcome		
4. Understand the technical benefits, environmental benefits and problems associated with physical treatment methods		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Explain the technical benefits of physical treatment methods	Your answer should explain two technical benefits of the physical treatment methods identified in 2.1.	
4.2 Explain the environmental benefits of physical treatment methods	Your answer should explain one environmental benefit of the physical treatment methods identified in 2.1.	
4.3 Describe the problems associated with physical treatment methods	Your answer should describe three problems associated with each of the physical treatment methods identified in 2.1.	
4.4 Explain how problems can be controlled and managed	Your answer should explain how the problems identified in 4.3 can be controlled and managed.	
4.5 Explain why it is important to ensure compliance with an Environmental Permit for a physical treatment facility	Your answer should explain three reasons why it is important to ensure compliance with an environmental permit for a physical treatment	

	facility.	
Learning Outcome		
5. Understand the factors that may limit the uptake of physical treatment methods		
Assessment Criteria	Indicative Content	Learner Answer
5.1 List factors that may limit the use of physical treatment methods	Your answer should list three factors that may limit the use of physical treatment methods.	
5.2 Explain why certain factors may affect the use of physical treatment methods	Your answer should explain why certain factors may affect the use of physical treatment methods.	

VRQ407: Principles and practices of managing a biological treatment processing facility

Level: 4		
Credit: 3		
Learning Outcome		
1. Understand how waste is received or rejected at a biological treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe the procedures for waste reception at a biological waste treatment facility	Your answer should describe the organisational procedures for waste reception at a biological waste treatment facility.	
1.2 List the records that are kept at a biological waste treatment facility	Your answer should list three records that you keep relating to biological treatment.	
1.3 Describe the procedures for rejection of waste from a biological waste treatment facility	Your answer should describe the procedures for rejection of waste from a biological waste treatment facility.	
Learning Outcome		
2. Understand the principles of open windrow composting as a biological treatment process		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe open windrow composting and the principles upon which it is based	Your answer should describe the open windrow composting treatment method and the principles upon which it is based.	
2.2 Describe the quality protocol associated with open windrow composting	Your answer should describe the quality protocol that applies to open windrow composting.	
2.3 List waste types that can be treated by open windrow composting	Your answer should list two examples of waste types that can be treated by open windrow composting.	
2.4 Describe how waste types can impact on open windrow composting	Your answer should describe how one of the waste types identified in 2.3 can impact on open windrow composting.	
2.5 List waste types that should not be treated	Your answer should list one example of a waste	

by open windrow composting	type that should not be treated by open windrow composting.	
2.6 Explain why certain waste types should not be treated by open windrow composting	Your answer should explain why the waste type identified in 2.5 should not be treated by open windrow composting.	
2.7 Describe the limitations of open windrow composting	Your answer should describe three limitations of open windrow composting.	
Learning Outcome		
3. Understand the principles of in-vessel composting as a biological treatment process		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe in-vessel composting and the principles upon which it is based	Your answer should describe the in-vessel composting treatment method and the principles upon which it is based.	
3.2 Describe the quality protocol associated with in-vessel composting	Your answer should describe the quality protocol that applies to in-vessel composting.	
3.3 List waste types that can be treated by in-vessel composting	Your answer should list two examples of waste types that can be treated by in-vessel composting.	
3.4 Describe how waste types can impact on in-vessel composting	Your answer should describe how one of the examples identified in 3.3 can impact in-vessel composting.	
3.5 Describe the limitations of in-vessel composting	Your answer should describe three limitations of in-vessel composting.	
Learning Outcome		
4. Understand the principles of anaerobic digestion as a biological treatment process		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Describe anaerobic digestion and the principles upon which it is based	Your answer should describe the anaerobic digestion treatment method and the principles	

