

## **VRQ LEVEL 3**

# **WASTE and RESOURCES MANAGEMENT**

### **Award – Overview**

The candidate must complete **six** Units

### **MANDATORY UNITS**

All candidates must complete **5 (five)** mandatory Units as follows:

#### **Unit 1 – Environmental Impact of Waste and Resources Management**

- Understand what is meant by sustainable waste management and the waste hierarchy
- Identify types of waste and arisings in the UK
- Understand the potential environmental and amenity impacts of Waste and Resources Management

#### **Unit 2 - Waste and Resources Management – Policy and Legislation**

- Understand the key stakeholders within the sector; their roles and interrelationships
- Understand which European/ UK legislation, codes of practice and guidance notes are relevant to waste and resource management facilities
- Understand what non-legislative drivers are affecting changes in Wastes and Resource Management practices
- Understand why waste needs to be treated or disposed of in ways other than through landfill

#### **Unit 3 - Permitting Requirements and Compliance in the Wastes and Resource Management Industry**

- Understand the requirements of planning and permitting legislation as applied to the Wastes and Resource management practices
- Understand the concept of Producer Responsibility and the requirements of Duty of Care and dealing with hazardous wastes
- Have an awareness of the roles of the regulators working with the wastes and resources management industry
- Understand different systems and procedures designed to ensure compliance with relevant legislation and to control environmental effects
- Understand operator responsibilities for data collection, reporting, storage and retention in relation to waste and resource management facilities

#### **Unit 4 - Health and Safety in the Waste and Resources Management Industry**

- Understand the general principles of Health and Safety
- Understand specific health and safety issues related to wastes and resource management industry site activities
- Know the procedures for the control of contractors and other site users
- Know safe working practices to control the use of plant and equipment on site

#### **Unit 5 - Technical Aspects of Managing Waste and Resources**

- Understand the concepts for different physical, chemical, biological and thermal treatment processes available in the UK
- Understand the technical, financial, political, planning and other barriers limiting the uptake of different technologies.
- Understand the importance of effective communication within the work environment including those relevant to but outside of the site boundaries
- Understand the principles and procedures for waste transfer

**Please see overleaf for the choice of optional Units**

## OPTIONAL UNITS

All candidates must complete **1 (one)** of the Optional Units as follows:

### **Unit 6A - Physical and Chemical Processing within the Waste and Resources Management Industry**

- Understand the implications of different collection and reception systems relating to physical and chemical treatment processes
- Understand the principles behind the science and engineering of the physical and chemical treatment processes
- Know the technical and environmental benefits, limitations and any potential problems that may arise from physical and chemical treatment processes.
- Know what emissions, products and residual waste are associated with the physical and chemical treatment processes

### **Unit 6B - Biological Processing within the Wastes and Resources Management Industry**

- Understand the implications of different collection and reception systems relating to biological treatment processes
- Understand the principles behind the science and engineering of the biological treatment processes.
- Know the technical and environmental benefits, limitations and any potential problems that may arise from biological treatment processes
- Know what emissions, products and residual waste are associated with the biological treatment processes

### **Unit 6C -Thermal Treatment Processing within the Wastes and Resources Management Industry**

- Understand the implications of variations in the waste types appropriate to thermal treatment processes and their inherent collection and reception systems
- Understand the principles behind the science and engineering of the thermal treatment processes
- Know the technical and environmental benefits, limitations and any potential problems that may arise from thermal treatment processes
- Know what emissions, products and residual wastes are associated with the thermal treatment processes