

Version 4, January 2024

Qualification Code: 603/3581/6

CIWM Code: VRQ4

Maximum Guided Learning Hours: 30

Total Qualification Time: 216

Part of the CIWM/WAMITAB
Operator Competence
Scheme

CIWM (WAMITAB)
Level 4 Certificate
in Waste and
Resource
Management

Together, we stand for a world beyond waste

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)

VRQ414 (Storage of Hazardous Waste)

VRQ415 (Land Spreading)

VRQ416 (WEEE Facilities)



About CIWM and this Handbook

About CIWM

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

As the leading professional body for resource and waste professionals, CIWM (Chartered Institution of Wastes Management) is the voice of the sector and represents over 5,500 individuals in the UK and overseas.

CIWM has a unique understanding of the sector. Our professional knowledge and trusted reputation enables us to inform and influence legislation and policy, playing a vital part in shaping the future role and reputation of the sector.

Equal Opportunities

CIWM 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 CIWM Qualification Handbook. This will help you to complete your qualification. It contains:

- 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.

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Candidate Information

Name	
CIWM Learner Number	
Registration Date	
Enrolment Date	
Comba Nama	
Centre Name	
Centre Address	
Centre Address	
Centre Contact	
Cerme Comuci	
Tutor Name	

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Frequently Asked Questions

What is a regulated qualification?

A regulated qualification demonstrates that you have the knowledge, skills and/or understanding to meet the standards expected by employers in your industry. Your qualification is recognised by CIWM and one or more of the educational regulators across the UK.

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 on site. 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

What are the entry requirements of this qualification?

This qualification is open entry. This means that learners interested in undertaking this qualification do not require any other qualifications or levels of attainment in order to take 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 6 units to achieve the qualification. This should be made up of the 5 units from the Mandatory Group and 1 unit 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.

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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.
- VRQ414 Principles and practices of managing a hazardous waste storage facility.
- VRQ415 Principles and practices of managing land spreading activities.
- VRQ416 Principles and practices of managing a WEEE 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 a CIWM (WAMITAB) Qualifications Centre?

You will gain your qualification through a CIWM (WAMITAB)
Qualifications 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 CIWM.
- Provide a registration number.
- Apply for your certificate when you have completed your qualification or units.

How long will it take?

You will have one year to complete your qualification from the date of registration. Your CIWM (WAMITAB) Qualifications Centre or Environmental Regulator may also have some requirements that they will explain to you.

Who will help me achieve my 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.

Assessor

The assessor will be responsible for marking your submissions.

Internal Quality Assurer (IQA)

The IQA maintains the quality of assessment within the centre by internally moderating the assessment standards and accuracy of the assessor's marking.

External Quality Assurer (EQA)

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An EQA is employed by CIWM to ensure that your centre meets the required national standards for quality and assessment.

What are my responsibilities as a learner?

You will need to:

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

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

- 1. **Planning:** Your assessor will tell you about the mandatory units of the qualification and will help you to select relevant optional units.
- 2. **Evidence:** You will gather evidence for your portfolio (see next question for types of evidence).
- 3. **Feedback:** Your assessor will provide regular feedback on your progress and will arrange for additional training if needed. When

your assessor confirms you are competent after an assessment, it will be recorded in your handbook.

 Achievement: Once you have completed all the units and gathered all the evidence you need, your centre will apply for your CIWM certificate.

What are the evidence requirements for this qualification?

The primary sources of evidence for this qualification are:

Question and Answer (Q/A): candidate statements, written questions, in-depth question papers and/or written assignments.

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

- Your assessor
- Your qualification workbook
- CIWM

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Useful Words

Instructional verbs	Definition
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.
Awarding Organisation	To have a qualification recognised in the UK it must be accredited through an awarding body. These
	organisations are regulated by Ofqual in England, Qualifications Wales, CCEA in Northern Ireland and SQA in
	Scotland to ensure that you receive a high quality, recognised qualification upon completion of the course.
CIWM	An Awarding Organisation for a wide range of qualifications in waste management and recycling, cleaning and
	street cleansing, facilities management, and parking. CIWM 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.
CIWM (WAMITAB) Qualifications	These centres are training organisations that have met our strict quality standards and have been approved to
Centre	deliver our qualifications to learners. They include private providers, colleges of further education, employers, and
	prisons.
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.
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.
Multiple Choice Tests	A form of assessment where learners are asked to select the best possible answer from the list provided.
Tutor	A person employed to instruct an individual or small group on a particular topic. Tutors that deliver knowledge
	and understanding qualifications and units should have relevant competence and experience in the subject that
	they are delivering and have experience of delivering vocational learning.
Units – Mandatory and Optional	Units form the building blocks of all qualifications that are nationally regulated on the Qualification Credit
	Framework. Units are small chunks of learning that focus on specific aspects of knowledge, skills and
	understanding.
	Mandatory units are those that you must achieve, and Optional units offer a range of subjects that you may
)/ I	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.

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Unit Terms

Instructional verbs	Definition
Adapt	To change something to make suitable for new purpose.
Advise	To inform someone about a fact or situation formally or officially.
Analyse	To look at something (e.g. a process) and use given classifications or principles to gain a further understanding.
Apply	To put something into action. A "doing" task which requires "real" evidence from a workplace scenario.
Assess	To offer a reasoned judgement of the standard, quality of situation or ability informed by relevant facts.
Brief	To instruct or inform someone thoroughly to prepare them.
Carry out	To undertake an activity of a practical nature.
Check	To verify or establish. To examine something in order to confirm its accuracy, quality or condition.
Collect	To bring or gather together.
Communicate	To share or exchange information, news or ideas by speech, writing etc
Compare	To look at the characteristics of an item or activity and note the similarities and differences.
Complete	To finish.
Comply	To act in accordance with specified standards or requirements.
Conduct	To do or carry out.
Confirm	To check if something is true, correct, completed or in place.
Consult	To seek information or advice from an expert or professional. To have discussions with someone before undertaking a course of action.
Critically Compare	To 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.
Define	Provide a generally recognised or accepted definition.
Demonstrate	To clearly show e.g. by practical exhibition (in real time) and/or historic evidence. These would normally be accompanied by an explanation.
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 e.g. what is relevant. To find a solution by following a set of procedures. To calculate a numeric value.
Develop	Build a process or activity or understanding either from scratch or using an existing product to create something workable.
Differentiate/ Distinguish	To look at the characteristics of an item or situation/activity and explain the differences.
Discuss	To give an account that addresses a range of ideas and arguments.

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Ensure	To make certain that something will occur or is the case.
Establish	To set up.
Evaluate/ Justify	To 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.
Examine	To look at, inspect or scrutinise carefully.
Explain	To provide a comprehensive answer that shows an understanding of the content/process mentioned. The answer
Express 1	should include: what it is, how it works, what it looks like, what it does, how it happens, why it happens and any
E-H	relevant reasons.
Follow	To be guided by instructions.
Give	To supply/provide without explanation.
Identify	This requires the learner to list and briefly 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 Level 4, 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	To put 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.
Inform	To give someone facts or information.
Кеер	To have or retain possession of something.
List	To produce a number of relevant items which apply to the question. Further description is not required.
Maintain	To enable something to continue. To keep something in good condition.
Make	To create, produce or form something.
Manage	After a development process ensure that the product/process works using relevant management techniques.
Minimise	To reduce something to the smallest possible amount or degree.
Monitor	To check if a process or activity is carried out correctly.
Notify	To inform someone of something in a formal or official manner.
Obtain	Acquire.
Organise	To arrange systematically. To coordinate activities. To make arrangements or preparations.
Outline	A description setting out main characteristics or points.
Plan	To consider, set out and communicate what needs to be done.
Prepare	To make ready for use or consideration. To create in advance.
Process	A systematic series of actions.
Produce	To create, manufacture or make something.
Promote	To support or actively encourage. To further progress.
Propose	To put forward an idea, plan or suggestion for consideration.
Provide	To make available or supply.
Recognise	To be aware of, familiar with and able to identify an activity or product.

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Recommend	To suggest or put something forward as being suitable for a particular purpose or role with reasons why.
Rectify	To correct or put right.
Refer	To pass the matter to the responsible person for a decision.
Reflect	To look back upon and appraise.
Report	To prepare a detailed account or statement about an event or topic.
Request	To formally ask for something.
Research	To investigate/study to establish facts and reach a conclusion.
Resolve	To settle or find a solution to a problem.
Respond	To react quickly or positively to something.
Review	To formally assess something with the intension of instituting change if required.
Secure	To obtain something e.g. commitment from colleagues.
Seek	To ask for something from someone.
Select	To carefully choose the most suitable option for a task/purpose.
Set up	To prepare a system or set of equipment for operation.
Specify	To state a fact or requirement clearly and precisely.
State	To express something definitely or clearly in speech or writing.
Suggest	To give possible alternatives, produce or put forward an idea/plan.
Summarise	To give a brief statement in your own words of the main points.
Take action/ measures/ steps	To do something to achieve an aim or deal with a problem.
Train	To teach a person a particular skill or type of behaviour through practice and instruction.
Undertake	To take part in or carry out an activity/task.
Use	To apply information or prior learning. To put into service or action. To employ for a given purpose.

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Plagiarism/Collusion Awareness for Learners

CIWM is committed to ensuring valid and authentic assessments for all learners. As an Awarding Organisation, we are responsible to government regulators to maintain the quality and consistency of the qualifications that we award, and that our network of Approved Centres, deliver.

CIWM, and each of its Centres, have clear, transparent, and robust procedures in place for dealing with plagiarism. This includes preventing, identifying, confirming, and reporting plagiarism, and penalising those who commit such acts of malpractice.

As a learner registered with CIWM, you must be aware of what your responsibilities are when completing assessments. This short notice is designed to provide the information you will need to make the right choices.

Before you submit any evidence/assessments for marking, you will be asked to sign a declaration to state that you have understood and followed these regulations. If there is anything that you do not understand, you must ask your assessor/tutor or another member of staff within your Centre.

The regulations define plagiarism as:

- The failure to properly acknowledge sources and/or,
- The paraphrasing of more than 50% of an assessment item and/or,
- The submission of another person's work as if it were the candidate's/learner's own

Essentially, this means that the work and ideas submitted for assessment must be your own, and that you must not copy from another learner or source or allow another one to copy from you. You must not collude with anyone else to obtain their assistance in completing an assessment.

During your qualification, you will have opportunities to undertake research to support you in answering assessment tasks. This research could be from a wide range of sources, in both printed texts, online and on TV. Using information from published sources in a good way to demonstrate your understanding of a subject area, and to demonstrate your ability to find and assimilate information. However, care must be taken when using materials – you must not copy it and claim it as your own.

