



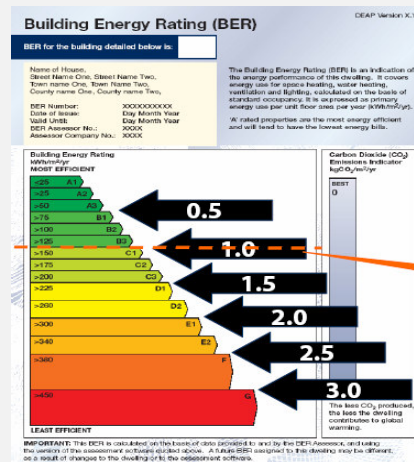
Non-domestic Building Regulation Part L Compliance & BER Certification using iSBEM or IES<Virtual Environment>.

Blended Training Programme

COST: €1325 per candidate

The Energy Performance of Buildings Directive (EPBD) requires that minimum energy standards are set for new buildings and a Building Energy Rating (BER) is required at point of sale or rent for new and existing buildings.

Minimum energy standards are being set in Part L of the Building Regulations. Part L of the Building Regulations for non-dwellings is being significantly altered from July 1, 2008. Building Energy Ratings (BERs) will be calculated using a new national methodology based on the Simplified Building Energy Model (SBEM) that is used in the UK.



Key Dates:

July 1, 2008.

BER required for new non-residential buildings for which planning permission is applied for after this date.

January 1, 2009.

BER required for existing buildings when offered for sale or rent

About this course

The new energy regulations bring an immediate need for industry professionals to achieve competence in the operation of the new Non-domestic Energy Assessment Procedure (NEAP) using the Simplified Building Energy Model (SBEM).

This blended training programme combines live classroom and online learning tutorials to enable construction professionals to be trained in this important subject.



The blended training programme consists of:

- Classroom tutorials and practice (1 day).
- Software operations e-training (includes options for online attendance or attendance in person at Engineers Ireland).
- 10 hours of self study including:
 - Review of sample energy assessments for existing building types.
 - Energy assessment assignments & feedback.
- Active question and answer discussion forums with expert moderation.

Course Aim

To provide candidates with the theory and operational skills for applying the Simplified Building Energy Model using either iSBEM or IES<Virtual Environment> to produce BER certificates and evaluate new and existing buildings for Part L compliance.

Course Objective

On completion of the course candidates will have a full understanding of SBEM as implemented in the Irish National calculation methodology and will be able to:

- Evaluate new buildings for Buildings Regulations Part L compliance.
- Pass the national exam for non-domestic BER Assessors using iSBEM or if taking the IES software option, pass their <VE Compliance> exam.
- Issue BER certificates for new and existing non-domestic buildings subject to registration with SEI.
- Appreciate the impact of applying NEAP\SBEM to construction projects.

Prerequisites

In addition to holding a level 8 qualification in an engineering related discipline, candidates should have very good pc skills and be familiar with operating software applications for engineering projects.

Technical: A broadband connection with a good specification of PC or laptop is required to take the online training. Your internet browser should be MicroSoft Internet Explorer 6 or later.



Who should attend?

The course is aimed at professionals currently involved in design, build, project management and general commercial aspects of construction.

Course Outline

- Overview of European Performance of Buildings Directive (EPBD) and Part L of the Building Regulations
- Concept of “notional building”
- The NEAP National Calculation Methodology
- Basis of calculations in NEAP (using SBEM)
- Input data required and zoning rules for the building
- Entering building geometry and constructions for roofs, walls, floors etc.
- Selecting the appropriate HVAC systems, lighting and lighting controls.
- Renewable energy options (Wind Generators, PVS Generators, Solar Energy Systems).
- Carrying out Building Regulations check. Calculation of asset rating.
- Accessing and understanding the outputs and the approved documents.

Examination & Certification

As preparation for the national exam for non-domestic energy assessors course participants are required to complete assessments that map to the national exam format.

The course is approved for CPD accreditation by Engineers Ireland.

Instructor Bio

Dr. Ken Beattie C.Eng., MIMechE, MCIBSE



Ken is a well recognized energy management expert in Ireland and lectures on the subject in the Dublin Institute of Technology, Faculty of Engineering, Bolton Street.

Ken holds a Masters Degree in Energy Simulation Buildings, a Postgraduate Diploma in Environmental Management and an Honours Degree in Engineering from Strathclyde University. He has also obtained a PhD from Sheffield University in Sustainable Building Design using Simulation. Ken has written numerous papers on the subject of energy management which he has presented at World Congress events.

Costs: Cost of course per participant is €1,325 per participant.

- This cost includes the IES <BER Assessor> e-training session for participants choosing the IES software option– delivered by an IES consultant.
- Online learning service includes 12 months access to materials.

Booking: For more information or to book this course contact ELSOL:

- by email at training@elsol.ie
 - by phone at 076 6709 832
- or
- reserve your place [online](#).

The course can also be booked directly with Engineers Ireland:

- by email at cpdtraining@engineersireland.ie
 - by phone at 01 665 1328
- or
- reserve your place [online](#).

IES Users: For candidates choosing the IES software option, the cost of the online IES <BER Assessor> e-training session of €160 is included in the course price, which is the key software training existing users of the <Virtual Environment> will need. Payment for this section is made directly to IES and deducted from the course list price.

New users of IES's <Virtual Environment> software should contact IES in advance of attending the course to discuss what additional training they require. Any such training will need to be undertaken before completing this course.

Contact IES at +353 (1) 875 0104, ber@iesve.com