



ULO EM-1	TITLE: Manage and implement policies and procedures for environmental protection on site		EQF 6
Work tasks:	Act in accordance with the relevant environmental permissions/laws		
Weighting:	2		
Learning outcomes: LO 1: Construct environmental policies and procedures LO 2: Identify the techniques required for the effective review of environmental policies and procedures LO 3: Identify how to ensure everyone understands the principles of the environmental policies and procedures in place LO 4: Conduct an Environmental Analysis LO 5: EMS procedures implementation LO 6: Audit and Improve EMS			
Knowledge <i>(assimilation of knowledge throughout learning)</i>	Skills <i>(Ability to apply knowledge)</i>	Competences <i>(Measure of responsibility and autonomy; ability to use knowledge, skills, social abilities)</i>	
1) Construct environmental policies and procedures / LO 1			
<ul style="list-style-type: none"> - Describe the importance of keeping up to date with changes in environmental legislation and best practice - identify what information should be included in the environmental policy 	<ul style="list-style-type: none"> - Demonstrate an in-depth understanding of the environmental protection principles, relevant to your site - Identify and use relevant and up-to-date guidance and information sources for 	<ul style="list-style-type: none"> - Manage the implementation of environmental policies and procedures, so that they are in line with current legislation and best practice - Assume responsibility for the implementation and communication of environmental policies 	



<ul style="list-style-type: none"> - Identify what environmental procedures are required 	<p>environmental best practice</p> <ul style="list-style-type: none"> - Develop, implement and review environmental policies and procedures 	<p>and procedures</p>
<p>2) Identify the techniques required for the effective review of environmental policies and procedures / LO 2</p>		
<ul style="list-style-type: none"> - Demonstrate advanced knowledge on the importance of keeping up to date with changes in environmental legislation and best practice 	<ul style="list-style-type: none"> - Use advanced skills to seek expert advice when needed - Identify and use relevant and up-to-date guidance and information sources for environmental best practice 	<ul style="list-style-type: none"> - Act independently to ensure the regular review and amendment of environmental policies and procedures - Monitor the implementation of environmental policies and procedures on a regular basis
<p>3) Identify how to ensure everyone understands the principles of the environmental policies and procedures in place / LO 3</p>		
<ul style="list-style-type: none"> - Demonstrate advanced knowledge on the importance of ensuring that everyone understands their obligations with regards to environmental protection 	<ul style="list-style-type: none"> - Use effective lines of communication - Obtain feedback from the staff 	<ul style="list-style-type: none"> - Assume responsibility for ensuring staff are adequately trained and understands the relevant environmental management issues applicable to the site
<p>4) Conduct an Environmental Analysis / LO 4</p>		
<ul style="list-style-type: none"> - identify the reasons for implementing an environmental management system (EMS) - determine the process required to develop and implement an EMS - Define environmental analysis tools and 	<ul style="list-style-type: none"> - Demonstrate advanced skills to apply environmental analysis tools and techniques - Assess the significance of environmental consequences 	<ul style="list-style-type: none"> - Lead the environmental analysis team - Supervise and instruct the personnel on environmental analysis procedures



<p>techniques that will be implemented</p> <ul style="list-style-type: none"> - Identify environmental impacts to air, water, soil quality 		
<p>5) EMS procedures implementation / LO 5</p>		
<ul style="list-style-type: none"> - Define Environmental Management System (EMS) procedures that will be developed and implemented 	<ul style="list-style-type: none"> - Integrate EMS procedures into everyday workers' operation - Demonstrate advanced skills by planning corrective actions 	<ul style="list-style-type: none"> - Monitor and assume responsibility for implementation of EMS procedures
<p>6) Audit and Improve EMS / LO 6</p>		
<ul style="list-style-type: none"> - Demonstrate an advanced knowledge of EMS audit plans - Describe the benefits of implementing an EMS 	<ul style="list-style-type: none"> - Design an EMS audit plan - Conduct EMS Inspections - Evaluate the EMS inspections results - Conduct corrective actions 	<ul style="list-style-type: none"> - Organise EMS audit teams - Assume responsibility for the implementation of audit feedback and corrective actions - Assume responsibility for reviewing and implementing improvements to the EMS