For further information, please refer to CIWM's Plagiarism Awareness for Learners

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SECTION 1 – Mandatory Unit Group

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

Level: 4		
Learning Outcomes		
	afety legislation in the waste and resource man	
1.1. Explain the main legal requirements of health and safety legislation on waste and resource management facilities, in relation to: employers employees others	 Indicative Content Your answer should: Give 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 too). 	Learner Answer
1.2 Identify how to locate current health and safety information.	Your answer should establish how to locate current health and safety information. Please refer to both internal and external sources, stating the name of the source and website links.	
 1.3 Describe the main features and legal requirements for: fire risk assessments accident management plans CoSHH PUWER LOLER 	 For each of the bullet pointed items, your answer should: Identify the relevant legislation and describe the main features of this legislation, referring to any sections, regulation numbers or article numbers. Provide an explanation of the activities and processes that should be completed 	

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• DSEAR	on site to ensure compliance with these legal requirements.		
Learning Outcomes			
	sures and monitoring associated with a waste an		
Assessment Criteria	Indicative Content	Learner Answer	
2.1. Explain the difference between a	Your answer should explain the difference		
hazard and a risk.	between a hazard and a risk. You will need		
	to include:		
	Define a hazard.		
	Define a risk.		
2.2. Explain how to complete a risk	Your answer should identify the five steps to		
assessment.	risk assessment as detailed in the current		
	Health and Safety Executive guidance.		
	Your answer should include the activities and		
	processes that would be undertaken in each		
	of these five steps to complete a risk		
	assessment.		
2.3. Explain the difference between a formal	Your answer should clearly illustrate the		
and dynamic risk assessment.	difference between a 'formal' and		
,	'dynamic' risk assessment.		
2.4. Explain the hierarchy of 'control	Your answer should explain the principles		
measures'.	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	Your answer should describe the		
hazardous substances and their warning	characteristics of four hazardous substances.		
labels.	For each, your answer should include:		
	A brief description of the substance.		
	The substance's hazardous properties.		

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	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.	 Your answer should state: The different types of PPE required on site. When and how they must be used. How they must be maintained and stored. You may find it easier to display this information in a table. 	
2.7. Describe the main causes of accidents and incidents in the workplace.	Your answer should describe <u>five</u> hazards that cause accidents and incidents in the workplace, including the associated risks with <u>two</u> examples for each.	
2.8. Explain the control measures used in the workplace to mitigate the risk of harm.	For each of 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 invest	igation and reporting in the waste and resource	management industry
	igation and reporting in the waste and resource	
3. Understand the principles of accident invest Assessment Criteria 3.1 List the steps involved in an accident and incident investigation in line with current regulator guidance.	Igation and reporting in the waste and resource Indicative Content Your answer should list the four steps involved in an accident and incident investigation stating the current Health and Safety Executive guidance.	management industry Learner Answer
Assessment Criteria 3.1 List the steps involved in an accident and incident investigation in line with current	Indicative Content Your answer should list the <u>four</u> steps involved in an accident and incident investigation stating the current Health and Safety	
Assessment Criteria 3.1 List the steps involved in an accident and incident investigation in line with current regulator guidance. 3.2 Explain how to carry out an accident and incident investigation in line with current	Indicative Content Your answer should list the four steps involved in an accident and incident investigation stating the current Health and Safety Executive guidance. Your answer should: Provide an accident / incident scenario. Explain what you would do when you first arrive at the scene. Use the list in 3.1 to explain the process that would be undertaken to carry out an accident and incident investigation.	

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 4.1 Explain the steps required to appoint contractors on a waste management facility in line with current regulator guidance. 4.2 Describe the topics to be included in a site induction for a visitor to a waste and 	Your answer should explain the steps you should undertake for the appointment of contractors on a waste management facility stating the current Health and Safety Executive guidance. Your answer should describe four topics you would include in a site induction for a site visitor to a waste and resource management	
resource management facility.	facility.	
Learning Outcomes	racinity.	
5. Understand safe working practices to contro	ol the use of vehicles plant and equipment on site	e.
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: 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: • Maintenance • Operative training • Operating procedures You should use one named example of an item of plant or processing equipment in your answer. Your answer should explain the purpose of a	
management plan in relation to the safe operation of a waste management facility.	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 w Assessment Criteria	ork in a waste and resource management facilit Indicative Content	Learner Answer

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6.1 List the circumstances that may require	Your answer should list three examples of	
the issue of a permit to work.	when you may need to issue a permit to	
	work.	
6.2 Differentiate between the permit to work	Highlight three differences between the	
system and a normal risk assessment.	permit to work system and a risk assessment.	

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VRQ402: Environmental protection in the waste and resource management industry

Level: 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	Your answer should identify a minimum of		
permit that refer to managing emissions to	two rules within a specific environmental		
air, water and land.	permit that refer to managing emissions to		
	air, water and land.		
	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.		
1.2 Describe the systems for managing	Your answer should describe the systems you		
emissions to air, water and land in	would need to have in place to ensure that		
accordance with the identified permit rules.	you manage emissions in accordance with		
	the identified permit rules.		
1.3 Describe the purpose of a written	Your answer should describe the purpose of		
management system.	a written management system.		
1.4 Describe the content of a written	Your answer should describe the content of a		
management system according to	written management system. Your answer		
regulatory guidance.	must refer to regulatory guidance.		
1.5 Identify the possible environmental	Your answer should identify two examples of		
incidents that could be included in a written	possible environmental incidents that could		
management system.	be included in a written management		
	system.		

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1.6 Explain the proactive and reactive	Your answer should explain two proactive	
measures used to manage the risk posed by	and two reactive measures that you would	
possible environmental incidents.	have in place for one of the identified	
possible divilational inclacing.	possible environmental incidents referred to	
	in 1.5.	
1.7 Describe the reporting procedure for	Your answer should:	
1.7 Describe the reporting procedure for		
notifying the regulator of an environmental	Outline the reporting procedure for	
incident in accordance with the	notifying the regulator of an	
environmental permit.	environmental incident in accordance	
	with the environmental permit.	
	Refer to the timescales for reporting.	
	State what records must be kept.	
	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.	
Learning Outcome		
	impact of work activities and how this can be n	ninimised.
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe what is meant by the term	Provide a definition of environmental risk	
'environmental risk assessment.'	assessment.	
2.2 Describe the process of completing an	Your answer should identify and describe the	
environmental risk assessment in accordance	steps involved in an environmental risk	
with regulatory guidance.	assessment. Your answer must refer to	
	regulatory guidance and you may wish to	
	include examples to illustrate your points.	

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2.3 Describe the components of the	Your answer should describe the three	
'pollutant linkage' 2.4 Explain how to assess the impact of work activities and resource use in the environment.	components of the 'pollutant linkage.' Your answer should use a specific example to explain how to assess the impact of work activities AND the use of resources on the environment. Your answer must :	
	 Refer to how you would use risk analysis to determine the scale and potential impact. Refer to the steps in assessment criteria 2.2 	
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 and departments) available to help manage the environmental impact of work activities and resource use. The list should include two external and one internal source.	
Learning Outcome		
	uirements 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 purpose and regulatory requirements for fire prevention plans on sites that store combustible wastes.	
	Hint: you may want to refer to Standard Rule or Bespoke Permit clauses on fire prevention plans in your answer.	
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.	

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Your answer should explain <u>three</u> procedures an organisation could put in place to manage the risk of fire on a site.	
	Learner Answer
environmental impacts that may arise from that facility.	
Your answer should explain how the four	
impacts identified in 4.1 may affect the	
environment.	
Your answer should explain how the four	
impacts identified in 4.1 can be detected	
negative impact on the environment.	
Your answer should:	
 Identify a piece of processing plant or 	
equipment that you are familiar with.	
Describe three environmental risks which	
down.	
Your answer should describe an action that	
you would take for each of the risks identified	
1 .	
environment.	
Hint: you are taking action to reduce the	
, , <u> </u>	
	an organisation could put in place to manage the risk of fire on a site. d amenity impacts of waste and resource mana Indicative Content Your answer should identify a type of waste facility and list four potential or actual environmental impacts that may arise from that facility. Your answer should explain how the four impacts identified in 4.1 may affect the environment. Your answer should explain how the four impacts identified in 4.1 can be detected and managed to prevent or reduce their negative impact on the environment. Your answer should: Identify a piece of processing plant or equipment that you are familiar with. Describe three environmental risks which may occur because of this breaking down. 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

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(e.g. an improved maintenance schedule)	
will not answer the question.	

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VRQ403: Principles of sustainable waste and resource management

ainable waste and resource management.	
Indicative Content	Learner Answer
Provide a definition of sustainable waste	
to relevant UK legislative frameworks	
<u> </u>	
sustainable manner.	
	Learner Answer
•	
• •	
•	
· · · · · · · · · · · · · · · · · · ·	
' '	
	Indicative Content Provide a definition of sustainable waste management and where it is derived from, referring to relevant UK legislative frameworks Your answer should summarise three principles of sustainable waste management. You should describe two factors or issues that could prevent waste being managed in the most sustainable manner. and its application in sustainable waste and resource relative Content You should describe: What the waste hierarchy is.

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chemical, thermal and biological	in 2.3 relate to and give a brief explanation why	
treatment methods relate to.	that treatment method falls under that stage.	
2.5 Describe the environmental	Your answer should describe:	
impacts of diverting waste and	<u>Three</u> positive environmental impacts of	
resources away from landfill.	diverting waste and resources away from	
·	landfill.	
	One negative environmental impact of diverting	
	waste and resources away from landfill.	
Learning Outcome		
	rocedures of waste and resource transfer and treatmer	nt facilities
Assessment Criteria	Indicative Content	Learner Answer
3.1 Explain reasons for using a	Your answer should provide <u>two</u> reasons to explain	
waste transfer and treatment	why waste producers and waste operators may	
facility.	need to use a waste transfer and treatment facility.	
3.2 List different transport systems	List three different transport systems that can be	
that can be used for the delivery	used for the delivery of waste from the producer to	
of waste from the producer to a	a transfer and treatment facility.	
waste transfer and treatment		
facility.		
3.3 Explain why different transport	Using each of the transport delivery systems	
delivery systems would be	identified in 3.2, explain why that transportation	
suitable for different waste	system may be used for different types of waste.	
streams.	, , , , , , , , , , , , , , , , , , , ,	

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VRQ404: Legislation for the operation of a waste management facility

Level: 4		
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 including: Their different status in law How they are established, including the parties and processes involved	
1.2 Describe UK Acts of Parliament which directly affect waste management operations	 Your answer should: State a type of waste management facility. Identify two Acts of Parliament that are relevant to the operation of this facility. Provide a short description of the main features and the relevance of these Acts to the operation of this facility. Be relevant to the operation of a facility in the waste and resource management sector rather than the wider organisation. 	
1.3 Describe UK regulations that directly affect waste management operations	 Your answer should: State a type of waste management facility. Identify two UK regulations that are relevant to the operation of this facility. Provide a short description of the main features and the relevance of these Regulations to the operation of this facility. Ensure that the regulations you select are relevant to the operation of a facility in the waste and resource management sector rather than the wider organisation. 	
1.4 Explain the difference between civil and criminal liability in relation to	Your answer should explain the difference between civil and criminal liability using waste and resource management examples.	