	upon which it is based.	
4.2 Describe the quality protocol associated with anaerobic digestion	Your answer should describe the quality protocol that applies to anaerobic digestion.	
4.3 List waste types that can be treated by anaerobic digestion	Your answer should list two examples of waste types that can be treated by anaerobic digestion.	
4.4 Describe how waste types can impact on anaerobic digestion	Your answer should describe how one of the waste types identified in 4.3 can impact on anaerobic digestion.	
4.5 Describe the limitations of anaerobic digestion	Your answer should describe three limitations of anaerobic digestion.	
Learning Outcome		
5. Understand the technical benefits, environmental benefits and problems associated with biological treatment processes		
Assessment Criteria	Indicative Content	Learner Answer
5.1 Explain why it is beneficial to implement quality protocols for biological treatment	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment.	
5.2 Describe the technical benefits associated with biological treatment processes.	For one type of biological treatment process, describe one technical benefit.	
5.3 Describe the environmental benefits associated with biological treatment processes.	For one type of biological treatment process, identify and explain one environmental benefit.	
5.4 Describe the potential problems associated with biological treatment processes.	For each of the biological treatment processes, describe a potential problem that could occur.	
5.5 Explain how potential problems can be controlled and managed.	Your answer should explain how each of the potential problems identified in 5.4 can be controlled and managed.	
Learning Outcome		
6. Understand what emissions, products and residual wastes are associated with biological treatment processes and how these can be managed		
Assessment Criteria	Indicative Content	Learner Answer
6.1 List the emissions from biological treatment	Your answer should list two emissions from each	

processes.	of the biological treatment processes.	
6.2 Explain how emissions from biological treatment processes can be controlled and managed	Your answer should explain how each of the emissions identified in 6.1 can be controlled and managed.	
6.3 List the products from biological treatment processes.	Your answer should list one product from each biological treatment process.	
6.4 Describe the end uses of products from biological treatment processes.	Your answer should describe one end use for each of the products identified in 6.3.	
6.5 Identify the residual wastes produced by biological treatment processes.	Your answer should identify one residual waste from each of the biological treatment processes.	
6.6 Explain how residual waste from biological treatment processes can be controlled and managed.	Your answer should explain how the residual waste identified in 6.5 can be controlled and managed.	
6.7 Explain why it is important to ensure compliance with an environmental permit for a biological treatment facility.	Your answer should explain three reasons why it is important to ensure compliance with an environmental permit for a biological treatment facility.	

VRQ408: Principles and practices of managing a thermal treatment processing facility

Level: 4		
Credit: 2		
Learning Outcome		
1. Understand the principles of thermal treatment at a waste and resources treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe the thermal treatment methods and the principles upon which they are based	Your answer should describe three thermal treatment methods and the principles upon which they are based.	
1.2 Identify the waste types that can be treated using thermal treatment methods	Your answer should list and briefly describe two waste types that can be treated by each of the thermal treatment methods identified in 1.1.	
1.3 Describe how different waste types can impact thermal treatment methods	Your answer should describe how the waste types identified in 1.2 can impact on the treatment methods identified in 1.1.	
1.4 Explain the limitations of thermal treatment methods	Your answer should explain one limitation for each of the thermal treatment methods identified in 1.1.	
Learning Outcome		
2. Understand how waste is received or rejected at a thermal treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the procedures for waste reception at a thermal treatment facility	Your answer should describe the organisational procedures for waste reception at a thermal treatment facility.	
2.2 List the waste reception records kept at a thermal treatment facility	Your answer should list three records that you keep relating to waste reception at a thermal treatment facility.	
2.3 Describe the procedures for the rejection of waste from a thermal treatment facility	Your answer should describe the procedures for the rejection of waste from a thermal treatment	

