



Energy Assessment for Commercial & Public Buildings

Brian Scannell

Managing Director
National Energy Services Ltd.





NES Accreditation Options

- Energy Performance Certificates (EPC) for commercial buildings
 - Level 3 existing buildings
 - Level 4 existing and/or new buildings
 - Level 5 existing and/or new buildings
- Display Energy Certificates (DEC) for public buildings





NES Routes to Accreditation

- Qualification
 - ABBE Level 3 & 4 EPC for commercial buildings
 - ABBE Level 3 DEC for public buildings
 - Other awarding bodies are developing qualifications
- Accreditation of Prior Experiential Learning (APEL)
 - Notionally available for all levels of accreditation
 - In practice, suitable prior experience limited
 - EPC Level 4 & 5 – experience with SBEM or DSM
 - DEC – energy managers and facilities managers
- Practical distinction is limited





NES Training & Assessment

- Training required depends on prior knowledge
 - Calculation methodology – SBEM or DSM
 - HVAC – key area of difference between level 3 & 4
 - Construction
 - Lighting
- Assessment – for qualification or APEL
 - Must satisfy National Occupational Standards
 - Typically requires assessment of THREE reports
 - EPC plus recommendations
 - DEC plus advisory report





NES Example Prices

Item	Price (exc. VAT)
NHER DEA training & assessment to ABBE L3 CEA qualification	£2,725
SAVA HI training & assessment to ABBE L4 CEA qualification (L3 plus upgrade to L4)	£4,420
NHER member experienced energy manager training & assessment for APEL accreditation to issue DEC	£1,250
NHER / SAVA annual membership	£250
Report registration fee (exc. Landmark) – L3 EPC	£25
Report registration fee (exc. Landmark) – L4 EPC	£40
Report registration fee (exc. Landmark) – DEC plus AR	£20





NES Our progress to date

- CEA Level 3
 - Approximately 200 candidates for some training
 - Approximately 150 registered for assessment
 - Predominantly qualified HI or DEA
 - First group of chartered surveyors expected this week
- CEA Level 4 upgrade
 - HVAC training started
 - Part L2 training module and assessment imminent
- DEC
 - Experienced practitioner pilot running
 - Qualification route launched this week





NES Issues

- Confidence issues
 - Risk of delays, u-turns and grandfathering
 - Uncertainty over market size and demand
 - Concerns about over-capacity
 - Unknown routes to market
- Technical issues
 - New assessment methodologies (SBEM/OR Calc)
 - Lack of conventions
 - Limited field trials





NES Predictions

- Policy
 - Retain the 1st October implementation date, but
 - Extend the transitional arrangements SI 2008/647
 - Specific transitional arrangements for DEC?
- Market
 - Increased training & assessment activity but capacity will constrain over-supply
 - Limited CEA capacity will continue into 2009 and professional service requirements will influence fees
 - PBEA (DEC) capacity will grow as EP qualify, but many public buildings will not comply until well into 2009





NES Predictions cont.

- EPC
 - New user interfaces / applications
 - Separate accreditation for new-build and existing
 - Standardised conventions to improve consistency
 - Improve sensitivity of calculation methodology
 - Increased complexity of data collection
- DEC
 - Benchmarks will be a focus of attention
 - Increased complexity to improve sensitivity
 - Some adoption of DEC outside mandatory sectors



NES Summary

- Training, assessment & accreditation in place
- All very last minute, but it is happening
- Reasonable uptake but supply likely to be tight
- Delay unlikely but smoothing measures likely
- Particular issues with DEC
- Pressure to improve methodology will be high
- NES training & assessment prices attached





CEA Level 3 Training & Assessment

ABBE Level 3 Diploma in Non Domestic Assessment

Training component	Days	Type
SBEM basics	2	Workshop – 20 maximum
Lighting systems	1	Classroom
HVAC (Level 3)	1	Classroom
Constructions and built form	1	Classroom
Practice survey	1	Survey in real office
Total training	6	

Total package	Days	Price (non-members)	Price (NHER/SAVA members)
Total (exc. Unit 1)	6	£3,275	£2,725
Unit 1 assessment (if req.)	1	£500	£400





CEA L3 to 4 upgrade Training & Assessment

ABBE Level 4 Diploma in Non Domestic Assessment

Training component	Days	Type
HVAC (Level 4)	1	Classroom
Part L2 – New Build	Equivalent to 2	Home study
Total training	3	

Total package	Days	Price (non-members)	Price (NHER/SAVA members)
Total Dip NDEA	3	£2,000	£1,695





PBEA Level 3 Training & Assessment

ABBE Level 3 Diploma in Display Energy Certificates

Training component	Days	Type
Introduction to Operational Ratings and Advisory Reports	2	Classroom
Practice survey	1	Survey in real public building
Total training	3*	

* Candidates will be expected to have knowledge of commercial lighting systems, basic and advanced HVAC, and construction/built form. If candidates do not already possess this knowledge we recommend our CEA technical modules to meet this requirement

Total package	Days	Price (non-members)	Price (NHER/SAVA members)
Total (exc. unit 1)	3	£2,200	£1,950
Unit 1 assessment (if req.)	1	£500	£400





PBEA Level 3 Training & Assessment

Direct Entry route for experience practitioners

Training component	Days	Type
Intensive guide to Operational Ratings and Advisory Reports	1	Classroom
Total training	1*	

* Candidates will be expected to have knowledge of commercial lighting systems, basic and advanced HVAC, and construction/built form. If candidates do not already possess knowledge in these areas we recommend our CEA technical modules to meet this requirement

Package	Days	Price (non-members)	Price (NHER/SAVA members)
Training & assessment package	1	£1,600*	£1,250

* Price includes £100 application and first £250 per year membership fee for the NHER Accreditation Scheme





NES Technical Modules for PBEA

Training component	Days	Type
Lighting systems	1	Classroom
HVAC (Level 3)	1	Classroom
Constructions and built form	1	Classroom
HVAC (Level 4)	1	Classroom
Total training	4	

Pricing	Days	Price (non-members)	Price (NHER/SAVA members)
Per training day		£300	£250
Package price	4	£1,100	£880

