

Landfill Non-Hazardous Waste

Learning Outcome	Assessment Criteria	Source
Understand the legislative and regulatory requirements for a non-hazardous landfill	1.1 Describe the legislative requirements, regulations, codes of practice and guidance applicable to a non-hazardous landfill in terms of: - Design - Construction - Operation - Closure - Aftercare 1.2 Describe the principles of financial provision for landfill (including when to take an assessment, the timeframe and financial costs associated with aftercare) 1.3 Explain the relationship between permit conditions and operating techniques	https://www.gov.uk/government/publications/environmental-permitting-guidance-the-landfill-directive https://naturalresources.wales/media/1216/understanding-the-landfill-directive-lfd-1.pdf2lang=en https://www.gov.uk/guidance/landfill-operators-environmental-permits/close-your-landfill-site https://naturalresources.wales/permits-and-permissions/environmental-permits/guidance-to-help-you-comply-with-your-environmental-permit/2lang=en https://www.legislation.gov.uk/uksi/2016/1154/schedule/10/made https://www.gov.uk/government/publications/landfill-epr-502-and-other-permanent-deposits-of-waste-how-to-surrender-your-environmental-permit/landfill-and-deposit-for-recovery-aftercare-and-permit-surrender#aftercare https://naturalresources.wales/media/2130/how-to-surrender-your-environmental-permit-additional-guidance-for-landfill-and-other-permanent-deposits-of-waste.pdf https://www.gov.uk/guidance/landfill-operators-environmental-permits/calculate-your-financial-provision https://cdn.cyfoethnaturiol.cymru/media/695428/regulatory-guidance-note-5-operator-competence.pdf https://www.gov.uk/guidance/landfill-operators-environmental-permits/develop-and-maintain-management-plans





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2. Understand the	2.1 Describe the principles of	https://naturalresources.wales/media/2111/how-to-comply-with-your-
requirements for site	containment	environmental-permit-additional-guidance-for-landfill-epr-502.pdf
engineering at a non-	2.2 Describe the characteristics	https://www.gov.uk/guidance/landfill-operators-environmental-
hazardous landfill	of liner and capping designs	permits/develop-and-maintain-management-plans#manage-landfill-gas
	2.3 List the elements of site	https://www.gov.uk/guidance/landfill-operators-environmental-
	construction that require	permits/accept-the-right-waste
	regulatory approval	https://www.gov.uk/government/publications/understanding-the-landfill-
		directive-lfd-1
		Landfill operators: environmental permits - Guidance - GOV.UK
		(www.gov.uk)
		Landfill operators: environmental permits - Manage landfill gas - Guidance -
		GOV.UK (www.gov.uk)
		https://www.gov.uk/guidance/landfill-operators-environmental-
		permits/design-and-build-your-landfill-site
		https://www.gov.uk/guidance/landfill-operators-environmental-
		permits/construction-quality-assurance-cqa
3. Understand the waste	3.1 Define non-hazardous waste	Dispose of waste to landfill - GOV.UK (www.gov.uk)
reception procedures for a	in relation to landfill activities.	Regulatory Guidance Series, No LFD 1 Understanding the landfill directive
non-hazardous landfill	3.2 List the types of waste	https://www.gov.uk/dispose-hazardous-waste/consignees
	banned from a non-hazardous	Dispose of waste to landfill - GOV.UK (www.gov.uk)
	landfill	Regulatory Guidance Series, No LFD 1 Understanding the landfill directive
	3.3 Describe the legislative	<u>Landfill operators: environmental permits - Accept the right waste -</u>
	requirements, codes of practice	Guidance - GOV.UK (www.gov.uk)
	and guidance applicable to	GOV.UK: Duty of Care Waste Transfer Note
	the reception of waste at a non-hazardous landfill.	GOV.UK: Managing your waste an overview
	3.4 Describe the regulatory	
	requirements and organisational procedures for	
	dealing with unauthorised	
	wastes.	
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	 3.5 Describe the waste inspection, identification procedures and handling requirements for the types of non-hazardous waste received on site. 3.6 Describe the uses, purposes and processing requirements for documents relating to the reception and validation of non-hazardous waste received on the site. 3.7 Describe the records required by legislation and by organisational procedures relating to the reception, inspection, and validation of non-hazardous wastes. 	
4. Understand how to manage a non-hazardous landfill	4.1 Describe the procedures for managing vehicles on a landfill site 4.2 Describe the implications of 'settlement' and 'compaction' for: - Restoration plan - Gas and leachate management 4.3 Describe the recommendations for managing landfill stability 4.4 Explain when landfill stability may be a problem	HSE – Workplace transport safety(published 05/13) Landfill operators: environmental permits - Guidance - GOV.UK (www.gov.uk) Landfill operators: environmental permits - Restore your landfill site - Guidance - GOV.UK (www.gov.uk) Landfill operators: environmental permits - How to do a stability risk assessment: landfill sites for hazardous and non-hazardous waste - Guidance - GOV.UK (www.gov.uk) GOV.UK - Using Geomembranes in landfill engineering LFE5