	facility.	
Learning Outcome		
3. Understand what emissions, products and residual wastes are associated with thermal treatment methods and how these can be managed		
Assessment Criteria	Indicative Content	Learner Answer
3.1 List the emissions from thermal treatment methods	Your answer should list three emissions from the thermal treatment methods identified in 1.1.	
3.2 List the products from thermal treatment methods	Your answer should list two products from the thermal treatment methods identified in 1.1.	
3.3 Explain how emissions can be controlled and managed	Your answer should explain how the emissions identified in 3.1 can be controlled and managed.	
3.4 Describe the end uses of the products from thermal treatment methods	Your answer should describe one end use of the two products identified in 3.2.	
3.5 Explain how residual waste from thermal treatment methods can be controlled and managed	Your answer should explain how residual waste from thermal treatment methods can be controlled and managed.	
Learning Outcome		
4. Understand the technical benefits, environmental benefits and problems associated with thermal treatment methods		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Explain the technical benefits of thermal treatment methods	Your answer should explain two technical benefits of the thermal treatment methods identified in 1.1.	
4.2 Explain the environmental benefits of thermal treatment methods	Your answer should explain one environmental benefit of the thermal treatment methods identified in 1.1.	
4.3 Describe the problems associated with thermal treatment methods	Your answer should describe three problems associated with each of the thermal treatment methods identified in 1.1.	
4.4 Explain how problems can be controlled and managed	Your answer should explain how the problems identified in 4.3 can be controlled and managed.	

4.5 Explain why it is important to ensure compliance with an environmental permit for a thermal treatment facility	Your answer should explain three reasons why it is important to ensure compliance with an environmental permit for a thermal treatment facility.	
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VRQ409: Principles and practices of managing land remediation activities

Level: 4		
Credit: 2		
Learning Outcome		
1. Understand the circumstances for which land remediation activities take place		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Explain why land may need to be remediated.	Your answer should give three reasons why land may need to be remediated.	
1.2 Explain the role of the following in land remediation: <ul style="list-style-type: none"> The desk study. The site investigation. The conceptual model. 	Your answer should explain the role of the three activities listed.	
1.3 Describe the methods used to investigate contaminated land.	Your answer should give three examples of the methods used to investigate contaminated land.	
1.4 Describe the purpose of a risk assessment in relation to contaminated land.	Your answer should describe the purpose of a risk assessment in relation to contaminated land.	
Learning Outcome		
2. Understand the legislative requirements for land remediation activities		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the legislative requirements, regulations, codes of practice and guidance applicable to land remediation activities.	Your answer should: <ul style="list-style-type: none"> Identify three pieces of legislation relating to land contamination. Describe two of the identified pieces of legislation in relation to managing a land remediation activity. Identify three sources of information and guidance relating to land remediation practices. 	

2.2 Describe the planning permission, permit requirements, deployment form and environmental management system (EMS) required for land remediation activities.	Your answer should describe the planning permission, permit requirements, deployment form and environmental management system (EMS) required for land remediation activities.	
Learning Outcome		
3. Understand the role of environmental permit conditions in forming the framework for land remediation activities		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Identify the environmental permit conditions that relate to the environmental risks posed by land remediation activities.	Your answer should list and briefly describe four conditions relating to environmental risks within the standard rules permit for remediation of contaminated land.	
3.2 Describe the points of interaction between an environmental permit and a deployment form.	Your answer should describe four points of interaction between the environmental permit and the deployment form.	
Learning Outcome		
4. Understand the definition of waste relating to land remediation activities		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Define waste in relation to land remediation activities.	Your answer should provide the legal definition of waste in relation to land remediation activities.	
4.2 Describe the circumstances in which soils are considered to: <ul style="list-style-type: none"> • Be non-waste. • Have ceased to be waste after treatment. 	Your answer should describe two circumstances in which soils may be considered to be non-waste, or have ceased to be waste after treatment.	
Learning Outcome		
5. Understand the principles employed in the selection and use of different techniques for remediation of land affected by contamination		
Assessment Criteria	Indicative Content	Learner Answer
5.1 Explain the role of: <ul style="list-style-type: none"> • The options appraisal. 	Your answer should explain the role of the five activities listed.	

