

CUSTOMER INFORMATION SHEET

BIO-MASS

NICEIC Package Includes:

Training Materials, Powerpoint, Assessment Materials

Code	Core Assessments	Practical provisions page(s)
BM 01	Biomass solid fuel (domestic)	See Appendix 1

Introduction

All NICEIC paperwork is designed to offer maximum flexibility, maintain ease and fluidity of the assessment process and to minimise the amounts of paperwork required.

Each centre is unique in the way it presents its practical provision; as a result the paperwork may not be ideally formatted with regard to running order or task content. It is acceptable for the running orders to be altered slightly to 'better suite' the provision and layout at an individual centre; such changes must be minimal and alterations made only with the **written permission of NICEIC Certification** (this excludes any appliance identification numbers and so on which may be added to the paperwork without permission being sought).

Certificate of Competence

A certificate of Competence will be issued if a candidate can meet the requirements laid down within this document. Certificates of Competence will be valid for the time period specified on.

Biomass

Wood logs, Wood chips, Wood briquettes, Wood pellets.

Candidate Pre-requisites

The candidate is required to hold:

- N/SVQ Level 2/3 in Plumbing or equivalent earlier certification that provides evidence of competence; or
- N/SVQ Level 2/3 in Heating and Ventilating (Domestic Installation) or equivalent earlier certification that provides evidence of competence; or
- N/SVQ Level 2/3 in Heating and Ventilating (Industrial and Commercial Installation) or equivalent earlier certification that provides evidence of competence; or
- N/SVQ Level 2/3 in Oil-Fired Technical Services or equivalent earlier certification that provides evidence of competence; or
- N/SVQ Level 2/3 in Gas Installation and Maintenance or equivalent earlier certification that provides evidence of competence.

In addition, (if the competence is not included in the above qualifications) current certification in the following:
See Appendix 1a

- Water Regulations/Water Byelaws (WRAS or equivalent)
- Unvented Domestic Hot Water Storage Systems (not required for HP or BM)
- Energy Efficiency for Domestic Heating (C&G 6084 or equivalent)

Note: Stand alone Vocationally Related Qualifications (technical certificates) are not acceptable as an alternative to the NVQ awards listed above. Candidate Pre-requisites.

Appendix 1: BM Practical Provision

The assessment area must simulate a real working environment, i.e an environment in which real work activities take place under real working conditions in keeping with real commercial situations. The assessment task must be undertaken using fit-for-purpose tools and equipment, full-size components. The physical resources and practical assessment facilities must be maintained in a fit for purpose condition and updated as directed by NICEIC certification. A small number of photographs may be used to identify or confirm knowledge where agreed with NICEIC.

	Initial
Task instructions and tools are available to each candidate.	✓
Appropriate sets of manufacturers' instructions and normative reference documents.	✓
Pellet boiler, working installed system connected to an emitter circuit heat dump, rads or UFH.	✓
As a minimum the facility for the candidate to make a connection, of the type used for connecting the boiler unit to the hydraulic emitter circuit.	✓
A provision to enable the candidate to identify the solid fuels and state their typical uses. A sample of:	
• Bituminous (house) coals	✓
• Bituminous coal briquettes	✓
• Natural smokeless fuels (Anthracite)	✓
• Manufactured smokeless fuels	✓
• Wood logs	✓
• Wood chips	✓
• Wood briquettes	✓
• Wood pellets	✓
A provision to enable the candidate to confirm the suitability of a selection of marked and unmarked ventilation grilles:	
• to determine the free area	✓
• Incorrect Grille/ vent construction	✓
• Flyscreen not fitted/ correctly sized	✓
• Incorrect Projection through walls	✓
• Incorrect fixing arrangements	✓
• Suitable	✓
A diagram or provision for the candidate to confirm the correct positioning of grilles and ventilators to provide combustion air to open flued solid fuel appliances.	✓
A diagram or provision to enable the candidate to confirm the parts of a flue system from an existing installation:	
• Grate	✓
• Throat	✓
• Terminal	✓
A provision to enable the candidate to confirm the type of open flue system installed:	
• Brick masonry chimneys without liner	✓
• Brick masonry chimney with liner	✓
• Rigid flues double skin	✓
• Rigid flues single skin	✓

	Initial
A provision to enable the candidate to confirm the suitability of the chimney/ flue for use with an open flued solid fuel appliance:	✓
• Flue chimney soundness and construction	✓
• Flue materials	✓
• Flue draught stabiliser (if fitted)	✓
• Appliance connection to flue/chimney	✓
• Flue proximity to combustible materials	✓
• Flue length and routing – internal/external	✓
• Flue jointing methods and materials	✓
• Flue supports	✓
• Flue inspection points are provided where required	✓
• Flue connection to termination point	✓
• Selection of correct chimney pot/ approved cowl	✓
• Correctly positioned terminals	✓
• Incorrectly positioned terminals	✓
A diagram or provision to enable the candidate to confirm the suitability of the hearth provided for use with solid fuel appliances.	✓
A provision to enable the candidate to confirm the suitability of the flue system prior to testing.	
• Coring ball test	✓
• Smoke test	✓
• Carry out a flue flow tests	✓
• Carry out a spillage tests	✓
• Carry out an appliance air leakage tests	✓
A provision to enable the candidate to prove competence to:	
• Service and maintain biomass appliances (as listed on the ACL)	✓
• Diagnosed faults in biomass appliances (as listed on the ACL)	✓
• Rectify faults in biomass appliances (as listed on the ACL)	✓
• Commission biomass appliances (as listed on the ACL)	✓
• Install biomass appliances (as listed on the ACL)	✓
Flue draught gauge.	✓
Scales to weigh biomass (to an accuracy of $\pm 2g$).	✓
PPE to include goggles and gloves and any other items identified as required by the manager of the assessment centre.	✓
Appropriate handover documentation that must align with the requirements of the Microgeneration Certification Scheme (MCS) Microgeneration Installation Standard.	✓
Facility to securely store all assessment documentation for a period of 6 years from the certification date.	✓