ULO EM-2	TITLE: Manage environmental aspects of sustainable business practices		EQF 6
Work tasks:	Ensure that environmental impacts are evaluated and managed in daily operations and included in training programmes for staff		
Weighting:	2		
Learning outcomes: <ul style="list-style-type: none"> LO 1: Assessment of Environmental Operation of the solid waste management site LO 2: Manage and control the solid waste management facility environmental aspects and impacts LO 3: Plan and certify Human and Financial Resources on the management of Environmental aspects and impacts LO 4: Implement environmental training arrangements LO 5: Implement improvements to the environmental performance of the site LO 6: Identify, assess and respond to environmental emergencies and incidents 			
Knowledge <i>(assimilation of knowledge throughout learning)</i>	Skills <i>(Ability to apply knowledge)</i>	Competences <i>(Measure of responsibility and autonomy; ability to use knowledge, skills, social abilities)</i>	
1) Assessment of Environmental Operation of the solid waste management site / LO 1			
- Demonstrate advanced knowledge to identify the key indicators required for the efficient environmental operation of the solid	- Evaluate environmental operations of the solid waste management site using agreed targets/key performance indicators, for each	- Monitor the implementation of environmental assessment techniques and processes against identified and agreed parameters and targets	



<p>waste management site</p> <ul style="list-style-type: none"> - Demonstrate advanced knowledge on applicable environmental site assessment processes 	<p>relevant activity</p> <ul style="list-style-type: none"> - Design, implement and regularly review environmental site assessment processes 	
<p>2) Manage and control the solid waste management facility environmental aspects and impacts / LO 2</p>		
<ul style="list-style-type: none"> - Explain in detail the environmental aspects and impacts associated with solid waste management operations - Demonstrate advanced knowledge to describe the main types of environmental impacts – emissions to air, waste/outputs disposal - Explain in detail the planning consents and environmental conditions applicable to the site - Demonstrate advanced knowledge to describe the benefits of improved environmental performance - Explain in detail the environmental incident and emergency arrangements at the solid waste management facility 	<ul style="list-style-type: none"> - Demonstrate advanced skills on the identification of environmental aspects in the workplace and their existing controls - Conduct an environmental assessment of the workplace, including the assessment of opportunities for environmental improvement - Seek advice from managers or specialists in environmental aspect evaluation when appropriate - Demonstrate advanced skills by providing accurate information about environmental matters relating to the workplace to personnel and other appropriate people (e.g. contractors, visitors, management, environmental regulators) 	<ul style="list-style-type: none"> - Implement appropriate action in respect to environmental aspects which constitute a high risk - Manage environmental aspects which constitute a low risk in accordance with organisational and operational procedures - Ensure that environmental aspect identification procedures and environmental impact assessments associated with solid waste management operations are carried out - Ensure environmental emergency arrangements, are reviewed and communicated to those involved - Ensure the completion of records/reports according to legislative requirements and/or organisational procedures - Ensure that records of environmental aspect identification and impact assessment to



		<p>regulatory and company requirements are maintained</p> <ul style="list-style-type: none"> - Ensure environmental impact assessments are completed, reviewed and are adequate and appropriate - Ensure checks that are carried out according to organisational procedures to ensure environmental control measures are effective and site is operational in compliance with environmental limits
<p>3) Plan and certify Human and Financial Resources on the management of Environmental aspects and impacts / LO 3</p>		
<ul style="list-style-type: none"> - Demonstrate advanced knowledge by identifying human and financial needs relating to environmental aspects and impacts 	<ul style="list-style-type: none"> - Evaluate and prioritise the needs relating to environmental aspects and allocate necessary human and financial resources 	<ul style="list-style-type: none"> - Manage the certification of human and financial resources on the facility's environmental aspects and impacts
<p>4) Implement environmental training arrangements / LO 4</p>		
<ul style="list-style-type: none"> - Demonstrate advanced knowledge on how to identify training needs - Demonstrate advanced knowledge on how 	<ul style="list-style-type: none"> - Designate environmental training programs for personnel and other involved persons - Maintain a record of continuing personnel 	<ul style="list-style-type: none"> - Manage the assessment of environmental training needs of solid waste management facility personnel