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	<u> </u>	T T
operating a waste and resources		
management facility		
1.5 Explain how criminal penalties are	Your answer should:	
determined using current sentencing	Reference the latest sentencing guidelines by	
guidelines.	providing the full title of the guidance and	
	including a website link.	
	Explain how criminal penalties are determined	
	(referring to the twelve steps) using these.	
	Include reference to the culpability and harm	
	categories within the guidelines.	
Learning Outcome		
2. Understand the requirements of plant	ning legislation as applied to the waste and resource	management industry
Assessment Criteria	Indicative Content	Learner Answer
2.1 State the current planning	State the full title of <u>one</u> piece of planning	
legislation in relation to waste and	legislation related to waste and resources	
resources management facilities	facilities.	
2.2 Identify current planning guidance	Your answer should identify and briefly describe	
in relation to waste and resources	one current planning guidance document	
management facilities	relating to waste and resource management.	
2.3 Describe key documents that are	Your answer should identify and describe three of	
required as part of a new planning	the key documents required when making a new	
application or variation of an existing	planning application or variation of an existing	
planning permission for a waste and	planning permission for a waste and resource	
resources management facility	management facility.	
2.4 Explain how the planning system	Your answer should give two examples of ways in	
can influence the development of	which the planning system can impact	
waste treatment technologies	on/influence the development of specific waste	
	treatment technologies.	
	You may wish to identify case studies to support	
	your answer.	
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:	Describe each of the following in turn, including	
Waste Exemptions	their use, content, and legal requirements:	
'	, ·	

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Standard Rules Permits	Waste Exemptions	
Bespoke Permits	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 list three different types of permit variation, giving examples of when each one would be used.	
3.5 Explain the mechanism and information required to transfer an environmental permit	 Your answer should: Include an overview of what a transfer of permit means. Explain the method available to complete the transfer. Identify and explain three pieces of information that would be required as part of the transfer process. 	
3.6 Explain the mechanism and information required to surrender an environmental permit	 Your answer should: Include an overview of what a surrender of permit means. Explain the method available to surrender the permit. Identify and explain three pieces of information that would be required as part of the surrender process. 	
3.7 Identify the actions that could be taken by the environmental regulator in response to breaches of an environmental permit.	Your answer should identify two 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	Your answer should refer to a standard rules permit and explain the circumstances that allow	

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to surface water under a standard rules permit	the discharge of liquids to surface water within this permit.	
3.9 State the options available in order	Your answer should state two options for removing	
to remove contaminated liquids from	contaminated liquids from a permitted waste	
a permitted waste facility.	facility.	
Learning Outcome	,	
	es relevant to responsibilities within the waste and reso	ource management industry
Assessment Criteria	Indicative Content	Learner Answer
4.1 Explain the concept of producer	Your answer should explain what is meant by	
responsibility	producer responsibility and why it is in place.	
4.2 Identify sectors that are obligated	Your answer should list and briefly describe three	
under producer responsibility	separate sectors that have obligations under	
legislation	Producer Responsibility and the legislation	
	associated with each of these three sectors.	
4.3 Describe the requirements of the	Your answer should describe two requirements of	
producer responsibility legislation	producer responsibility legislation.	
4.4 State the legislation that imposes	State the full title of the legislation and the	
"Duty of Care" responsibilities for	relevant section.	
waste and resources management		
activities		
4.5 Describe the legal requirements of	Your answer should describe five legal	
Duty of Care legislation applicable to	requirements as part of the Duty of Care	
waste and resources management	applicable to waste and resource management.	
4.6 List the parties who have	List three parties who have responsibility under	
responsibilities under Duty of Care	Duty of Care.	
4.7 Explain why it is important to carry	Your answer should:	
out checks in accordance with the	Explain why duty of care checks are	
Duty of Care legislation prior to	important, referring to the legal requirements	
passing waste on.	in 4.5.	
	Consider the issues associated with failing to	
	complete these checks.	
4.8 State the current legislation that	State the full name of the legislation and the	
refers to carriers of controlled waste	relevant section.	
4.9 Distinguish between the tiers of	Your answer should explain the differences	
waste carriers, brokers and dealers	between the tiers of waste carriers, brokers and	
	dealers by:	
	Providing a definition of each.	

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	Providing a brief description of their roles.	
	Troviding a biler description of meir foles.	
	Hint: to distinguish you must look at the	
	characteristics of waste carriers, brokers and	
	dealers, and explain the differences.	
4.10 State the current regulations that	State the full title of one current, relevant	
address the collection, treatment,	regulation that addresses the collection,	
storage and disposal of catering and	treatment, storage and disposal of catering and	
food waste	food waste.	
4.11 Describe the current regulations	Your answer should describe the current	
that address the collection, treatment,	regulation (identified in 4.10) that addresses the	
storage and disposal of catering and	collection, treatment, storage and disposal of	
food waste	catering and food waste.	
4.12 Identify guidance documents	Your answer should identify two guidance	
that can be used to support the	documents (providing the website address for	
operation of waste and resource	each):	
management facilities		
	One piece of Waste or Environmental	
	Guidance	
	Once piece of health and safety guidance.	
	Please note: All guidance provided should be	
	from a UK regulator and relevant to a waste and	
	resource management facility.	
4.13 Explain how guidance	Your answer should explain how each of the	
documents can be used to support	guidance documents identified in 4.12 can assist	
the operation of waste and resource	in the operation of a wastes and resource	
management facilities	management facility.	
Learning Outcome		
5. Understand the regulatory framework	relevant to waste and resource management facilit	ries
Assessment Criteria	Indicative Content	Learner Answer
5.1 Explain how to establish an	Your answer should set out the sequence of steps	
European Waste Code (EWC) for	taken to establish the correct EWC code for	
wastes	wastes referring to the regulator guidance.	
5.2 Distinguish between absolute and	Your answer should:	
mirror entries in the European Waste	Provide a definition of absolute entries.	
Codes (EWC) list	Provide a definition of mirror entries are.	
, ,		1

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	Explain <u>two</u> differences between them.	
	Hint: to distinguish you must look at the characteristics of absolute and mirror entries and explain the differences.	
5.3 Complete a waste transfer note for a waste stream that is removed from a permitted waste facility	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.	
	Please note: you <u>must</u> use a waste transfer note template issued by the regulator.	
5.4 Explain why it is important to accurately describe waste on a waste transfer note	 Your answer should include: <u>Two</u> 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	 Your answer should list and briefly describe: 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	State the full, legal definition of hazardous waste. Your answer should reference the full title and section of the legislation.	
5.7 Complete a hazardous waste consignment note for a hazardous waste stream that is removed from a permitted waste facility	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 correctly completed in line with guidance and legislation.	
	Please note: you <u>must</u> use a hazardous consignment note template issued by the regulator. Only complete the first	

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	page PRODUCER'S/HOLDER'S/CONSIGNOR'S	
	COPY, parts A to E.	
5.8 Describe the process for	Your answer should describe the process in your	
completion of a hazardous waste	own words. Your answer should include:	
consignment note	How to complete the five sections of the	
	consignment note.	
	What information is checked on the note and	
	why.	
	Who must complete each section.	
	Who must check each section during the	
	transfer process.	
5.9 Explain why it is important to check	Your answer should:	
the information on a hazardous waste	Explain why it is important to check the	
consignment note prior to accepting	information on a hazardous waste	
a waste load.	consignment note prior to accepting a waste	
	load.	
	Consider the consequences associated with	
5.10 Chala Hannau Hanisa Kana Hankara	failing to carry out these checks.	
5.10 State the authorisations that may	State <u>two</u> authorisations that may be required, and from whom these are obtained.	
be required for the carriage of hazardous waste	and from whom these are obtained.	
Learning Outcome		
	cation of waste and the use of waste acceptance pr	rocedures in the waste and resources industry
Assessment Criteria	Indicative Content	Learner Answer
6.1 State the legal definition of	Your answer should define 'controlled waste' in	Learner Answer
controlled waste	legal terms. In your definition, you will need to	
Cormoned Wasie	include references to Acts or Regulation.	
6.2 Describe the classifications of	Your answer should describe three waste	
controlled waste	classifications, giving two examples for each class.	
6.3 State the legislation which	State the full title of two relevant Acts or	
mandates the requirement for an	regulations and the appropriate sections which	
environmental permit	mandate the requirement for an environmental	
·	permit.	
6.4 Describe the principles of quality	Your answer should describe two principles of	
protocols	quality protocols.	
6.5 Identify examples of quality waste	Your answer should list and briefly describe <u>two</u>	
protocols	quality protocols, providing their full titles	

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6.6 State the UK regulations which	State the full title of the relevant UK regulation
detail the three steps of the landfill	and the appropriate sections.
waste acceptance procedures	
6.7 Describe the requirements within	Your answer should describe requirements for
the three steps of the UK landfill waste	each of the three steps for waste acceptance at
acceptance procedures	a landfill site.

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

Level: 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	Your answer should list <u>two</u> internal and <u>three</u> (UK)			
Stakeholders that can have an interest	external stakeholders that can have an interest in			
in the operation of a permitted waste	the operation of a permitted waste facility.			
facility.				
	Please note: to avoid repetition, your answer			
	should not use members of the local community			
	as an example stakeholder.			
1.2 Describe how stakeholders can	You should base your answer on the stakeholders			
have an impact on the way a	that you identified in 1.1 above and tailor it to a			
permitted waste facility is operated.	permitted facility.			
1.3 Describe how communication and	Give <u>two</u> benefits to the waste facility of			
consultation can benefit a permitted	communicating and consulting with the local			
waste facility's relationship with the	community.			
local community.	Your answer should include <u>two</u> ways that the site			
	can communicate and consult with the local			
	community.			
1.4 Describe how effective	Your answer should describe two examples of			
communication and consultation can	how effective communication and consultation			
improve relations within the workplace.	with employees at all levels of the business can			
	improve working relationships.			
1.5 Describe methods of	Using the stakeholders you identified in 1.1, your			
communication used for different	answer should describe <u>two</u> methods of			
stakeholder groups.	communication that could be used to			

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	T	
	communicate with each of these groups in an	
	effective way. Your answer should refer to factors	
	such as when they would be used and the	
	content.	
	Please note: to avoid repetition, your answer	
	should not use members of the local community	
	as an example stakeholder.	
Learning Outcome		
	working with the wastes and resources managemen	t e e e e e e e e e e e e e e e e e e e
Assessment Criteria	Indicative Content	Learner Answer
2.1 List the regulators who enforce	Your answer should list three regulators who	
regulations relevant to operating a	enforce regulations for permitted waste	
permitted waste and resources	management facilities.	
management facility.		
2.2 Explain the roles of regulators in	Your answer should explain the roles of the	
enforcing permitted waste and	regulators identified in 2.1 with specific reference	
resource management facilities.	to waste management facilities.	
2.3 Describe the powers of entry for	Your answer should describe the powers of entry	
regulators of permitted waste and	for each regulator that you identified in 2.1. Your	
resource management facilities.	answer must describe:	
	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	Your answer should describe one enforcement	
which can be taken by regulators of	option for <u>each</u> regulator identified in 2.1. Your	
permitted waste and resource	answer must describe:	
management facilities.	When the enforcement option for each	
	regulator may/may not be used.	
	Any timescales involved.	

