

Sustainable Energy and Renewable Technologies

Course Overview

The course will provide a broad understanding of the need for renewable energy, the renewable options available and the underlying principles. It provides underpinning knowledge that can be built on with further study into full level 3 renewable qualifications. The course is designed to develop the skills and competencies of the students in the following areas:

1. Understanding the issues around the use of fossil fuels and the implications for system design and specification. Exploring the history of our energy generation. Displaying an understanding of carbon release and the greenhouse gas effect on global warming.
2. Developing a broad understanding of the range of appliances available and the advantages and disadvantages of each system. Understanding the process of energy surveys and EPCs. Being able to advise customers on the renewable energy choices available to them.
3. Demonstrating the ability to follow manufacturers' instructions and applying them to installation, commissioning and maintenance tasks. Completing the task sheets in the practical portfolio.
4. Demonstrating an understanding of the physics and processes underpinning heat generation. Completing activities on competent person schemes.

What you will learn

The course is designed to develop the skills and competencies of the students in the following areas:

- Module 1 Introduction to Fossil Fuels
- Module 2 Introduction to Global Warming
- Module 3 Introduction to Climate Action
- Module 4 Air Source Heat Pumps Fundamental Concepts
- Module 5 Solar Thermal Fundamental Concepts
- Module 6 Solar PV System Fundamental Concepts

Entry Requirements

It's designed for adults aged 19+ who want to enhance their knowledge and skills in green practices within their organisation or business. The course complements experience in various fields, including plumbing, electrical, heating and ventilation, and renewable energy.

Course Progression

The course will provide a broad understanding of the need for renewable energy, student can work as renewable energy engineers, sustainability consultants, project managers, or researchers, advancing in roles focused on energy efficiency, policy development, environmental impact, and clean energy innovation across industries. Take a look at our other short courses to enhance your learning.

What Happens Next

Apply online via the College website. You will be contacted to attend an interview if required, or you will be sent a conditional offer according to the entry requirements for the course. You will then be invited in to enrol for your chosen course of study. For enrol and pay courses: Once you have decided to take the course, you need to fill in a short learner details form online and pay the course fee. Once you have done this, you will receive an electronic confirmation of enrolment and payment.

Course Details

Course Code	P00764
Start Date	Various
Study Hours	Part Time
Duration	6 weeks
Campus	Freemen's Park Campus
Level	2

[Apply Here](#)