



ED1 Unit Elements (Written Exam)

Unit Element Name	Learning Outcomes
<p>Element 1: Key Environmental Cycles and the Effects of Human Activity on the Environment</p>	<ul style="list-style-type: none"> • Explain the meaning of the environment and the earth's key natural cycles. • Explain the general effects that human activity has on the environment (including an understanding of key terminology). • Outline the purpose of the Principles 15 and 16 made under the Rio Declaration on Environment and Development (1992). • Outline the role of non-governmental bodies and the media in influencing common environmental standards in a global economy.
<p>Element 2: Environmental Leadership</p>	<ul style="list-style-type: none"> • Explain the reasons for improving environmental and social performance. • Explain the importance of leadership with regards to an organisation's environmental performance. • Outline the importance of personal ethics and professional practice to the environmental practitioner. • Outline how the environmental practitioner can manage and maintain their levels of competence. • Outline how levels of competence can be managed by an organisation.
<p>Element 3: Environmental Management Systems & Emergency Planning</p>	<ul style="list-style-type: none"> • Explain the purpose, benefits, limitations and structure of an environmental management system. • Outline methods of presenting information on environmental management performance, including communication to stakeholders, and the use of benchmarking. • Outline the need for environmental policies, procedures and systems of work and how these would be implemented by an organisation.



	<ul style="list-style-type: none"> Outline the need for managing contractors' environmental performance. Outline the requirements of emergency plans for an organisation, including their development, monitoring and maintenance.
Element 4: Environmental Risk Evaluation & Control	<ul style="list-style-type: none"> Explain the principles of environmental aspect identification. Explain the principles of operational planning and control relating to the organisation's significant environmental aspects. Explain the techniques for evaluating environmental aspects arising from workplace activities. Outline the purpose of an environmental impact assessment and environmental statement in relation to large developments.
Element 5: Environmental Performance Evaluation	<ul style="list-style-type: none"> Explain appropriate indicators that may reflect an organisation's environmental management performance. Outline appropriate monitoring techniques and differentiate between active (pro-active) monitoring and reactive monitoring.
Element 6: Sustainability	<ul style="list-style-type: none"> Explain the principles of environmental sustainability. Outline the role of environmental corporate social responsibility and self-regulation. Outline the drivers for global adoption of sustainability.
Element 7: Waste Management	<ul style="list-style-type: none"> Explain the need for responsible waste management. Describe the benefits of waste management. Outline the requirements to monitor waste. Outline appropriate control strategies and measures for solid wastes.
Element 8: Managing Emissions to the Atmosphere	<ul style="list-style-type: none"> Outline the types of emissions to the atmosphere and the harm to the environment from specific pollutants.



	<ul style="list-style-type: none"> Outline the purpose of monitoring atmospheric emissions, including the practitioner's role, the sampling methods available and the situations in which each method would be used. Describe appropriate control strategies and measures for releases to the atmosphere.
Element 9: Managing Emissions to Water Environment	<ul style="list-style-type: none"> Outline the types of pollutants/effluents likely to be discharged to the water environment. Describe the purpose of monitoring effluent discharges and the measuring techniques used. Outline different potable water and wastewater treatment methods and the situation/s in which each method would be used. Explain the need for sustainable water abstraction. Outline the risks associated with flooding and appropriate control measures.
Element 10: Control of Environmental Noise	<ul style="list-style-type: none"> Explain the characteristics of noise and advise on the measurement and assessment of environmental noise levels. Outline control strategies and methods for the control of environmental noise.
Element 11: Hazardous Substances & Contaminated Land	<ul style="list-style-type: none"> Describe the environmental requirements affecting the supply, storage, use and transportation of hazardous substances. Outline the methods for the safe use and handling of pesticides. Outline the hazards with contamination of soil and groundwater and the options for remediation.
Element 12: Energy Use	<ul style="list-style-type: none"> Explain the advantages and disadvantages of different sources of energy. Explain the need for energy efficiency. Describe an energy monitoring strategy and the benefits and limitations of carrying out monitoring.



NDEM2 Unit Elements (Assignment)

Unit Element Name	Learning Outcomes
Element 1: Enforcement of Environmental Legislation	<ul style="list-style-type: none">• Explain the role of pollution prevention and control legislation and best available technique used for controlling pollution.• Describe the powers of inspectors, different types of enforcement action and their implications.
Element 2: Civil Liability	<ul style="list-style-type: none">• Outline the duties owed in common law by organisations and occupiers of land in respect of environmental pollution.• Explain the legal principles of decided cases and civil action.
Element 3: Pollution Prevention and Control Legislation	<ul style="list-style-type: none">• Explain the role and purpose of environmental permitting in relation to the control of environmental pollution.• Explain the relevant legal requirements for waste management.• Explain the relevant legal requirements for managing emissions to the atmosphere.• Explain the relevant legal requirements for the prevention and control of discharges to, or abstraction from, controlled waters.• Explain the relevant legal requirements applying to environmental noise and nuisance.• Explain the legal requirements affecting the storage, use and transportation of hazardous substances.• Explain the relevant legal requirements relating to contaminated land and pesticides.• Explain the relevant legal requirements relating to energy usage.