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data.

4.4 Identify recipients of data and

reporting mechanisms.

	Any responses available to the recipient e.g.	
	right to appeal.	
Learning Outcome		
	s affect changes in wastes and resource managem	
Assessment Criteria	Indicative Content	Learner Answer
3.1 Identify non-legislative factors	Your answer should identify three non-legislative	
which may affect waste and resources	factors which may affect how waste and	
management practices.	resource management practices change over time.	
3.2 Evaluate how non-legislative factors may influence how waste and resources are managed in the future.	Your answer should evaluate how each of the non-legislative factors identified in 3.1 may influence the management of waste and resources in the future.	
	You should refer to the possible impacts on the UK waste and resources industry AND the influence these could have at a site level. Consider the possible outcomes with reasons to justify your answer.	
Learning Outcome		
facility.	r data collection, reporting, storage and retention ir	relation to a waste and resources management
Assessment Criteria	Indicative Content	Learner Answer
4.1 List the types of data that are	Your answer should list five types of data that are	
collected as specified within a permit.	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	Use the list of data in 4.1 and state storage	
in line with current guidance.	periods for each referring to the document or	
	guidance that stipulates the storage periods.	
4.3 Explain the methods of storing	Your answer should describe how data is stored	

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Your answer should choose **two** of the data sets

for the items listed in 4.1.

from 4.1 and describe:



	The intended recipients of the data.	
	How the data will be reported/submitted.	
4.5 Describe factors that could	Describe three factors that could have a	
negatively effect the collection,	negative effect on the collection, reporting and	
reporting or storage of data in line with	storage of data in line with permit requirements.	
permit requirements.		
4.6 Describe the consequences of not	Describe three consequences of failure to	
collecting, reporting or storing data in	collect, report and store data in line with permit	
line with permit requirements.	requirements.	
Learning Outcome		
5. Understand the skills and training requ	irements for waste operations.	
Assessment Criteria	Indicative Content	Learner Answer
5.1 List the skills required to manage waste operations.	List <u>five</u> managerial skills required for managers of waste operations.	
	Hint: Skills are defined as the knowledge, competencies and abilities to perform a task.	
5.2 Describe how to ensure that	Your answer should describe:	
relevant staff have the required skills	The checks on staff skills and training carried	
and training.	out.	
	The actions that could be taken to address The actions that the action that the acti	
	deficiencies.The records that must be kept.	
5.3 Describe how to communicate the	Your answer should describe how to	
programme of work and operational	communicate a programme or work and	
instructions to all site personnel both	operational instructions to all site personnel	
verbally and in writing.	verbally and in writing.	
5.4 Explain why it is important to ensure	Your answer should explain:	
that staff understand instructions, and	Why it is important to ensure that staff	
how to ensure this is achieved.	understand instructions.	
	How to ensure that staff understand	
	instructions.	



SECTION 2 – Optional Unit Group



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

Level: 4			
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	Your answer should describe the		
reception at a physical treatment facility	organisational procedures for waste		
	reception at a physical treatment facility,		
	including the basic infrastructure and		
	equipment needed.		
1.2 List the waste reception records kept at a	Your answer should list three records that you		
physical treatment facility	keep relating to waste reception at a		
	physical treatment facility.		
1.3 Describe the procedures for the rejection	Your answer should describe the procedures		
of waste from a physical treatment facility	for the rejection of waste from a physical		
	treatment facility, including storage and time		
	scales that may be involved.		
Learning Outcome			
	ent at a waste and resources treatment facility		
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe the physical treatment methods	Your answer should describe three physical		
and the principles upon which they are	treatment methods and the principles upon		
based	which they are based.		
2.2 Identify the waste types that can be	Your answer should identify <u>two</u> wastes types		
treated using physical treatment methods	that can be treated by each of the physical		
	treatment methods identified in 2.1.		
2.3 Describe how different waste types can	Your answer should describe how the waste		
impact physical treatment methods	types identified in 2.2 can impact on the		
	treatment methods identified in 2.1.		



Learning Outcome			
	sidual wastes are associated with physical treatr	ment methods and how these can be	
managed			
Assessment Criteria	Indicative Content	Learner Answer	
3.1 List the emissions from physical treatment	Your answer should list three emissions from		
methods	the physical treatment methods identified in		
	2.1.		
3.2 List the products from physical treatment	Your answer should list two products from the		
methods	physical treatment methods identified in 2.1.		
3.3 Explain how emissions can be controlled	Your answer should explain how the		
and managed	emissions identified in 3.1 can be controlled		
	and managed.		
3.4 Describe the end uses of the products	Your answer should describe one end use of		
from physical treatment methods	the two products identified in 3.2.		
3.5 Explain how residual waste from physical	Your answer should explain how residual		
treatment methods can be controlled and	waste from physical treatment methods can		
managed	be controlled and managed.		
Learning Outcome			
	nental benefits and problems associated with ph		
Assessment Criteria	Indicative Content	Learner Answer	
4.1 Explain the technical benefits of physical	Your answer should explain <u>two</u> technical		
treatment methods	benefits of the physical treatment methods		
	identified in 2.1.		
4.2 Explain the environmental benefits of	Your answer should explain <u>one</u>		
physical treatment methods	environmental benefit of the physical		
	treatment methods identified in 2.1.		
4.3 Describe the problems associated with	Your answer should describe <u>two</u> problems		
physical treatment methods	associated with each of the physical		
	treatment methods identified in 2.1.		
4.4 Explain how problems can be controlled	Your answer should explain how the		
and managed	problems identified in 4.3 can be controlled		
	and managed.		

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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 up	take of physical treatment methods	
Assessment Criteria	Indicative Content	Learner Answer
5.1 List factors that may limit the use of	Your answer should list three factors that may	
physical treatment methods	limit the use of physical treatment methods.	
5.2 Explain why certain factors may affect	Your answer should explain why certain	
the use of physical treatment methods	factors may affect the use of physical	
	treatment methods.	



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

Level: 4			
Learning Outcome			
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	Your answer should describe the		
reception at a biological waste treatment	organisational procedures for waste		
facility	reception at a biological waste treatment		
	facility, including the basic infrastructure and		
	equipment needed.		
1.2 List the records that are kept at a	Your answer should list three records that you		
biological waste treatment facility	keep relating to biological treatment.		
1.3 Describe the procedures for rejection of	Your answer should describe the procedures		
waste from a biological waste treatment	for rejection of waste from a biological waste		
facility	treatment facility.		
Learning Outcome			
2. Understand the principles of open windrow of	composting as a biological treatment process		
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe open windrow composting and	Your answer should describe the open		
the principles upon which it is based	windrow composting treatment method and		
	the principles upon which it is based.		
2.2 Describe the quality protocol associated	Your answer should describe the quality		
with open windrow composting	protocol that applies to open windrow		
	composting.		
2.3 List waste types that can be treated by	Your answer should list <u>two</u> examples of		
open windrow composting	waste types that can be treated by open		
	windrow composting.		



2.4 Describe how waste types can impact on	Your answer should describe how one of the	
open windrow composting	waste types identified in 2.3 can impact on	
	open windrow composting.	
2.5 List waste types that should not be	Your answer should list one example of a	
treated by open windrow composting	waste type that should <u>not</u> be treated by	
	open windrow composting.	
2.6 Explain why certain waste types should	Your answer should explain why the waste	
not be treated by open windrow composting	type identified in 2.5 should not be treated	
	by open windrow composting.	
2.7 Describe the limitations of open windrow	Your answer should describe three limitations	
composting	of open windrow composting.	
Learning Outcome		
3. Understand the principles of in-vessel compo	osting as a biological treatment process	
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe in-vessel composting and the	Your answer should describe the in-vessel	
principles upon which it is based	composting treatment method and the	
	principles upon which it is based.	
3.2 Describe the quality protocol associated	Your answer should describe the quality	
with in-vessel composting	protocol that applies to in-vessel composting.	
3.3 List waste types that can be treated by in-		
, ,	Your answer should list two examples of	
vessel composting	Your answer should list <u>two</u> examples of waste types that can be treated by in-vessel	
vessel composting	·	
, ,	waste types that can be treated by in-vessel	
vessel composting	waste types that can be treated by in-vessel composting.	
vessel composting 3.4 Describe how waste types can impact on in-vessel composting	waste types that can be treated by in-vessel composting. Your answer should describe how <u>one</u> of the examples identified in 3.3 can impact invessel composting.	
vessel composting 3.4 Describe how waste types can impact on	waste types that can be treated by in-vessel composting. Your answer should describe how one of the examples identified in 3.3 can impact in-	
vessel composting 3.4 Describe how waste types can impact on in-vessel composting	waste types that can be treated by in-vessel composting. Your answer should describe how <u>one</u> of the examples identified in 3.3 can impact invessel composting.	
vessel composting 3.4 Describe how waste types can impact on in-vessel composting 3.5 Describe the limitations of in-vessel composting Learning Outcome	waste types that can be treated by in-vessel composting. Your answer should describe how <u>one</u> of the examples identified in 3.3 can impact invessel composting. Your answer should describe <u>three</u> limitations of in-vessel composting.	
vessel composting 3.4 Describe how waste types can impact on in-vessel composting 3.5 Describe the limitations of in-vessel composting	waste types that can be treated by in-vessel composting. Your answer should describe how <u>one</u> of the examples identified in 3.3 can impact invessel composting. Your answer should describe <u>three</u> limitations of in-vessel composting.	



