

Low Carbon Energy Assessor - Competencies

Element A Being a Low Carbon Consultant	
<p>Performance Criteria</p> <p>You must be able to:</p> <ol style="list-style-type: none"> 1. Advise clients on reasons for reducing carbon emissions and the impacts of energy efficiency 2. Comply with the CIBSE code of practice and sustainability policy 3. Comply with the requirements of the Low Carbon consultants register 	<p>Knowledge and Understanding:</p> <p>You must know and understand:</p> <ol style="list-style-type: none"> a. The causes of climate change b. The likely impacts of climate change c. How buildings use energy and the impacts d. The principles of good design and how to take an integrated design approach e. How to use CIBSE Guide F in the design and operation of a building f. The details of the CIBSE code of Practice and the Sustainability Policy g. The details of the Low Carbon Consultants register and how to maintain your registration.

Element B The Requirements of Part L of the Building Regulations – new buildings	
<p>Performance Criteria</p> <p>You must be able to:</p> <ul style="list-style-type: none"> a. Advise clients on the requirements of Part L of the Building Regulations as they relate to new buildings b. Collect the relevant information to check the design against the guidance in the Approved Document c. Advise clients on the ways of demonstrating compliance with the Regulations d. Advise clients on the ways on reducing the carbon impact of the building 	<p>Knowledge and Understanding:</p> <p>You must know and understand:</p> <ul style="list-style-type: none"> a. The structure of the Building Regulations b. The guidance given in Approved Document L2A and the supporting documentation c. How the National Calculation Methodology and its implementation in SBEM is used to generate the Target CO₂ emission rate (TER) and the Building CO₂ emission rate (BER) d. How to set a target reduction in terms of the Part L requirements e. Know the difference between SBEM and dynamic simulation models and when to use them f. How to check a BRUKL report for compliance g. How to check the limits on design flexibility h. How to check compliance with the guidance on limiting solar gains i. How to check compliance with the guidance on improving quality in construction j. How to check compliance with the guidance on the requirements for a whole building pressurisation test k. How to check compliance with the guidance for the provision of a building user log-book and energy metering strategy l. How to complete the ADL2A compliance checklist

Element C The Requirements of Part L of the Building Regulations – existing buildings	
<p>Performance Criteria</p> <p>You must be able to:</p> <ol style="list-style-type: none"> 1. Advise clients on the requirements of Part L of the Building Regulations as they relate to existing buildings 2. Advise clients on the ways of demonstrating compliance with the Regulations relating to refurbishment projects 3. Collect the relevant information to check the design against the guidance in the Approved Document 4. Advise clients on the ways on reducing the carbon impact of the building 	<p>Knowledge and Understanding:</p> <p>You must know and understand:</p> <ol style="list-style-type: none"> a. The guidance given in Approved Document L2B and the supporting documentation b. How to determine which elements of the guidance to apply (extensions, material change of use etc.) c. How to check and comply with the requirements for consequential improvements d. How to check and comply with the requirements for a building extension e. How to check and comply with the requirements for a material alteration f. How to check and comply with the requirements for a material change of use g. How to check and comply with the requirements for thermal elements h. How to check and comply with the requirements for a controlled fitting i. How to check and comply with the requirements for a controlled service j. How to check and comply with the requirements for the provision of information k. How to set an enhanced standard for works in existing buildings using Guide F

Element D
The Requirements of the Energy Performance of Building Regulations – Energy Performance Certificates, Display Energy Certificates and air conditioning inspections

Performance Criteria	Knowledge and Understanding:
<p>You must be able to:</p> <ol style="list-style-type: none"> 1. Advise clients on the requirements of the Energy Performance of Buildings Regulations as they relate to new and existing buildings 2. Produce and lodge Energy Performance Certificates using suitable approved software 3. Explain the requirements for Display Energy Certificates and Air conditioning Inspections to clients 	<p>You must know and understand:</p> <ol style="list-style-type: none"> a. The requirements of the Energy Performance of Buildings Regulations as they relate to new and existing buildings b. The requirements of the approved software tools for production of EPCs c. The rules for accredited energy assessors and for the lodgement of certificates through the accreditation schemes d. The requirements and procedures for Display Energy Certificates and Air conditioning inspections