<ul style="list-style-type: none"> • The remediation strategy. • The implementation plan. • The verification plan. • The monitoring and maintenance plan. 		
5.2 Describe the key features of: <ul style="list-style-type: none"> • A verification plan. • A monitoring and maintenance plan. 	Your answer should describe two elements from: <ul style="list-style-type: none"> • A verification plan. • A monitoring and maintenance plan. 	
5.3 Define in-situ and ex-situ remediation.	Your answer should provide clear definitions of in-situ and ex-situ remediation.	
5.4 Describe an in-situ remediation technique that may be employed under an environmental permit.	Your answer should give one example of an in-situ remediation technique that may be employed under an environmental permit.	
5.5 Describe the ex-situ remediation techniques that may be employed under an environmental permit.	Your answer should give two examples of ex-situ remediation techniques that may be employed under an environmental permit.	
5.7 Describe the remediation strategy for a specific site.	For a site of your choosing, describe the remediation strategy ensuring your answer includes: <ul style="list-style-type: none"> • Two examples of remediation techniques. • One reason why each of the remediation. • Techniques have been chosen. 	
Learning Outcome		
6. Understand the environmental impacts associated with land remediation activities		
Assessment Criteria	Indicative Content	Learner Answer
6.1 Describe the environmental impacts associated with in-situ and ex-situ remediation techniques.	Your answer should: <ul style="list-style-type: none"> • Describe two potential environmental impacts of one in-situ remediation technique. 	

	<ul style="list-style-type: none">Describe two potential environmental impacts of two ex-situ remediation techniques.	
6.2 Describe the control measures to reduce or eliminate risks to the environment.	Your answer should describe two control measures for each example identified in 5.1.	

VRQ410: Principles and practices of managing an inert landfill

Level: 4		
Credit: 2		
Learning Outcomes		
1. Understand the principles of environmental permitting for the design, construction and operation of inert landfills		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe the legislative requirements, regulations, codes of practice and guidance applicable to an inert landfill.	Your answer should describe the legislative requirements, regulations, codes of practice and guidance applicable to an inert landfill.	
1.2 List the criteria that should be met when undertaking a site investigation for the development of an inert landfill.	Your answer should list three criteria that should be met when undertaking a site investigation for the development of an inert landfill.	
1.3 Explain why it is important to meet the criteria for an inert landfill site investigation.	For two of the criteria identified in 2.1, explain why it is important that a site investigation for the development of an inert landfill meets these criteria.	
1.4 Identify the key requirements of an Environmental Risk Assessment for an inert landfill.	Your answer should identify five key requirements of an environmental risk assessment for an inert landfill. These should not cover any of the requirements already included in the Environment Agency's generic risk assessment for the use and disposal of inert waste to land.	
1.5 Describe the requirements for the placement and integrity of the geological barrier and its protection from the initial layer of inert waste.	Your answer should describe two engineering requirements for the development of a geological barrier at an inert landfill site.	
1.6 Describe the site procedures required for the management control of cell preparation operations.	Your answer should describe the procedures required for the management control of cell preparation operations.	

1.7 Describe the control and management systems needed for: <ul style="list-style-type: none"> • Surface water drainage • Gas management • Leachate management 	Your answer should describe the control and management systems needed for: <ul style="list-style-type: none"> • Surface water drainage • Gas management • Leachate management 	
1.8 Explain why it is important to monitor the site hydrogeological conditions.	Your answer should include: <ul style="list-style-type: none"> • The principles of hydrogeological risk assessment. • Two factors that should be included in a hydrogeological risk assessment. 	
Learning Outcomes		
2. Understand the definition and types of inert waste		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Define inert waste in relation to landfill activities.	Your answer should: <ul style="list-style-type: none"> • Provide the legal definition of inert waste in relation to landfill activities. • List three examples of inert waste. 	
Learning Outcomes		
3. Understand waste treatment and testing requirements		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe the legislative requirements, codes of practice and guidance applicable to the reception of inert waste at an inert landfill.	Your answer should describe the legislative requirements, codes of practice and guidance applicable to the reception of inert waste at an inert landfill.	
3.2 Describe the regulatory requirements and organisational procedures for dealing with unauthorised wastes.	Your answer should describe the regulatory requirements and procedures for dealing with unauthorised wastes.	
3.3 Describe the waste inspection, identification procedures and handling requirements for the	Your answer should: <ul style="list-style-type: none"> • Describe the pre-acceptance requirements 	