<p>to identify and explain the environmental training needs/requirements for those involved in solid waste management facility activities in relation to the specific aspects and impacts of solid waste related to the facility</p>	<p>environmental training and improvement</p>	<ul style="list-style-type: none"> - Supervise the implementation of the designated training programs - Supervise personnel training relating to environmental issues - Monitor, review and evaluate the effectiveness of the training programs
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5) Implement improvements to the environmental performance of the site / LO 5

<ul style="list-style-type: none"> - Demonstrate in-depth knowledge of the benefits for improving the environment: within the site, to areas adjoining the site - Demonstrate advanced knowledge on the importance of good public relations 	<ul style="list-style-type: none"> - Conduct the review and evaluation of information, identifying opportunities for improving environmental issues, identified by impact assessment, identified by inspection and suggested by others - Conduct the development of plans to make environmental improvements: identified at system review, identified by impact assessment, identified by inspection, required by changes in regulation and/or in response to external agencies - Promote environmental issues, environmental good practice, environmental improvements - Develop and maintain good public relations 	<ul style="list-style-type: none"> - Monitor, review and evaluate the improvements made - Implement the improvement plans developed
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6) Identify, assess and respond to environmental emergencies and incidents / LO 6



<ul style="list-style-type: none">- Demonstrate in-depth knowledge on environmental emergency incidents that may occur at the solid waste management facility- Describe the potential environmental incidents and emergencies which could arise on site- Describe how to effectively deal with environmental incidents and emergencies- Describe the importance of checking peoples understanding of emergency procedures	<ul style="list-style-type: none">- Design and implement environmental emergency response plans- Analyse environmental emergency response plans- Develop and implement procedures for dealing with environmental incidents and emergencies- Obtain and use feedback from emergency drills to improve procedures for environmental incidents and emergencies- Develop and implement processes to ensure that staff receive adequate training and information on how to deal with environmental incidents and emergencies	<ul style="list-style-type: none">- Supervise the preparation and implementation of environmental emergency response plans- Manage the instruction and the coordination of implementation of environmental emergency response plans- Ensure that drills for dealing with environmental incidents and emergencies are carried out regularly- Take responsibility for the effective management environmental incidents and emergencies- Assume responsibility for managing emergency services in the event of an environmental incident or emergency- Assume responsibility for dealing with stakeholders in the event of an environmental incident or emergency
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ULO EM-3	TITLE: Ensure staff complies with organisational policies and procedures for environmental protection on site		EQF 6
Work tasks:	Oversee activities to ensure that all staff activities are in line with environmental policies and procedures		
Weighting:	1		
<p>Learning outcomes: LO 1: Identify techniques which can be used to ensure staff carry out their work activities in line with organisational environmental policies and procedures, and in line with both the permit conditions and current environmental legislation</p> <p>LO 2: Recognise ways to regularly assess staff behaviour, and the appropriate action to take in order that any environmental non-compliance issues are rectified immediately</p> <p>LO 3: Recognise the techniques available to ensure staff remain vigilant to environmental hazards and risks on site, and report any issues promptly</p>			
<p style="text-align: center;">Knowledge <i>(assimilation of knowledge throughout learning)</i></p>	<p style="text-align: center;">Skills <i>(Ability to apply knowledge)</i></p>	<p style="text-align: center;">Competences <i>(Measure of responsibility and autonomy; ability to use knowledge, skills, social abilities)</i></p>	
1) Identify techniques which can be used to ensure staff carry out their work activities in line with organisational environmental policies and procedures, and in line with both the permit conditions and current environmental legislation / LO 1			
<ul style="list-style-type: none"> - Demonstrate advanced knowledge on how to check that staff understand their obligations with regard to environmental protection and why this should be done 	<ul style="list-style-type: none"> - Identify the implications that a breach in environmental compliance could have on the organisation and its employees - Maintain records of all environmental 	<ul style="list-style-type: none"> - Regularly monitor the staff during work activities, and identify any training gaps 	