4.1 Describe anaerobic digestion and the	Your answer should describe the anaerobic	
principles upon which it is based	digestion treatment method and the	
	principles upon which it is based.	
4.2 Describe the quality protocol associated	Your answer should describe the quality	
with anaerobic digestion	protocol that applies to anaerobic digestion.	
4.3 List waste types that can be treated by	Your answer should list two examples of	
anaerobic digestion	waste types that can be treated by	
	anaerobic digestion.	
4.4 Describe how waste types can impact on	Your answer should describe how one of the	
anaerobic digestion	waste types identified in 4.3 can impact on	
	anaerobic digestion.	
4.5 Describe the limitations of anaerobic	Your answer should describe three limitations	
digestion	of anaerobic digestion.	
Learning Outcome		
	ental benefits and problems associated with bio	
Assessment Criteria	Indicative Content	Learner Answer
5.1 Explain why it is beneficial to implement	Your answer should identify and explain <u>two</u>	
	Your answer should identify and explain two benefits of implementing quality protocols for	
5.1 Explain why it is beneficial to implement quality protocols for biological treatment	Your answer should identify and explain <u>two</u>	
5.1 Explain why it is beneficial to implement	Your answer should identify and explain two benefits of implementing quality protocols for	
5.1 Explain why it is beneficial to implement quality protocols for biological treatment	Your answer should identify and explain <u>two</u> benefits of implementing quality protocols for biological treatment.	
5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process,	
5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process,	
5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes.	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit.	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process,	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits associated with biological treatment 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process, identify and explain one environmental	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits associated with biological treatment processes. 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process, identify and explain one environmental benefit.	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits associated with biological treatment processes. 5.4 Describe the potential problems associated with biological treatment processes. 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process, identify and explain one environmental benefit. For each of the biological treatment processes, describe a potential problem that could occur.	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits associated with biological treatment processes. 5.4 Describe the potential problems associated with biological treatment 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process, identify and explain one environmental benefit. For each of the biological treatment processes, describe a potential problem that	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits associated with biological treatment processes. 5.4 Describe the potential problems associated with biological treatment processes. 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process, identify and explain one environmental benefit. For each of the biological treatment processes, describe a potential problem that could occur.	
 5.1 Explain why it is beneficial to implement quality protocols for biological treatment 5.2 Describe the technical benefits associated with biological treatment processes. 5.3 Describe the environmental benefits associated with biological treatment processes. 5.4 Describe the potential problems associated with biological treatment processes. 5.5 Explain how potential problems can be 	Your answer should identify and explain two benefits of implementing quality protocols for biological treatment. For one type of biological treatment process, describe one technical benefit. For one type of biological treatment process, identify and explain one environmental benefit. For each of the biological treatment processes, describe a potential problem that could occur. Your answer should explain how each of the	



6. Understand what emissions, products and residual wastes are associated with biological treatment processes and how these can be managed

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



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

Level: 4			
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	Your answer should describe three thermal		
and the principles upon which they are	treatment methods and the principles upon		
based	which they are based.		
1.2 Identify the waste types that can be	Your answer should identify <u>two</u> waste types		
treated using thermal treatment methods	that can be treated by each of the thermal		
	treatment methods identified in 1.1.		
1.3 Describe how different waste types can	Your answer should describe how the waste		
impact thermal treatment methods	types identified in 1.2 can impact on the		
	treatment methods identified in 1.1.		
1.4 Explain the limitations of thermal	Your answer should explain one limitation for		
treatment methods	each of the thermal treatment methods		
	identified in 1.1.		
Learning Outcome			
2. Understand how waste is received or rejecte			
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe the procedures for waste	Your answer should describe the		
reception at a thermal treatment facility	organisational procedures for waste		
	reception at a thermal treatment facility,		
	including the basic infrastructure and		
	equipment needed.		
2.2 List the waste reception records kept at a	Your answer should list three records that you		
thermal treatment facility	keep relating to waste reception at a		
	thermal treatment facility.		



2.3 Describe the procedures for the rejection	Your answer should describe the procedures	
of waste from a thermal treatment facility	for the rejection of waste from a thermal	
,	treatment facility.	
Learning Outcome		
	sidual wastes are associated with thermal treatn	nent methods and how these can be
managed		
Assessment Criteria	Indicative Content	Learner Answer
3.1 List the emissions from thermal treatment	Your answer should list three emissions from	
methods	the thermal treatment methods identified in 1.1.	
3.2 List the products from thermal treatment	Your answer should list two products from the	
methods	thermal treatment methods identified in 1.1.	
3.3 Explain how emissions can be controlled	Your answer should explain how the	
and managed	emissions identified in 3.1 can be controlled	
Ŭ	and managed.	
3.4 Describe the end uses of the products	Your answer should describe one end use of	
from thermal treatment methods	the two products identified in 3.2.	
3.5 Explain how residual waste from thermal	Your answer should explain how residual	
treatment methods can be controlled and	waste from thermal treatment methods can	
managed	be controlled and managed.	
Learning Outcome		
	nental benefits and problems associated with the	
Assessment Criteria	Indicative Content	Learner Answer
4.1 Explain the technical benefits of thermal	Your answer should explain <u>two</u> technical	
treatment methods	benefits of the thermal treatment methods	
	identified in 1.1.	
4.2 Explain the environmental benefits of	Your answer should explain one	
thermal treatment methods	environmental benefit of the thermal	
	treatment methods identified in 1.1.	
4.3 Describe the problems associated with	Your answer should describe <u>two</u> problems	
thermal treatment methods	associated with each of the thermal	
	treatment methods identified in 1.1.	



4.4 Explain how problems can be controlled	Your answer should explain how the	
and managed	problems identified in 4.3 can be controlled	
	and managed.	
4.5 Explain why it is important to ensure	Your answer should explain <u>three</u> reasons	
compliance with an environmental permit for	why it is important to ensure compliance with	
a thermal treatment facility	an environmental permit for a thermal	
	treatment facility.	



VRQ409: Principles and practices of managing land remediation activities

Level: 4			
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	Your answer should give three reasons why		
remediated.	land may need to be remediated.		
1.2 Explain the role of the following in land	Your answer should explain the role of the		
remediation:	three activities listed.		
The desk study.			
The site investigation.			
The conceptual model.			
1.3 Describe the methods used to investigate	Your answer should give three examples of		
contaminated land.	the methods used to investigate		
	contaminated land.		
1.4 Describe the purpose of a risk assessment	Your answer should describe the purpose of		
in relation to contaminated land.	a risk assessment in relation to contaminated		
	land.		
Learning Outcome			
2. Understand the legislative requirements for lo			
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe the legislative requirements,	Your answer should:		
regulations, codes of practice and guidance	Identify <u>three</u> pieces of legislation relating		
applicable to land remediation activities.	to land contamination.		
	Describe <u>two</u> of the identified pieces of		
	legislation in relation to managing a land		
	remediation activity.		
	Identify <u>three</u> sources of information and		
	guidance relating to land remediation		
	practices.		



2.2 Describe the planning permission, permit	Your answer should describe the planning	
requirements, deployment form and	permission, permit requirements, deployment	
environmental management system (EMS)	form and environmental management	
required for land remediation activities.	system (EMS) required for land remediation	
	activities.	
Learning Outcome		
	t conditions in forming the framework for land re	mediation activities
Assessment Criteria	Indicative Content	Learner Answer
3.1 Identify the environmental permit	Your answer should identify four conditions	
conditions that relate to the environmental	relating to environmental risks within the	
risks posed by land remediation activities.	standard rules permit for remediation of	
	contaminated land.	
3.2 Describe the points of interaction	Your answer should describe four points of	
between an environmental permit and a	interaction between the environmental	
deployment form.	permit and the deployment form.	
Learning Outcome		
4. Understand the definition of waste relating t		
Assessment Criteria	Indicative Content	Learner Answer
4.1 Define waste in relation to land	Your answer should provide the legal	
remediation activities.	definition of waste in relation to land	
	remediation activities.	
1 4 6 5 11 11 11 11 11 11 11		
4.2 Describe the circumstances in which soils	Your answer should describe <u>two</u>	
4.2 Describe the circumstances in which soils are considered to:	Your answer should describe <u>two</u> circumstances in which soils may be	
are considered to:	circumstances in which soils may be	
are considered to: • Be non-waste.	circumstances in which soils may be considered to be non-waste or have ceased	
 are considered to: Be non-waste. Have ceased to be waste after treatment. Learning Outcome	circumstances in which soils may be considered to be non-waste or have ceased to be waste after treatment.	
 are considered to: Be non-waste. Have ceased to be waste after treatment. Learning Outcome 5. Understand the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the principles employed employed in the state of the principles employed emp	circumstances in which soils may be considered to be non-waste or have ceased to be waste after treatment. election and use of different techniques for reme	
 are considered to: Be non-waste. Have ceased to be waste after treatment. Learning Outcome 5. Understand the principles employed in the same Assessment Criteria	circumstances in which soils may be considered to be non-waste or have ceased to be waste after treatment. election and use of different techniques for remaining the content indicative Content	ediation of land affected by contamination Learner Answer
 are considered to: Be non-waste. Have ceased to be waste after treatment. Learning Outcome 5. Understand the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the constant of the principles employed in the state of the principles employed employed in the state of the principles employed emp	circumstances in which soils may be considered to be non-waste or have ceased to be waste after treatment. election and use of different techniques for remainded to be content. Your answer should explain the role of the	
 are considered to: Be non-waste. Have ceased to be waste after treatment. Learning Outcome 5. Understand the principles employed in the same Assessment Criteria	circumstances in which soils may be considered to be non-waste or have ceased to be waste after treatment. election and use of different techniques for remaining the content indicative Content	

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The implementation plan.		
The verification plan.		
The monitoring and maintenance plan.		
5.2 Describe the key features of:	Your answer should describe two elements	
A verification plan.	from:	
A monitoring and maintenance plan.	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	Your answer should give one example of an	
that may be employed under an	in-situ remediation technique that may be	
environmental permit.	employed under an environmental permit.	
5.5 Describe the ex-situ remediation	Your answer should give <u>two</u> examples of ex-	
techniques that may be employed under an	situ remediation techniques that may be	
environmental permit.	employed under an environmental permit.	
5.6 Describe the remediation strategy for a	For a site of your choosing, describe the	
specific site.	remediation strategy ensuring your answer	
	includes:	
	• <u>Two</u> examples of remediation techniques.	
	One reason why each of the	
	remediation.	
	Techniques have been chosen.	
Learning Outcome		
6. Understand the environmental impacts asso		
Assessment Criteria	Indicative Content	Learner Answer
6.1 Describe the environmental impacts	Your answer should:	
associated with in-situ and ex-situ	Describe <u>two</u> potential environmental	
remediation techniques.	impacts of <u>one</u> in-situ remediation	
	technique.	
	Describe <u>two</u> potential environmental	
	impacts of <u>two</u> ex-situ remediation	
	techniques.	



6.2 Describe the control measures to reduce	Your answer should describe <u>two</u> control	
or eliminate risks to the environment.	measures for each example identified in 6.1.	