types of inert waste received on site.	<p>for an inert landfill.</p> <ul style="list-style-type: none"> • Distinguish between the testing regimes for inert wastes: <ul style="list-style-type: none"> - Regularly generated by the same process - Not regularly generated 	
3.4 Describe the uses, purposes and processing requirements for documents relating to the reception and validation of inert waste received on the site.	Your answer should describe the uses, purposes and processing requirements for two documents relating to the reception and validation of inert waste received on the site.	
3.5 Describe the records required by legislation and by organisational procedures relating to the reception, inspection and validation of inert wastes.	Your answer should describe the records required by legislation and organisational procedures relating to the reception, inspection and validation of inert wastes.	
Learning Outcomes		
4. Understand the environmental and amenity impacts associated with inert landfill and how they can be managed		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Describe the processes on an inert landfill that could impact: <ul style="list-style-type: none"> • The environment • Amenities 	Your answer should describe the processes on an inert landfill that could impact: <ul style="list-style-type: none"> • The environment • Amenities 	
4.2 Explain how these processes are monitored to minimise the impact of an inert landfill on the environment and amenities	Your answer should outline two actions that should be implemented to monitor the environmental and amenity impacts of an inert landfill.	
4.3 List the emissions from an inert landfill	Your answer should list three potential emissions from inert landfills.	
4.4 Describe the potential pathways and receptors for emissions from an inert landfill	For the three potential emissions listed in 4.2, describe the potential pathways and receptors.	

4.5 Describe the methods of controlling and managing the impacts from inert landfill emissions	Your answer should describe two methods of controlling and managing the impacts from the inert landfill emissions listed in 4.2.	
Learning Outcomes		
5. Understand site closure, aftercare and permit surrender requirements		
Assessment Criteria	Indicative Content	Learner Answer
5.1 Describe the legislative requirements, regulations, codes of practice and guidance applicable to restoring and preparing landfill sites for aftercare.	Your answer should describe the legislative requirements, codes of practice and guidance applicable to restoring and preparing landfill sites for aftercare.	
5.2 Explain why it is important to develop a restoration and aftercare scheme for an inert landfill.	Your answer should explain why it is important to develop a restoration and aftercare scheme for an inert landfill.	
5.3 Describe the records required by legislation in relation to the aftercare of landfill sites.	Your answer should: <ul style="list-style-type: none"> List three components of a closure and aftercare management plan for an inert landfill. Explain how these three components can be implemented to ensure an inert landfill remains compliant. 	
5.4 Describe the methods used to deal with birds, vermin, insects, dust, noise and litter during restoration and aftercare operations.	Your answer should describe two methods used to deal with birds, vermin, insects, dust, noise and litter during restoration and aftercare operations.	
5.5 Describe the process of surrendering an environmental permit for an inert landfill.	Your answer should describe two conditions or actions that must be satisfied to enable the surrender of an inert landfill permit.	

VRQ411: Principles and practices of managing a mechanical biological treatment facility

Level: 4		
Credits: 2		
Learning Outcome		
1. Understand how waste is received or rejected at a mechanical biological treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe the procedures for waste reception at a mechanical biological treatment facility	Your answer should describe the organisational procedures for waste reception at a mechanical biological treatment facility.	
1.2 List the waste reception records kept at a mechanical biological treatment facility	Your answer should list three records that you keep relating to waste reception at a mechanical biological treatment facility.	
1.3 Describe the procedures for the rejection of waste from a mechanical biological treatment facility	Your answer should describe the procedures for the rejection of waste from a mechanical biological treatment facility.	
Learning Outcome		
2. Understand the principles of mechanical biological treatment at a waste and resources treatment facility		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the mechanical biological treatment methods and the principles upon which they are based	Your answer should describe the mechanical biological treatment methods and the principles upon which they are based.	
2.2 Identify the waste types that can be treated using mechanical biological treatment methods	Your answer should list and briefly describe two wastes types that can be treated by each of the mechanical biological treatment methods identified in 2.1.	
2.3 Describe how different waste types can impact mechanical biological treatment methods	Your answer should describe how the waste types identified in 2.2 can impact on the treatment methods identified in 2.1.	
2.4 Explain the limitations of mechanical	Your answer should explain three limitations for	

