Open Awards Qualification Unit

This unit forms part of a regulated qualification.

1 Unit Details

Unit Title:	How the World is Powered
Unit Reference Number:	F/650/3627
Level:	Entry Level Three
Credit Value:	6
Minimum GLH:	50

2 Learning Outcomes and Criteria

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Know how individuals and communities can harness and use energy from natural sources	1.1 Identify the ways that energy from: • The Sun • Wind • Water may be harnessed for domestic use by individuals and communities
	1.2 Identify ways that energy from solar, wind and water power can be converted for use as power in homes and businesses
2. Know how energy producers harness energy and produce power	2.1 State how energy can be harnessed from: • Renewable • Non-renewable Natural sources for converting into power
	2.2 Identify how harnessed energy is converted into power
	2.3 Identify ways that energy producers generate electricity from a range of natural renewable and non-renewable sources
3. Know about the role of energy producers and the National Grid	3.1 Identify the role of energy producers in supplying energy to homes and businesses

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	3.2	Identify the role of the National Grid in the supply of power to homes and businesses
	3.3	Identify ways that power from the National Grid is delivered to homes and businesses
4. Know how generated electricity can be stored	4.1	Identify ways that energy and electricity are stored
	4.2	State how batteries store power
	4.3	Identify ways power is released from batteries
5. Know about the processes and materials involved in generating and distributing electricity	5.1	Identify processes required to convert harnessed energy into electricity
	5.2	Identify the materials and equipment required to convert harnessed energy into electricity
	5.3	Identify the risks and issues involved in generating and transmitting electricity
6. Know about household appliances that use electricity	6.1	Identify a range of common appliances that run on mains electricity
	6.2	Identify a range of common appliances that can be powered by battery
	6.3	Identify alternative power sources for common appliances that require electricity
7. Know about the risks and benefits of generating and using electricity	7.1	Identify the health and safety risks from: • Generating electricity • Using electricity • Overloading power sockets
	7.2	Identify the main benefits of using electricity to power homes and businesses
	7.3	Identify the main drawbacks of using electricity to power homes and businesses
	7.4	Identify the environmental impacts of using • Renewable • Non-renewable sources of energy production

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