

Title:	Carbon Awareness
Level:	1
Credit value:	1
GLH	10
Unique Reference Number:	L/650/0362
Aim:	The aim of this unit is to develop knowledge of the carbon footprint, the impact of global warming and how energy consumption links to carbon emissions.
Assessment	Project
Learning outcomes	
<i>The learner will:</i>	
1	Know about the carbon footprint.
Delivery content:	
<p>The aim of this learning outcome is to provide learners with knowledge of how an individual, an organisation and industry contribute to a carbon footprint, including actions that cause substantial carbon emissions. Learners will calculate their own carbon footprint using an online Carbon Calculator, identifying how they contribute to their own carbon footprint. Learners can identify different ways of combatting carbon emissions and will be able to define carbon offsetting and carbon neutral.</p> <p>The learner must:</p> <ul style="list-style-type: none"> • identify what contributes to a carbon footprint. • identify actions which cause substantial carbon emissions. • calculate own carbon footprint. • identify ways of combatting carbon emissions. • define 'carbon offsetting'. • define 'net zero'. 	
2	Know about the impact of global warming.
Delivery content:	
<p>The aim of this learning outcome is to provide learners with knowledge of global warming and what are the main contributors to it. Learners will identify the impacts of global</p>	

warming on the environment. Building on this knowledge, learners will consider how their local area contributes to global warming through industry and travel.

The learner must:

- Identify **main contributors to global warming**.
- Identify impacts of global warming.
- Identify actions that can reduce global warming.

3 Know how energy consumption links to carbon emissions

Delivery content:

The aim of this learning outcome is to provide learners with knowledge of different energy sources and how energy consumption impacts on carbon emissions and the environment. Learners will investigate a range of equipment used in the home and workplace and identify how use of such equipment can impact on energy consumption. Learners will understand why energy management is important at home, in the workplace and to the environment.

The learner must:

- identify **different sources of energy**.
- identify how the **type of equipment** used can impact on energy consumption.
- identify why **energy management** is important.
- identify the impact of energy consumption on carbon emissions and the environment.
- outline ways to **reduce the impact** of energy consumption on the environment.

Scope of Training

The Scope of Training identifies areas that must be covered during the delivery of this unit. This is the minimum that is expected but tutors are expected to include other areas, knowledge of which will benefit their learners, based on location, types of work available and from the tutors own professional experience.

Requirements	
Carbon footprint	Of an: <ul style="list-style-type: none"> • individual • organisation • industry

	<ul style="list-style-type: none"> • carbon cycle
Actions	<ul style="list-style-type: none"> • Travel • Manufacturing • Energy consumption
Calculate	<p>Online Carbon Calculators should be used to help learners identify how they contribute to the carbon footprint and different ways they can reduce their own carbon footprint.</p> <p>Carbon Calculator - ClimateHero CALCULATOR - Carbon Savvy carbonfootprint.com - Free to use online Carbon Calculators</p>
'Net zero'	<ul style="list-style-type: none"> • Paris Agreement - 2016 • Government target – 2050 • Emission reduction / removal • Kyoto protocol: what was it? Did it work? Why was it replaced? • Outcomes from the Conference of the Parties (COP22, 23, 24, 25, 26 etc.) – United Nations Action for Climate Change.
Main contributors to global warming	<p>Related to:</p> <ul style="list-style-type: none"> • travel • diet • energy usage • waste
Different sources of energy	<p>Including:</p> <ul style="list-style-type: none"> • fossil fuels • renewable • green • in the home • in the workplace • in travel and transport
Type of equipment	<p>Including:</p> <ul style="list-style-type: none"> • in the home • in the workplace
Energy management	<p>Learners should consider the following:</p> <ul style="list-style-type: none"> • individuals • organisations • industry • environment

Reduce the impact	<ul style="list-style-type: none">• Lowering temperature of buildings (homes, offices, manufacturing plant, etc)• Using public transport / car sharing / using low emission vehicles
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Scope of Assessment

Learners will complete a project that demonstrates their knowledge and understanding of carbon and the role it plays in global warming, covering:

- the carbon footprint
- the impact of global warming
- how energy consumption links to carbon emissions

Learners can use an online Carbon Calculator to calculate their own carbon footprint and will identify what contributes to a carbon footprint and how it can be reduced, focussing on their local area/region.

Where appropriate learners will use publicly available resources such as websites, news articles, publicity materials or reliable online videos such as YouTube videos to research the carbon footprint and the impact of global warming.