biological treatment methods	each of the mechanical biological treatment methods identified in 2.1.	
Learning Outcome		
3. Understand the technical benefits, environmental benefits and problems associated with mechanical biological treatment methods		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Explain the technical benefits of mechanical biological treatment methods	Your answer should explain two technical benefits of the mechanical biological treatment methods identified in 2.1.	
3.2 Explain the environmental benefits of mechanical biological treatment methods	Your answer should explain one environmental benefit of the mechanical biological treatment methods identified in 2.1.	
3.3 Describe the potential problems associated with a mechanical biological treatment methods	Your answer should describe three problems associated with each of the mechanical biological treatment methods identified in 2.1.	
3.4 Explain how problems can be controlled and managed	Your answer should explain how the problems identified in 3.3 can be controlled and managed.	
Learning Outcome		
4. Understand the factors that may limit the uptake of mechanical biological treatment methods		
Assessment Criteria	Indicative Content	Learner Answer
4.1 List factors that may limit the use of mechanical biological treatment methods	Your answer should list the factors that may limit the use of mechanical biological treatment methods.	
4.2 Explain why certain factors may affect the use of mechanical biological treatment methods	Your answer should explain why certain factors may affect the use of mechanical biological treatment methods.	
Learning Outcome		
5. Understand what emissions, products and residual wastes are associated with mechanical biological treatment processes and how these can be managed		
Assessment Criteria	Indicative Content	Learner Answer

5.1 List the key emissions from mechanical biological treatment methods	Your answer should list three emissions from mechanical biological treatment methods identified in 2.1.	
5.2 Explain how emissions from mechanical biological treatment methods can be controlled and managed	Your answer should explain how the emissions identified in 4.1 can be controlled and managed.	
5.3 List two products from the mechanical biological treatment methods	Your answer should list two products from mechanical biological treatment identified in 2.1.	
5.4 Describe the end uses of the products from mechanical biological treatment methods	Your answer should describe one end use of the two products identified in 4.3.	
5.5 Explain how residual waste from mechanical biological treatment methods can be controlled and managed	Your answer should explain how residual waste from mechanical biological treatment methods can be controlled and managed.	
5.6 Explain why it is important to ensure compliance with an Environmental Permit for a mechanical biological treatment facility	Your answer should explain three reasons why it is important to ensure compliance with an environmental permit for a mechanical biological treatment facility.	

VRQ412: Principles and practices of managing an end of life vehicle facility

Level: 4		
Credits: 3		
Learning Outcomes		
1. Understand how waste is received or rejected at an end of life vehicle facility.		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe UK regulations that directly affect end of life vehicle facilities.	Your answer should: <ul style="list-style-type: none"> Identify the relevant regulations. Describe the relevant regulations, in terms of their key principles and requirements for both operators and producers. 	
1.2 Describe the procedures for waste reception at an end of life vehicle facility.	Your answer should describe the procedures for waste reception at a dismantling and depollution facility. Ensure your answer makes reference to Certificates of Destruction.	
1.3 List the records kept on an end of life vehicle facility and the length of time they should be kept.	Your answer should list three records that you keep on an end of life vehicle facility and the length of time they should be kept.	
1.4 Describe the procedures for rejection of waste from an end of life vehicle facility.	Your answer should describe the procedures for the rejection of waste from an end of life vehicle facility.	
Learning Outcomes		
2. Understand the principles of dismantling and depollution at an end of life vehicle facility.		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the end of life vehicle dismantling methods and the principles upon which they are based.	Your answer should describe: <ul style="list-style-type: none"> The end of life vehicle dismantling methods. The principles upon which they are based. The types of equipment required during the process. 	
2.2 Describe the end of life vehicles categories.	Your answer should describe two categories of end of life vehicles	