VRQ410: Principles and practices of managing an inert landfill

Level: 4		
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,	Your answer should describe the legislative	
regulations, codes of practice and guidance	requirements, regulations, codes of practice	
applicable to an inert landfill.	and guidance applicable to an inert landfill.	
1.2 List the criteria that should be met when	Your answer should list three criteria that	
undertaking a site investigation for the	should be met when undertaking a site	
development of an inert landfill.	investigation for the development of an inert	
	landfill.	
1.3 Explain why it is important to meet the	For two of the criteria identified in 2.1, explain	
criteria for an inert landfill site investigation.	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	Your answer should identify five key	
Environmental Risk Assessment for an inert	requirements of an environmental risk	
landfill.	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	Your answer should describe two engineering	
placement and integrity of the geological	requirements for the development of a	
barrier and its protection from the initial layer	geological barrier at an inert landfill site.	
of inert waste.		



1.6 Describe the site procedures required for	Your answer should describe the site	
the management control of cell preparation	procedures managing cell preparation	
operations.	operations.	
1.7 Describe the control and management	Your answer should describe the surface	
systems needed for surface water drainage.	water drainage control and management	
	systems needed for an inert landfill.	
1.8 Explain why it is important to monitor the	Your answer should:	
site hydrogeological conditions.	Identify the importance of monitoring site	
	hydrogeological conditions using a	
	hydrogeological risk assessment.	
	Identify the consequences of failing to The price of the pri	
	monitor the site hydrogeological conditions.	
1.0 Describes the programme and a suite reservite		
1.9 Describe the permit requirements relevant to hydrogeological conditions.	Your answer should describe the permit requirements relevant to hydrogeological	
relevant to tryarogeological contamoris.	conditions.	
Learning Outcomes		
2. Understand the definition and types of inert		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Define inert waste in relation to landfill	Your answer should:	
2.1 Deline inen wasie intelation to landill	Tour answer should.	
activities.	Provide a legal definition of inert waste in	
	Provide a legal definition of inert waste in	
activities. Learning Outcomes	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. 	
Learning Outcomes 3. Understand waste treatment and testing red	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. 	
Learning Outcomes 3. Understand waste treatment and testing red Assessment Criteria	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. quirements Indicative Content	Learner Answer
Learning Outcomes 3. Understand waste treatment and testing reconstructions Assessment Criteria 3.1 Describe the legislative requirements,	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. quirements Indicative Content Your answer should describe the legislative 	Learner Answer
Learning Outcomes 3. Understand waste treatment and testing reconstructions and testing reconstructions are supported by the legislative requirements, codes of practice and guidance applicable.	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. Quirements Indicative Content Your answer should describe the legislative requirements, codes of practice and 	Learner Answer
Learning Outcomes 3. Understand waste treatment and testing reconstructions Assessment Criteria 3.1 Describe the legislative requirements, codes of practice and guidance applicable to the reception of inert waste at an inert	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. Quirements Indicative Content Your answer should describe the legislative requirements, codes of practice and guidance applicable to the reception of 	Learner Answer
Learning Outcomes 3. Understand waste treatment and testing reconstructions and testing reconstructions are supported by the legislative requirements, codes of practice and guidance applicable.	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. Quirements Indicative Content Your answer should describe the legislative requirements, codes of practice and 	Learner Answer
Learning Outcomes 3. Understand waste treatment and testing reconstructions 3.1 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	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. Quirements Indicative Content Your answer should 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 regulatory 	Learner Answer
Learning Outcomes 3. Understand waste treatment and testing red Assessment Criteria 3.1 Describe the legislative requirements, codes of practice and guidance applicable to the reception of inert waste at an inert landfill.	 Provide a legal definition of inert waste in relation to landfill activities. List <u>three</u> examples of inert waste. Quirements Indicative Content Your answer should describe the legislative requirements, codes of practice and guidance applicable to the reception of inert waste at an inert landfill. 	Learner Answer



3.3 Describe the waste inspection,	Your answer should:	
identification procedures and handling	Describe the pre-acceptance	
requirements for the types of inert waste	requirements for an inert landfill.	
received on site.	Distinguish between the testing regimes	
	for inert wastes:	
	- Regularly generated by the same	
	process	
	- Not regularly generated	
3.4 Describe the uses, purposes and	Your answer should describe the uses.	
processing requirements for documents	purposes and processing requirements for	
relating to the reception and validation of	two documents relating to the reception and	
inert waste received on the site.	validation of inert waste received on the site.	
3.5 Describe the records required by	Your answer should describe the records	
legislation and by organisational procedures	required by legislation and organisational	
relating to the reception, inspection and	procedures relating to the reception,	
validation of inert wastes.	inspection and validation of inert wastes.	
	·	
Learning Outcomes		
Learning Outcomes 4. Understand the environmental and amenity	impacts associated with inert landfill and how th	ney can be managed
	impacts associated with inert landfill and how the Indicative Content	ney can be managed Learner Answer
4. Understand the environmental and amenity		
4. Understand the environmental and amenity Assessment Criteria	Indicative Content	
4. Understand the environmental and amenityAssessment Criteria4.1 Describe the processes on an inert landfill	Indicative Content Your answer should describe the processes	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: 	Your answer should describe the processes on an inert landfill that could impact:	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment 	Indicative Content Your answer should describe the processes on an inert landfill that could impact: • The environment	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment Amenities 	Indicative Content Your answer should describe the processes on an inert landfill that could impact: The environment Amenities	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment Amenities 4.2 Explain how these processes are 	Your answer should describe the processes on an inert landfill that could impact: The environment Amenities Your answer should outline two actions that	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment Amenities 4.2 Explain how these processes are monitored to minimise the impact of an inert 	Your answer should describe the processes on an inert landfill that could impact: The environment Amenities Your answer should outline two actions that should be implemented to monitor the	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment Amenities 4.2 Explain how these processes are monitored to minimise the impact of an inert 	Indicative Content Your answer should describe the processes on an inert landfill that could impact: The environment Amenities Your answer should outline two actions that should be implemented to monitor the environmental and amenity impacts of an	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment Amenities 4.2 Explain how these processes are monitored to minimise the impact of an inert landfill on the environment and amenities 	Indicative Content Your answer should describe the processes on an inert landfill that could impact: The environment Amenities Your answer should outline two actions that should be implemented to monitor the environmental and amenity impacts of an inert landfill.	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: 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 describe the processes on an inert landfill that could impact: The environment Amenities Your answer should outline two actions that should be implemented to monitor the environmental and amenity impacts of an inert landfill. Your answer should list three potential	
 4. Understand the environmental and amenity Assessment Criteria 4.1 Describe the processes on an inert landfill that could impact: The environment Amenities 4.2 Explain how these processes are monitored to minimise the impact of an inert landfill on the environment and amenities 4.3 List the emissions from an inert landfill 	Your answer should describe the processes on an inert landfill that could impact: • The environment • Amenities Your answer should outline two actions that should be implemented to monitor the environmental and amenity impacts of an inert landfill. Your answer should list three potential emissions from inert landfills.	



4.5 Describe the methods of controlling and	Your answer should describe two methods of	
managing the impacts from inert landfill	controlling and managing the impacts from	
emissions	the inert landfill emissions listed in 4.3.	
Learning Outcomes		
5. Understand site closure, aftercare and perm	it surrender requirements	
Assessment Criteria	Indicative Content	Learner Answer
5.1 Describe the legislative requirements,	Your answer should describe the legislative	
regulations, codes of practice and guidance	requirements, codes of practice and	
applicable to restoring and preparing landfill	guidance applicable to restoring and	
sites for aftercare.	preparing landfill sites for aftercare.	
5.2 Explain why it is important to develop a	Your answer should explain why it is	
restoration and aftercare scheme for an inert	important to develop a restoration and	
landfill.	aftercare scheme for an inert landfill.	
5.3 Describe the records required in relation	Your answer should describe three records	
to the closure and aftercare of landfill sites.	required by the regulator for the closure and aftercare of landfill sites.	
5.4 Describe the methods used to deal with	Your answer should describe <u>two</u> methods	
birds, vermin, insects, dust, noise and litter	used to deal with birds, vermin, insects, dust,	
during restoration and aftercare operations.	noise and litter during restoration and	
	aftercare operations.	
5.5 Describe the process of surrendering an	Your answer should describe the process of	
environmental permit for an inert landfill.	surrendering an inert landfill permit; including	
	two actions or criteria that need to be	
	satisfied as part of the process.	



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

Level: 4			
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	Your answer should describe the		
reception at a mechanical biological	organisational procedures for waste		
treatment facility	reception at a mechanical biological		
	treatment facility, including the basic		
	infrastructure and equipment needed.		
1.2 List the waste reception records kept at a	Your answer should list three records that you		
mechanical biological treatment facility	keep relating to waste reception at a		
	mechanical biological treatment facility.		
1.3 Describe the procedures for the rejection	Your answer should describe the procedures		
of waste from a mechanical biological	for the rejection of waste from a mechanical		
treatment facility	biological treatment facility.		
Learning Outcome			
	plogical treatment at a waste and resources trec		
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe the mechanical biological	Your answer should describe the mechanical		
treatment methods and the principles upon	biological treatment methods and the		
which they are based	principles upon which they are based.		
2.2 Identify the waste types that can be	Your answer should identify <u>two</u> wastes types		
treated using mechanical biological	that can be treated by each of the		
treatment methods	mechanical biological treatment methods		
	identified in 2.1.		
2.3 Describe how different waste types can	Your answer should describe how the waste		
impact mechanical biological treatment	types identified in 2.2 can impact on the		
methods	treatment methods identified in 2.1.		



2.4 Explain the limitations of mechanical	Your answer should explain three limitations	
biological treatment methods	for each of the mechanical biological	
	treatment methods identified in 2.1.	
Learning Outcome		
	nental benefits and problems associated with m	nechanical biological treatment methods
Assessment Criteria	Indicative Content	Learner Answer
3.1 Explain the technical benefits of	Your answer should explain <u>two</u> technical	
mechanical biological treatment methods	benefits of the mechanical biological	
	treatment methods identified in 2.1.	
3.2 Explain the environmental benefits of	Your answer should explain one	
mechanical biological treatment methods	environmental benefit of the mechanical	
	biological treatment methods identified in	
	2.1.	
3.3 Describe the potential problems	Your answer should describe three problems	
associated with a mechanical biological	associated with each of the mechanical	
treatment methods	biological treatment methods identified in	
	2.1.	
3.4 Explain how problems can be controlled	Your answer should explain how the	
and managed	problems identified in 3.3 can be controlled	
	and managed.	
Learning Outcome		
	take of mechanical biological treatment meth	
Assessment Criteria	Indicative Content	Learner Answer
4.1 List factors that may limit the use of	Your answer should list the factors that may	
mechanical biological treatment methods	limit the use of mechanical biological	
	treatment methods.	
4.2 Explain why certain factors may affect	Your answer should explain why certain	
the use of mechanical biological treatment	factors may affect the use of mechanical	
methods	biological treatment methods.	
Learning Outcome		
5. Understand what emissions, products and re	esidual wastes are associated with mechanical b	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			
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	Your answer should:		
affect end of life vehicle facilities.	 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	Your answer should describe the procedures		
reception at an end of life vehicle facility.	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	Your answer should list three records that you keep on an end of life vehicle facility and the		
should be kept.	length of time they should be kept.		
1.4 Describe the procedures for rejection of	Your answer should describe the procedures		
waste from an end of life vehicle facility.	for the rejection of waste from an end of life		
,	vehicle facility.		
Learning Outcomes			
2. Understand the principles of dismantling and			
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe the end of life vehicle	Your answer should describe:		
dismantling methods and the principles upon	The end of life vehicle dismantling		
which they are based.	methods.		
	The principles upon which they are		
	based.		
	The types of equipment required during		
	the process.		