	<p>protection activities, including breaches and determine the importance of doing this</p>	
<p>2) Recognise ways to regularly assess staff behaviour, and the appropriate action to take in order that any environmental non-compliance issues are rectified immediately / LO 2</p>		
<ul style="list-style-type: none"> - Demonstrate in-depth knowledge on how to identify the appropriate action to take in the event of a breach in environmental obligations - Demonstrate advanced knowledge on the importance of maintaining records of non-compliance 	<ul style="list-style-type: none"> - Gain feedback from staff on their environmental obligations 	<ul style="list-style-type: none"> - Regularly assess staff behaviour - Act independently to rectify any environmental non-compliance issues immediately - Regularly monitor staff during work activities, and measure their performance against set criteria
<p>3) Recognise the techniques available to ensure staff remain vigilant to environmental hazards and risks on site, and report any issues promptly / LO 3</p>		
<ul style="list-style-type: none"> - Demonstrate in-depth knowledge on potential environmental hazards and risks on site 	<ul style="list-style-type: none"> - Provide staff with guidance and procedures on environmental issues - Provide clear instruction for staff on environmental reporting procedures, and ensure that this can be carried out correctly 	<ul style="list-style-type: none"> - Assume responsibility for ensuring staff are adequately trained in environmental issues - Ensure that staff are aware of the implications that a breach of environmental compliance can have



ULO EM-4	TITLE: Monitor and maintain legislative compliance for environmental protection		EQF 6
Work tasks:	Conduct derivation reviews and implement measures to ensure a full complying with the law		
Weighting:	1		
Learning outcomes: LO 1: Compliance and implementation of environmental legislation LO 2: Ensure the absence of environmental repercussions and the adoption of the procedure required by law LO 3: Understand the ways that you can keep up to date with changes in permit conditions and environmental legislation LO 4: Identify techniques to plan and conduct regular environmental audits (internal and external) for the site, to ensure compliance with best practice, current legislation and organisational policies & procedures LO 5: Relate with stakeholders in order to make decisions taking into consideration the territorial needs LO 6: Manage applicable environmental permits for the site			
Knowledge <i>(assimilation of knowledge throughout learning)</i>	Skills <i>(Ability to apply knowledge)</i>	Competences <i>(Measure of responsibility and autonomy; ability to use knowledge, skills, social abilities)</i>	
1) Compliance and implementation of environmental legislation / LO 1			
- Demonstrate advanced knowledge of solid waste management environmental legislation	- Analyse environmental compliance legislation demands and coordinate	- Lead the management team responsible for Environmental Compliance measures	



<ul style="list-style-type: none"> - Determine when an EIA would be potentially be required - Identify the appropriate regulatory authorities to consult regarding EIAs - Explain in detail the environmental regulations applying to solid waste management operations - Explain in detail which environmental studies must be compiled and submitted to environmental competent authorities - Explain in detail the constraints applied by: permit to waste recovery, local authorities, national environmental agencies and other competent authorities - Explain in detail the implications of regulation and conditions applying to environmental impacts 	<p>undertaking of respective actions</p> <ul style="list-style-type: none"> - Communicate with and liaise with Environmental authorities 	<ul style="list-style-type: none"> - Assume responsibility for Environmental Compliance for overall solid waste management facility operations - Manage the monitoring of the solid waste management facility to ensure environmental compliance with: national legislation and regulation, local consents, permissions and agreements, company systems and procedures - Ensure environmental records, confirming monitoring and compliance to regulatory and company requirements, are maintained
2) Ensure the absence of environmental repercussions and the adoption of the procedure required by law / LO 2		
<ul style="list-style-type: none"> - Demonstrate in-depth knowledge on the administrative and authorisation processes - Demonstrate advanced knowledge on the environmental and legal constraints of the site activities 	<ul style="list-style-type: none"> - Arrange the implementation of EIA (Environmental Impact Assessment) and IPPC (Integrated Pollution Prevention and Control) guidance and procedures, where applicable - Arrange the implementation of measures 	<ul style="list-style-type: none"> - Ensure that plant operations have no harmful effects on the environment and on the surrounding ecosystem - Assume responsibility for the assessment and minimisation of the environmental impacts of the facility