2.3 List what should be removed when depolluting an end of life vehicle.	Your answer should list what should be removed when depolluting an end of life vehicle.	
2.4 Explain why certain items should be removed from an end of life vehicle.	Explain why the items listed in 2.3 should be removed from an end of life vehicle. Make reference to the International Dismantling Information System (IDIS) in your answer	
2.5 Describe how certain items can impact on the depollution process.	For four of the items listed in 2.3, describe how four can impact on the depollution process. <i>Hint: you will need to consider relevant health and safety factors in your answer, as well as the practicalities of item removal.</i>	
2.6 Describe the order in which items and liquids should be removed from an end of life vehicle.	Your answer should describe the order in which items should be removed from an end of life vehicle.	
2.7 Explain why items should be removed from an end of life vehicle in this particular order.	Your answer should explain why items should be removed from an end of life vehicle in the order described in 2.6.	
2.8 Describe how all recovered/ removed parts and materials should be stored.	Your answer should describe how all recovered/removed parts and materials should be stored.	
2.9 Explain the limitations of the dismantling and depollution process for end of life vehicles.	Your answer should explain three limitations of the dismantling and depollution process for end of life vehicles. <i>Hint: you will need to consider relevant environmental and health and safety factors in your answer.</i>	
Learning Outcomes		
3. Understand the health, safety and environmental benefits and hazards associated with dismantling and depollution processes.		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe the benefits of complying with health and safety procedures during the	Your answer should describe two benefits of complying with health and safety procedures	

dismantling and depollution process.	during the dismantling and depollution process.	
3.2 Describe the environmental benefits associated with the dismantling and depollution process.	Your answer should describe two environmental benefits associated with the dismantling and depollution process.	
3.3 Describe the potential hazards associated with the dismantling and depollution process.	<p>Your answer should describe:</p> <ul style="list-style-type: none"> • Two potential hazards associated with the dismantling and depollution process. • Two potential hazards associated with handling electric and hybrid vehicles. • Two potential hazards associated with hazardous components e.g. catalytic converters. <p><i>Hint: for each hazard you will need to consider relevant environmental and health and safety factors.</i></p>	
3.4 Describe the risks associated with the dismantling and depollution process can be controlled and managed.	<p>Your answer should describe the risks associated with the dismantling and depollution process can be controlled and managed.</p> <p><i>Hint: refer to the hierarchy of control in your answer.</i></p>	
Learning Outcomes		
4. Understand what pollutants and residual wastes are associated with dismantling and depollution processes and how these can be managed.		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Describe the impact of potential pollutants from the dismantling and depollution process on:	<p>Your answer should describe the impact of four potential pollutants from the dismantling and depollution process on the environment and amenities.</p> <p><i>Hint: refer to the source pathway receptor principle in your answer.</i></p>	
<ul style="list-style-type: none"> • The environment • Amenities 		

4.2 Explain how pollutants can be controlled and managed.	Your answer should explain how two of the pollutants identified in 4.1 can be controlled and managed.	
4.3 Identify the products and materials removed from an end of life vehicle that can be re-used and/or recycled according to the waste hierarchy.	Using the waste hierarchy, your answer should identify which products and materials removed from an end of life vehicle can be re-used and/or recycled.	
4.4 Describe the paperwork required when loads of products and materials are removed from the site.	Your answer should describe the paperwork required when hazardous and non-hazardous products and materials identified in 4.3 are removed from the site.	
4.5 List the waste residues produced during the dismantling and depollution process.	Your answer should list the waste residues produced during the dismantling and depollution process.	
4.6 Explain how waste residues from the dismantling and depollution can be controlled and managed.	Your answer should explain how the waste residues listed in 4.5 can be controlled and managed.	
4.7 Explain why it is important to ensure compliance with an environmental permit for an end of life vehicle facility	Your answer should explain three different reasons why it is important to ensure compliance with an environmental permit for an end of life vehicle facility	

