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Competent Persons Scheme,& Microgeneration Certification Scheme

Guidance for Applications



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Introduction

APHC Certification Limited as a certification body, accredited to BS EN ISO 17065:2012 by UKAS to certify your businesses as complying with the requirements of Competent Persons Schemes & Microgeneration Certification Scheme.

Our aim is to provide a transparent, fair and robust certification that provides your consumers, local authorities, government and other involved bodies with the assurance that your business operates to the high standards and demands expected of appropriate codes, regulations and standards.

This information document details the evidence requirements you will need to provide as part of your application, it is vital that you read and understand the information contained within it. If you cannot provide a piece of evidence required, we may not be able to provide approval, or your application may be delayed.

The document is broken down into several sections; the application process, evidence requirements for Competent Person & MCS. The document then goes on to provide you with information concerning field assessments and non-compliance issues.

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The Process of Obtaining Certification

There are three main elements to the application process,



Application Process

To commence the certification process, the application form must be completed in full and provided to APHC Certification, with copies of the businesses;

- Public Liability Insurance Certificate
- Employers Liability Certificate (if employing individuals),
- Letterhead or other business stationery
- Certificates as evidence of engineer's competence, as indicated on page 5.

To help you, the following pages provide additional information on completing the Application Form for your business.

Page 1



The first page of the application form will allow you to provide the necessary business information we are required to collect.

The first block is used to indicate which scheme your business requires, it may be Competent Persons Scheme, Microgeneration Certification Scheme or all.

You will need to indicate the type of business and include the company registration number, if applicable, along with the number of years the business has been trading.

For each qualified engineer identified, you will need to provide evidence of their competence on page 3 of the application form. We have included a list of recognised certificates and qualifications in appendix 1 of this guidance.

The business must have an appointed Certification Scheme Officer who is responsible for compliance with the scheme rules and requirements.

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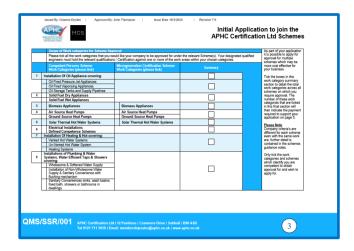
It is important that you read and understand all the documents provided. Once satisfied, please confirm your acceptance and understanding by placing a tick in the appropriate boxes.

The nominated person within the business must sign the form, indicating that they have read and understood the above documents.

If you are applying for MCS, you must be a member of an Approved Consumer Code Scheme and provide a copy of your certificate.

Page 3

The table allows you to identify the work categories your business requires certification for, against the scheme or schemes required. It is important to consider each work category carefully, if you do not carry out work within that category, <u>do not</u> apply for certification against it, it will delay your application and you may incur additional changes. It is far easier to extend scope later.



 ${\it Example of completing the 'Scope of work categories for scheme approval' section.}$

ABC Plumbers require scheme approval for Ground Source Heat Pumps, Unvented Hot Water, and Wholesome Cold Water Supply under CPS. To install microgeneration technologies, under MCS, the installer must be certified to install these measures under Microgeneration Certification Scheme.

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We now need to identify the levels of competence for each engineer, against the work categories you selected on page 3.

You will need to photocopy this page and complete it for each of engineers that needs to notify or sign off work as complete.

When returning the application form you must provide copies of certificates to provide evidence of an engineer's qualification.

If an engineer does not have a formal qualification, then it may be possible to be assessed against the competence requirements for the scheme(s) using the APHC Certification Ltd. Existing Worker Route plus additional short course assessment(s) in appropriate areas. Further information is contained in appendix 1 of this document.

To apply for assessment through the APHC Existing Worker Route, please contact APHC Certification Ltd. on 0121 711 5030.

Going back to our example, ABC plumbing has an engineer who can prove competence in the all the areas within the scope of work categories applied for.

The business will provide copies of qualification certificates for;

- NVQ Level 3 Plumbing
- BPEC Heat Pumps Certificate
- BPEC Water Regulation Certificate
- BPEC Unvented Hot Water Certificate

These will meet the requirements of the qualifications listed in Appendix 1

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Page 5



It is important that you have completed the Work Categories section on page three and, the third column, which is used to determine the total fees payable.

The section explains in detail how payments are made.

An example of fees is shown, for our example applicant, ABC Plumbing.

In total they have three work categories, across two schemes.

In addition, they must pay the MCS Registration Fee

They have chosen to pay the application fee and MCS Annual License Fee by credit card.

Page 6



If can choose to pay your membership by monthly installments via direct debit, this mandate will also be used to take payments for your notifications on a monthly basis. Complete the form and return with the rest of the information and our account department will do the rest.