	for energy recovery	
3) Understand the ways that you can keep up to date with changes in permit conditions and environmental legislation / LO 3		
<ul style="list-style-type: none"> - Demonstrate advanced knowledge on ways to keep up to date with changes in permit conditions and environmental legislation 	<ul style="list-style-type: none"> - Demonstrate advanced skills by determining the role of external auditors - Take into account the feedback and information from experts and other relevant information sources, for his/her decision making - Identify the implications of not keeping up to date with changes to permit conditions and legislation 	<ul style="list-style-type: none"> - Manage processes to identify recent trends and developments in his/her area of expertise
4) Identify techniques to plan and conduct regular environmental audits (internal and external) for the site, to ensure compliance with best practice, current legislation and organisational policies & procedures / LO 4		
<ul style="list-style-type: none"> - Demonstrate in-depth knowledge to describe the principles of environmental audits for the site - Demonstrate an critical understanding of the process, and the results, of internal and external audits 	<ul style="list-style-type: none"> - Demonstrate advanced skills by preparing a schedule for internal and external audits, which is in line with all legislative responsibilities 	<ul style="list-style-type: none"> - Assume responsibility for the results of any audits, and demonstrate any changes to policies or procedures as a result of audit findings - Ensure that internal audits are carried out by trained individuals



5) Relate with stakeholders in order to make decisions taking into consideration the territorial needs / LO 5

<ul style="list-style-type: none">- Demonstrate advanced knowledge about the roles and functions of bodies responsible for the environmental control	<ul style="list-style-type: none">- Build a network of relationships- Demonstrate mastery by preparing documents based on requests coming from the competent bodies	<ul style="list-style-type: none">- Conduct an examination of needs and expectations of the local area- Assume responsibility for the interaction with competent bodies
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6) Manage applicable environmental permits for the site / LO 6

<ul style="list-style-type: none">- Identify the applicable environmental permit requirements for your site	<ul style="list-style-type: none">- Complete all documentation required for environmental permitting	<ul style="list-style-type: none">- Assume responsibility for managing the environmental permit requirements
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ULO EM-5	TITLE Energy Management		EQF 6
Work tasks:	Energy Management		
Weighting:	2		
Learning outcomes: LO 1: Monitor Energy consumption LO 2: Energy management systems			
Knowledge <i>(assimilation of knowledge throughout learning)</i>	Skills <i>(Ability to apply knowledge)</i>	Competences <i>(Measure of responsibility and autonomy; ability to use knowledge, skills, social abilities)</i>	
1) Monitor Energy Consumption			
<ul style="list-style-type: none"> - Identification of energy needs and energy services procurement - Methods and equipment for energy monitoring in the facility (operating equipment and activities) - Demonstrate a critical understanding of the principles relating to the function of the measurement equipment 	<ul style="list-style-type: none"> - Analyse energy data acquired in line with operational parameters and working equipment - Ensure the proper operation of the energy monitoring equipment and application of respective monitoring techniques 	<ul style="list-style-type: none"> - Lead the management process that will identify and analyse facility's energy needs and associate acquired energy data to landfill operational parameters and equipment - Assume responsibility for the implementation of an energy management system 	
2) Develop and implement Energy management schemes – systems / LO 2			



Energy Management		
<ul style="list-style-type: none">- Energy policy development for efficient energy use- Energy baseline identification and allocation of performance indicators- Setting of targets and objectives to meet the policy- Energy management procedures to be developed and implemented	<ul style="list-style-type: none">- Integrate Energy management procedures into daily operational activities- Design an Energy Monitoring Plan- Conduct Energy monitoring- Evaluate energy monitoring results- Identify deviations and implement corrective actions- Continually optimize energy performance and improve energy management.	<ul style="list-style-type: none">- Coordinate the Energy Management team- Instruct personnel on Energy management policies and implemented procedures- Review energy policies- Assume responsibility for raising awareness on the importance of energy management and for employees' training