

Title:	Unit 2. Assessing Dwellings for Retrofit
Level:	5
Credit value:	1
GLH	8
Unique Reference Number:	K/650/2694
Aim:	The aim of this unit is to provide learners with the knowledge and understanding of the assessment of dwellings for retrofit which will include the energy survey and assessment process, methods for assessing energy efficiency and the factors that affect energy performance. Learners will understand the role of a Retrofit Assessor.
Assessment	Assessment of this unit will be through the completion of a mandatory end of qualification knowledge test.
Learning outcomes	
<i>The learner will:</i>	
1. Understand the principles of assessing the energy performance of dwellings.	
Delivery content:	
The aim of this learning outcome is to provide learners with the knowledge and understanding of the principles of assessing the energy performance of dwellings.	
The learner must understand:	
<ul style="list-style-type: none"> • The concepts of heat loss, heat gain and heat balance and how they are estimated in an energy performance assessment. • The concepts of air infiltration, air leakage, airtightness and air permeability. • How internal heat gains are estimated in an energy performance assessment. • The concepts of heating efficiency and responsiveness. • The purpose of a standard occupancy pattern and why it is needed. • The energy performance calculation procedure. 	
2. Understand methods of assessing the energy efficiency of dwellings.	
Delivery content:	
The aim of this learning outcome is to provide learners with the knowledge to understand methods of assessing the energy efficiency of dwellings.	
The learner must understand:	
<ul style="list-style-type: none"> • The different methods and benefits of assessing the energy efficiency of dwellings. 	

<ul style="list-style-type: none"> • The energy survey and assessment process. • How low airtightness results can have a meaningful impact on assessment.
3. Understand additional information to be included in an assessment of a dwelling for retrofit.
<p>Delivery content:</p> <p>The aim of this learning outcome is to provide learners with the knowledge to understand the additional information to be included in an assessment of a dwelling for retrofit.</p> <p>The learner must understand:</p> <ul style="list-style-type: none"> • Contextual issues that should be considered when assessing dwellings for retrofit. • How planning and site constraint issues can be assessed. • How the construction and condition of a building can be assessed. • How the objectives of the owner or occupier, constraints and budgets can be included in the assessment.

Scope of Training	
<p>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.</p>	
Requirements	
Methods of assessing the energy efficiency of dwellings	<ul style="list-style-type: none"> • BRE Domestic Energy Model BREDEM • Passive House Planning Package (PHPP) • Standard Assessment Procedure (SAP)
Contextual issues	<ul style="list-style-type: none"> • Dwelling’s construction (Conventional, Traditional, Protected, System-built, High rise), age, condition, suitability for improvements, planning constraints. • If the dwelling to be assessed is of traditional construction, an assessment of significance shall also be carried out in accordance with the guidance in BS 7913.
Owner objectives	<ul style="list-style-type: none"> • Reduce energy demand • Reduce energy costs • Reduce carbon footprint • Provide a healthy living environment