Assessment Criteria	Indicative Content	Learner Answer
3. Understand the health, safety and environment	ental benefits and hazards associated with dism	nantling and depollution processes.
Learning Outcomes		
	environmental and health and safety factors in your answer.	
	Hint: you will need to consider relevant	
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.	
2.8 Describe how all recovered/ removed parts and materials should be stored.	Your answer should describe how <u>all</u> recovered/removed parts and materials should be stored.	
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.	
2.6 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.	
	Hint: you will need to consider relevant health and safety factors in your answer, as well as the practicalities of item removal.	
2.5 Describe how certain items can impact on the depollution process.	For <u>four</u> of the items listed in 2.3, describe how four can impact on the depollution process.	
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	
2.3 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.	
2.2 Describe the end of life vehicles categories.	Your answer should describe <u>two</u> categories of end of life vehicles	



3.1 Describe the benefits of complying with health and safety procedures during the dismantling and depollution process.	Your answer should describe two benefits of complying with health and safety procedures 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.	 Your answer should describe: <u>Two</u> potential hazards associated with the dismantling and depollution process. <u>Two</u> potential hazards associated with handling electric and hybrid vehicles. <u>Two</u> potential hazards associated with hazardous components e.g. catalytic converters. 	
	Hint: for each hazard you will need to consider relevant environmental and health and safety factors.	
3.4 Describe the risks associated with the dismantling and depollution process can be controlled and managed.	Your answer should describe the risks associated with the dismantling and depollution process can be controlled and managed.	
	Hint: refer to the hierarchy of control in your answer.	
Learning Outcomes 4. Understand what pollutants and residual wa managed.	stes are associated with dismantling and depollo	ution processes and how these can be
Assessment Criteria	Indicative Content	Learner Answer
 4.1 Describe the impact of potential pollutants from the dismantling and depollution process on: The environment Amenities 	Your answer should describe the impact of four potential pollutants from the dismantling and depollution process on the environment and amenities.	



	Hint: refer to the source pathway receptor principle in your answer.	
4.2 Explain how pollutants can be controlled and managed.	Your answer should explain how <u>two</u> 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 prepared for re-use 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 prepared for re-use 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 <u>three</u> 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			
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 legislative requirements and	Your answer should:		
regulations that directly affect metal	Identify the relevant legislative		
recycling facilities.	requirements and regulations.		
	Describe the relevant legislative		
	requirements and regulations, in terms of		
	their key principles and requirements for		
	both operators and producers.		
1.2 Describe the procedures for waste	Your answer should describe the procedures		
reception at a metals recycling facility.	for waste reception at a metals recycling		
	facility, including the basic infrastructure and		
	equipment needed.		
1.3 List the records kept on a metals recycling	Your answer should list three records that you		
facility and the length of time they should be kept.	keep on a metals recycling facility and the length of time they should be kept.		
1.4 Describe the procedures for the rejection	Your answer should:		
of waste from a metals recycling facility.	 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, including storage and time scales		
	that may be involved.		
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	Your answer should describe the different		
methods and the principles upon which they	metals recycling treatment methods		
are based.	available and the principles upon which they		
	are based.		



2.2 Identify the metal types and grades that	Your answer should identify the metal types	
can be treated by the metals recycling	and grades (e.g. 4C, 8B and 3B) that can be	
process.	treated by the metals recycling process.	
2.3 Describe the stages of the metals	Your answer should describe all stages of the	
recycling treatment process for metal types	metals recycling treatment process for the	
and grades.	metal types and grades identified in 2.2.	
2.4 Explain limitations of the metals recycling	Your answer should explain three limitations	
treatment process.	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	Your answer should explain two	
metals recycling.	environmental benefits of metal recycling.	
3.2 Describe potential hazards associated	Your answer should describe:	
with the metals recycling process.	<u>Three</u> 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	Your answer should explain how the risks	
hazards identified can be controlled and	posed by the hazards identified in 3.2 can be	
managed.	controlled and managed.	
	Hadron for the third because to a fine the line was	
	Hint: refer to the hierarchy of control in your	
	answer.	
Learning Outcome		
	ste are associated with metals recycling process	
Assessment Criteria	Indicative Content	Learner Answer
4.1 List the key emissions from the metals	Your answer should list the key emissions from	
recycling process.	the metals recycling process.	
4.2 Explain how emissions can be controlled	For the emissions identified in 4.1, explain the	
and managed.	control measures that can be put in place.	
	Hint: refer to the source pathway receptor	
	principle in your answer.	
4.3 List the waste residues from the metal	Your answer should list the waste residues	
recycling treatment process.	from the metal recycling treatment process.	
	, ment me mercane e / emig ne cannot a process.	I .



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



VRQ414: Principles and practices of managing a hazardous waste storage facility

Learning Outcome			
1. Understand how waste is received or rejected at a hazardous waste storage facility			
Assessment Criteria	Indicative Content	Learner Answer	
1.1 Describe the legislative requirements, codes of practice and guidance applicable to the reception and storage of hazardous waste on site	 Your answer should: Identify the relevant Legislation. Describe the relevant regulations, in terms of their key principles and requirements for both operators and producers. Codes of Practice Regulatory Guidance Notes (RGN) 		
1.2 Describe the procedures for waste reception at a hazardous waste storage facility	Your answer should describe the organisational procedures for waste reception at a hazardous waste storage facility.		
1.3 List the waste reception records kept at a hazardous waste storage facility	Your answer should list <u>four</u> records that you keep relating to waste reception at a hazardous waste storage facility.		
1.4 Describe the procedures for the rejection of waste from a hazardous waste storage facility	Your answer should describe the procedures for the rejection of waste from a hazardous waste storage facility.		
1.5 Explain the process for recording and reporting hazardous waste consignee returns to consignor and the regulator	Your answer should explain the process for recording and reporting hazardous waste consignee returns to consignor and the regulator: Information recorded when accepting hazardous waste at a recovery or disposal facility Rejected loads Self-disposal returns Consignment note errors		



	Mistakes or omissions on returns	
	(including how to correct and resubmit	
	the return)	
	Hint: Remember to include time scales in	
	your answer.	
Learning Outcome		
2. Understand the principles of hazardous wast		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the procedures for the	Your answer should describe the procedures	
management and storage of hazardous	for the management and storage of	
waste in terms of:	hazardous waste in terms of:	
 How waste is stored 	 How waste is stored 	
How waste is segregated	 How waste is segregated 	
How waste is identified	 How different wastes are identified 	
2.2 Identify the waste types that can be	Your answer should identify two wastes types	
stored at a hazardous waste storage facility	that can be stored at a hazardous waste	
	storage facility using the methods described	
	in 2.1.	
2.3 Describe the procedures for:	Your answer should describe the procedures	
Transport operations	for:	
Supplying transport resources	 Transport operations 	
Using transport resources	 Supplying transport resources 	
	 Using transport resources (e.g. vehicles 	
	and ancillary equipment involved in the	
	safe transfer and transport of waste)	
2.4 Explain the requirements for the following:	Your answer should explain the requirements	
Sealed drainage	for the following:	
Impermeable base	Sealed drainage	
 Secondary containment for liquid wastes 	 Impermeable base 	
	 Secondary containment for liquid wastes 	
Learning Outcome		
3. Understand the hazards associated with haz	ardous waste storage	
Assessment Criteria	Indicative Content	Learner Answer
3.1 Describe the potential hazards associated	Your answer should describe:	
with hazardous waste storage in relation to:		
Health and safety		
· · · · · · · · · · · · · · · · · · ·		



Environment	 <u>Two</u> potential hazards associated with hazardous waste storage in relation to health and safety <u>Two</u> potential hazards associated with hazardous waste storage in relation to the environment 	
3.2 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 3.1 can be controlled and managed. Hint: refer to the hierarchy of control stages in your answer for the health and safety hazards.	
Learning Outcome		
4. Understand what emissions are associated w		
Assessment Criteria	Indicative Content	Learner Answer
4.1 List the key emissions from a hazardous waste storage facility	Your answer should list two key emissions from a hazardous waste storage facility.	
4.2 Explain how emissions can be controlled and managed	For each of the emissions identified in 4.1, explain <u>two</u> control measures that can be put in place.	
	Hint: refer to the source pathway receptor principles in your answer.	
4.3 Explain why it is important to ensure compliance with an environmental permit for a hazardous waste storage facility	Your answer should give three reasons why it is important to ensure compliance with an Environmental Permit for a hazardous storage facility.	
4.4 Identify the resources available to deal with a spillage on site	Your answer should identify three pieces of equipment available to deal with spillages on site	
4.5 Explain how to use resources in environmental incidents and how any waste materials will be stored prior to disposal	Your answer should explain how: The equipment listed in 4.4 is used to deal with a spillage The waste material is stored prior to disposal	

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VRQ415: Principles and practices of managing land spreading activities

Learning Outcome		
Understand legislative requirements for land		1.
Assessment Criteria 1.1 Describe the legislative requirements, regulations, codes of practice and guidance applicable to land spreading activities 1.2 Describe the process for completion and submission of the required deployment form for land spreading activities	Indicative Content Your answer should describe the legislative requirements, regulations, codes of practice and guidance (e.g. regulatory guidance notes) applicable to land spreading activities. Your answer should: Provide a description of the process for completing the deployment form.	Learner Answer
	 Provide a description of the key requirements in relation to each section (A to F excluding section C) of the deployment form. Provide a description of the process for submitting the deployment form to the regulator. Your answer should include examples for each section (i.e. risk assessments or lists of waste streams required) in the format provided by the regulator. Refer to the EWC/LoW Codes within your answer 	
	Hint: You can refer to a parcel of land as a field in your answer.	
1.3 Identify the supporting documentation that would be required to apply for a deployment for a Landspreading Permit	Your answer should list and give a brief description of the documents required to support the deployment application.	
1.4 Explain why a new deployment may be required and the requirements to vary an existing deployment	Your answer should explain:	