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	4.5 Explain why it is important to	
	cover waste with suitable	
	materials	
	4.6 List the types of waste that	
	might damage landfill liners and	
	restoration layers	
	4.7 Describe the procedures for	
	controlling:	
	- Mud and other debris	
	- Noise	
	- Dust	
	- Odour	
	- Litter	
	- Vermin	
	4.8 Explain why it is important to	
	plan the phasing of filling	
	operations	
5. Understand the	5.1 Explain why it is important to	EA EP171 (publishing.service.gov.uk)
procedures for managing	manage landfill gas	GOV.UK – Guidance on the management of landfill gas, LFTGN03
landfill gas from a non-	5.2 List the information that	
hazardous landfill	should be included in a landfill	
	gas management plan	
	5.3 List the information that	
	should be included in a landfill	
	gas monitoring and sampling	
	plan	
	5.4 Outline the actions to take if	
	a perimeter borehole contains	
	landfill gas components	
	(methane, CO2) at a range of	
	levels (Including above a	
	compliance limit)	





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	5.5 Explain why it is important to	
	collect, utilise and treat landfill	
	gas	
	5.6 Explain why it is important to	
	control landfill gas emissions	
	and manage gas field	
	balancing	
	5.7 Describe the procedures for	
	dealing with deep and shallow	
	fires within a non-hazardous	
	landfill	
6. Understand the	6.1 Describe the requirements	pres 17 (publishing.service.gov.uk)
procedures for managing	for managing leachate	<u>Landfill operators: environmental permits - Monitor and report your</u>
leachate from a non-	6.2 Explain why leachate levels	performance - Guidance - GOV.UK (www.gov.uk)
hazardous landfill	must be maintained below a	<u>Landfill operators: environmental permits - Manage leachate - Guidance -</u>
	limit	GOV.UK (www.gov.uk)
	6.3 Describe the procedure for	<u>leachate management plan</u>
	dealing with:	new method to recirculate leachate
	- Leachate above control	
	levels	
	- A breach of compliance	
	limit occurring	
	6.4 Describe the principles of	
	leachate treatment and the	
	associated pollution risks	
	6.5 Describe when a leachate	
	re-circulation system may be	
	permitted and any	
	requirements for its use	
7. Understand how to	7.1 Explain why monitoring	Monitoring of Landfill leachate, groundwater and surface water: LFTGN 02
monitor groundwater and	groundwater and surface water	
surface water at a non-	is needed at a non-hazardous	
hazardous landfill	landfill site	





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	7.2 Differentiate between	
	monitoring for:	
	- Operational performance	
	- Permit compliance limits	
8. Understand the	8.1 Explain why it is important to	
procedure for closure and	develop a restoration and	
aftercare of a non-	aftercare scheme for a non-	
hazardous landfill	hazardous landfill.	
9. Understand the main	9.1 Identify the causes of	Landfill operators: environmental permits - Guidance - GOV.UK (www.gov.uk)
causes of accidents in	accidents in relation to non-	<u>Landfill operators: environmental permits - Develop and maintain</u>
relation to non-hazardous	hazardous landfill activities	management plans - Guidance - GOV.UK (www.gov.uk)
landfill activities and how	9.2 Identify the methods used to	https://www.hse.gov.uk/waste/landfillfires.htm
to prevent them	prevent accidents in relation to	HSE: Landfill fires – controlling the risk
	non-hazardous landfill activities	
	9.3 Describe the dangerous	
	substances and areas of	
	explosive atmospheres that	
	may exist on a landfill site	
	9.4 Outline the operator's	
	responsibilities for area	
	classification and marking sones	
	9.5 Explain how to control	
	ignition sources to reduce fire	
	risk at a non-hazardous landfill	
	site	