VRQ413: Principles and practices of managing a metals recycling facility

Level: 4		
Credit: 3		
Learning Outcome		
1. Understand how waste is received or rejected at a metals recycling facility.		
Assessment Criteria	Indicative Content	Learner Answer
1.1 Describe UK regulations that directly affect metal recycling facilities.	Your answer should: <ul style="list-style-type: none"> Identify the relevant regulations. Describe the relevant regulations, in terms of their key principles and requirements for both operators and producers. 	
1.2 Describe the procedures for waste reception at a metals recycling facility.	Your answer should describe the procedures for waste reception at a metals recycling facility.	
1.3 List the records kept on a metals recycling facility and the length of time they should be kept.	Your answer should list three records that you keep on a metals recycling facility and the length of time they should be kept.	
1.4 Describe the procedures for the rejection of waste from a metals recycling facility.	Your answer should: <ul style="list-style-type: none"> Describe the procedures for the rejection of waste from a metals recycling facility. Describe the procedure to deal with non-conforming waste found in an accepted load. 	
Learning Outcome		
2. Understand the principles of metals recycling at a waste and resources treatment facility.		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the metals recycling treatment methods and the principles upon which they are based.	Your answer should describe the different metals recycling treatment methods available and the principles upon which they are based.	
2.2 Identify the metal types and grades that can be treated by the metals recycling process.	Your answer should list and briefly describe the metal types and grades that can be treated by the metals recycling process.	

2.3 Describe the stages of the metals recycling treatment process for metal types and grades.	Your answer should describe all stages of the metals recycling treatment process for the metal types and grades identified in 2.2.	
2.4 Explain limitations of the metals recycling treatment process.	Your answer should explain three limitations of the metals recycling treatment process.	
Learning Outcome		
3. Understand the environmental benefits and hazards associated with metals recycling.		
Assessment Criteria	Indicative Content	Learner Answer
3.1 Explain the environmental benefits of metals recycling.	Your answer should explain two environmental benefits of metal recycling.	
3.2 Describe potential hazards associated with the metals recycling process.	Your answer should describe: <ul style="list-style-type: none"> • Three potential hazards associated with the metals recycling process. • The hazards associated with handling hazardous items e.g. lithium ion batteries. 	
3.3 Explain how the risks posed by the hazards identified can be controlled and managed.	Your answer should explain how the risks posed by the hazards identified in 3.2 can be controlled and managed. <i>Hint: refer to the hierarchy of control in your answer.</i>	
Learning Outcome		
4. Understand what emissions and residual waste are associated with metals recycling processes and how these can be managed.		
Assessment Criteria	Indicative Content	Learner Answer
4.1 List the key emissions from the metals recycling process.	Your answer should list the key emissions from the metals recycling process.	
4.2 Explain how emissions can be controlled and managed.	For the emissions identified in 4.1, explain the control measures that can be put in place. <i>Hint: refer to the source pathway receptor principle in your answer.</i>	
4.3 List the waste residues from the metal	Your answer should list the waste residues from	

recycling treatment process.	the metal recycling treatment process.	
4.4 Explain how waste residues from metals recycling treatment can be controlled and managed.	Your answer should explain how each of the waste residues identified in 4.3 can be controlled and managed.	
4.5 Explain where different materials are transferred at the end of the metals recycling process.	Your answer should explain where different materials are transferred at the end of the metals recycling process.	
4.6 Describe the paperwork required when materials are transferred and how it should be completed.	Your answer should describe the paperwork required when these loads are transferred and how it should be completed.	
4.7 Explain why it is important to ensure compliance with an environmental permit for a metals recycling facility.	Your answer should give three reasons why it is important to ensure compliance with an Environmental Permit for a Metals Recycling Facility.	



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