	 Four or more reasons why a new deployment application may be required The requirements to vary an existing deployment with the regulator 	
1.5 Describe the planning permission, permit requirements and environmental	Your answer should describe each of the following required for land spreading	
management system (EMS) required for land spreading activities	 activities: Planning permission Permit requirements Environmental management system (EMS) 	
Learning Outcome		
2. Understand how waste is received or reject		
Assessment Criteria	Indicative Content	Learner Answer
2.1 Describe the procedures for waste reception in relation to land spreading activities	Your answer should describe the organisational procedures for waste reception in relation to land spreading activities.	
2.2 Identify the waste reception records kept in relation to land spreading activities	Your answer should identify five records that you keep relating to waste reception in preparation for land spreading activities.	
2.3 Describe procedures for the storage and management of the waste for landspreading	Your answer should describe procedures for storing and managing waste for land spreading. Your answer should refer to conditions within the Permit and deployment, including those for stackable and non - stackable wastes.	
2.4 Describe the procedures for the rejection of waste in relation to land spreading activities	Your answer should describe the procedures for the rejection of waste in relation to land spreading activities.	
Learning Outcome		
3. Understand the principles of land spreading Assessment Criteria	Indicative Content	Learner Answer
Assessment Chiefla	indicalive Content	Leamer Answer



 land. 3.5 Explain the risks associated with different methods of spreading waste to land. 3.6 Explain the testing requirement prior, during and after land spreading has taken 	spreading waste to land selected in 3.2 Your answer should explain four risks associated with the three methods of spreading waste to land selected in 3.2. Your answer should explain the testing requirement prior, during and after land	
place for Sewage Sludge	spreading has taken place for Sewage Sludge Your response should take into account good / best practice.	
Learning Outcome 4. Understand the hazards associated with land	nd spreading activities	
Assessment Criteria	Indicative Content	Learner Answer
		Learner Answer
land spreading	environmental benefits of land spreading	
4.1 Explain the environmental benefits of land spreading4.2 Describe the potential hazards	Your answer should explain <u>two</u> environmental benefits of land spreading Your answer should describe two potential	



4.3 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 4.2 can be controlled and managed. Hint: refer to the hierarchy of control in your answer.	
Learning Outcome		
Assessment Criteria	ste are associated with land spreading activitied Indicative Content	Learner Answer
5.1 List the key emissions from land spreading activities	Your answer should list three key emissions from land spreading activities.	Learner Answer
5.2 Explain how emissions can be controlled and managed	For the emissions identified in 4.1, explain two control measures that can be put in place. Hint: refer to the source pathway receptor principles in your answer.	
 5.3 Describe the legal and best practice requirements for the following: Sealed drainage and an impermeable base Secondary containment for liquid wastes Maximum capacity's and freeboard of lagoons and containers 	Your answer should describe the requirements for the following: Sealed drainage and an impermeable base Secondary containment for liquid wastes Maximum capacity's and freeboard of lagoons and containers	
5.4 Explain how field drainage systems can impact watercourse contamination and how this can be controlled	Your answer should explain how field drainage systems can impact watercourse contamination and how this can be controlled.	
5.5 Identify the resources available to deal with a spillage on site	Your answer should identify three pieces of equipment available to deal with spillages on site.	



VRQ416 - Principles and practices of managing a WEEE Facility

Learning Outcome			
1. Understand how waste is received or rejected at a WEEE facility.			
Assessment Criteria	Indicative Content	Learner Answer	
1.1 Describe the legislative requirement, regulations, codes of practice and guidance applicable to WEEE facilities.	Your answer should describe the legislative requirements, regulations, codes of practice and guidance applicable to WEEE facilities. Your answer must include reference to:		
	 The WEEE regulations 2013. Requirements for operators and producers. WEEE appropriate measures for permitted facilities. 		
1.2 Describe the procedures for waste reception at a WEEE facility.	Your answer should describe the procedures for waste reception at a WEEE facility. Hint: your answer can reference: • Pre-acceptance checks. • Waste tracking systems. • Site infrastructure.		
1.3 List the records kept on a WEEE facility and the length of time they should be kept.	Your answer should list three records that you keep on a WEEE facility and the length of time they should be kept.		
1.4 Describe the procedures for rejection of waste from a WEEE facility.	Your answer should describe the procedures for the rejection of waste from a WEEE facility. Hint: your answer must include: • Hazardous waste consignment note. procedures. • Quarantine areas.		



Learning Outcome			
2. Understand the principles of WEEE treatment at an Authorised Treatment Facility (ATF).			
Assessment Criteria	Indicative Content	Learner Answer	
2.1 Describe the storage requirements for WEEE prior to treatment.	 Your answer should describe the specific WEEE storage requirements, including: Design of the site including traffic management and pedestrian access. Site surface and drainage system. Location and capacity of storage areas. Weather-proof covers, spillage facilities. Fire Prevention Plan. 		
2.2 Describe the technical requirements for sites undertaking WEEE treatment operations.	Your answer should describe the technical requirements for undertaking WEEE treatment including: • BATRRT. • Priorities for treatment. • Characterising waste. • How to manage POPS waste.		
2.3 Describe WEEE treatment methods and the principles on which they are based.	Your answer should describe three WEEE treatment methods and the principles upon which they are based. Your answer should: Briefly describe the process. What the process is aiming to achieve. What materials can be fed into the process.		
2.4 List the items that must be removed as whole items from any separately collected WEEE before treatment commences. 2.5 Describe the requirements for weighing WEEE prior to and after treatment.	Your answer should list <u>six</u> items that must be removed from WEEE entering the treatment facility before treatment commences. Your answer should describe the requirements for weighing and categorisation of WEEE and residues prior to and after treatment.		



2.6 Describe best practice for maximising the quality of WEEE derived materials.	Your answer should describe the best practice approaches for maximising the quality of WEEE derived material on a WEEE facility.	
Learning Outcome		
3. Understand the principles of reuse in relation	n to WEEE.	
Assessment Criteria	Indicative Content	Learner Answer
3.1 List the items which can be separated for reuse.	Your answer should list three items which can be separated for reuse. Hint: you will need to consider the presence	
	of POPs and any restrictions on reuse.	
3.2 Describe the quality standards for the reuse of WEEE.	Your answer should describe the quality standards for reuse of WEEE, including the tests undertaken to increase its potential for reuse.	
3.3 Describe best practice for the disassembly and storage of WEEE to increase potential for reuse.	Your answer should describe best practice for disassembling and storing WEEE to increase its potential for reuse. Your answer should refer to any relevant	
3.4 Describe the type of facility that can issue WEEE evidence for reuse and treatment.	 guidance documents. Your answer should describe: The type of facility that can issue WEEE evidence. How would the facility issue the evidence notes. What information is required on 'AATF' quarter returns. 	
Learning Outcome	WEEE C. 199	
4. Understand the requirements for hazardous		
4.1 List the WEEE components classified as hazardous waste.	Indicative Content Your answer should list a minimum <u>six</u> components that are classified as hazardous waste.	Learner Answer



4.2 Describe the process for sending hazardous waste consignee returns to the regulator.	 Your answer should describe: What Consignee returns are. How often they should be submitted to the regulator. Methods of submitting consignee returns to the regulator. What WEEE wastes have reduced reporting requirements. How to send a return to the Producer or Holder of the waste. 	
E. Understand the requirements for eventing	WEE	
5. Understand the requirements for exporting Assessment Criteria	Indicative Content	Learner Answer
5.1 Describe the legislation and regulations applicable to exporting WEEE.	Your answer should describe one piece of legislation applicable to the export of WEEE.	Learner Answer
5.2 Explain how WEEE can be legally exported.	Your answer should explain how WEEE can be legally exported and should refer to: • Approved Exporters. • What is obligated and non-obligated WEEE. • What records are to demonstrate targets are being met for WEEE export.	
Learning Outcome		
6. Understand the hazards associated with m		
Assessment Criteria	Indicative Content	Learner Answer
6.1 Identify the causes of accidents on a WEEE facility.	Your answer should identify three causes of accidents on a WEEE facility.	
6.2 Identify the methods used to prevent accidents on a WEEE facility.	Using your answers provided within 6.1, identify the methods used to prevent these accidents on a WEEE facility.	
Learning Outcome		
7. Understand the technical benefits, environ		
Assessment Criteria	Indicative Content	Learner Answer
7.1 Explain the environmental benefits of WEEE treatment process.	Your answer should explain one environmental benefit of treating WEEE waste methods.	



7.2 Explain the technical benefits of WEEE treatment process.	Your answer should explain two technical benefits of WEEE treatment methods. Hint: technical benefit relates to why you have undertaken the treatment activity.	
7.3 List the emissions from WEEE treatment process	Your answer should list a minimum of four emissions from a WEEE treatment facility	
7.4 Explain how the emissions can be controlled and managed	Your answer should explain how the emissions identified in 7.3 can be controlled and managed.	
7.5 Explain how residual waste from WEEE treatment methods can be controlled and managed.	Your answer should explain how residual waste from WEEE treatment methods can be controlled and managed.	
	Hint: residual waste refers to the material or liquids that are left over once the WEEE treatment process is complete.	
7.6 Explain why it is important to ensure compliance with an environmental permit for a WEEE facility.	Your answer should explain <u>three</u> reasons why it is important to ensure compliance with an environmental permit for a WEEE facility.	



Qualification Structure

To achieve this qualification, you must complete a minimum of 6 units to achieve the qualification. This should be made up of the 5 units from the Mandatory Group and 1 unit from the Optional Group:

Mandatory Units

Ofqual Code	Title	Level	Unit Code
M/617/2098	Health and safety in the waste and resource management industry	4	VRQ401
T/617/2099	Environmental protection in the waste and resource management industry	4	VRQ402
D/617/2100	Principles of sustainable waste and resource management	4	VRQ403
H/617/2101	Legislation for the operation of a waste management facility	4	VRQ404
K/617/2102	Stakeholder communication and other non-legislative factors affecting the waste and resource management industry	4	VRQ405

Optional Units

Ofqual Code	Title	Level	Unit Code
M/617/2103	Principles and practices of managing a physical treatment processing facility	4	VRQ406
T/617/2104	Principles and practices of managing a biological treatment processing facility	4	VRQ407
A/617/2105	Principles and practices of managing a thermal treatment processing facility	4	VRQ408
F/617/2106	Principles and practices of managing land remediation activities	4	VRQ409
J/617/2107	Principles and practices of managing an inert landfill	4	VRQ410
L/617/2108	Principles and practices of managing a mechanical biological treatment facility	4	VRQ411
R/617/2109	Principles and practices of managing an end of life vehicle facility	4	VRQ412
J/617/2110	Principles and practices of managing a metals recycling facility	4	VRQ413
F/618/1159	Principles and practices of managing a hazardous waste storage facility	4	VRQ414
T/618/1160	Principles and practices of managing land spreading activities	4	VRQ415
Y/650/9656	Principles and practices of managing a WEEE facility	4	VRQ416

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Our mission is to unite, equip and mobilise our professional community to lead, influence and deliver the science, strategies, businesses and policies for the sustainable management of resources and waste.

For more information about how we can support you, visit **ciwm.co.uk.**

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