It is important that you understand the Direct Debit Guarantee. We would suggest you copy or tear off the Guarantee and keep it for your records.

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Desk Based Evaluation

We will now look at the documented evidence in support of your application against the criteria laid down by the Scheme. This will include key business documents such as operative qualifications, quality assurance systems and training records, depending on the scheme your business needs. This evaluation is undertaken at our office in Solihull. You do not need to be present at this evaluation.

To ensure that we have all the evidence needed to process your application through the desk-based process, we will ask you to you send key documents and information into us. You do not need to send all the information with your initial application, only information requested on the application form. We will contact you and let you know what is required and by when as you go through the certification process.

In some cases it may be that the business does not have all the information to hand or needs to do further work to meet the scheme requirements, do not worry, we can pause the application process for the business to develop and implement the requirements.

Once all the documentation is received, we will carry out a desk-based evaluation of all evidence received, if a piece of evidence is outstanding or does not meet the criteria, then we will write to you, explaining what has to be done.

The Field Based Assessment

When the desk-based Evaluation is complete, we will contact the business to arrange a suitable time for a field assessment. Depending on the scheme, we will advise you on the range and type of work to be seen, it may be necessary to arrange a number of visits across a few of sites within close proximity to see the full range of work activities within the application.

The field assessment involves one of our Assessors visiting your premises (Head Office Visit), this is where the Management System you summited for evaluation is observed to look at how it is applied to the everyday work activity. You will need to have a representative present at this part of the assessment, and it takes place at your business address.

On the same day, the Assessor attends an installation with the engineer who is responsible for the installation (Field Assessment). This will check the job for compliance for both the management system being applied to the job and will also check the technical elements of the installation against building regulation, standards and codes of practice along with scheme requirements.

During the assessment, the assessor will ask questions about how the work was carried out, and sample site documentation, for example;

- Job/Contract information
- Appropriate reference documents British Standards, manufacturer's instructions etc
- Health and safety systems
- Check all testing and commissioning equipment is available as required
- Look at all aspects of the installation, components, pipework
- Observe testing and commissioning activities as required

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For all systems, the field assessor will ensure that the following areas can be demonstrated:

- The correct installation documentation is available for operatives when they are undertaking work.
- Be able to show compliance when undertaking required preparatory work.
- Be able to show compliance when testing and commissioning.
- Be able to show compliance when handing over.

During the assessment the assessor will check various aspects of the installation and record what has been seen. Once the assessment has been completed, the assessor will show the nominated person of the business the assessment documentation, explaining any non-conformance issues.

On completion of the site inspection, the field assessor will return all documentation back to APHC Certification Ltd. offices with the assessor findings. If all the requirements of the scheme have been met, then application will be put forward to the certification manager for approval.

In the event of a non-conformance, you will be informed of any improvement actions and agree a plan to put right any minor issues, this may delay certification. In some cases, major non-conformances may require an additional visit to ensure corrective actions have been taken; this will incur additional costs to the business.

NOTE: in line with our cancellation policy, APHC Certification will charge the full assessment fee if you cancel or postpone the visit less than 5 days of the agreed assessment date. A further Assessment fee will become due for any subsequent assessment appointments.

Should the visit location be greater than 25 miles or 45 minutes travelling time from your head office location an additional charge will be made. You will be invoiced separately for this additional time should it occur.

Scope of Your Application

APHC Certification Ltd will assess your company against what you have applied for (The Scope). It is, therefore, important to carefully consider the scope of approval the business requires. It is always possible to extend the scope of approval, later on, as the business demands and needs change.

Certification and Listing

Once we have completed the assessment against the relevant standards, and all non-conformities have been closed off, APHC Certification Ltd will provide the installation Company with all relevant documents for signing. Once returned the relevant scheme Certificate will be issued detailing the scope of certification to the relevant standards.

We will also provide relevant certification numbers to the relevant schemes. The Certificate will still remain property of APHC Certification Ltd.

The details of the installation companies are then passed to the relevant scheme bodies.

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Complaints and Appeals

In the unlikely event you feel that the business may have been unfairly treated, APHC Certification Ltd. operate a transparent and independent complaints and appeals process. Please contact APHC Certification Ltd. for further information on making an appeal or complaint.

All appeals and complaints are reviewed by in independent group and its decision is upheld by APHC Certification Ltd.

Extension to Scope

For applicant and certificated companies that wish to extend the scope of measures for what they wish to install, please call the Certification team on 0121 711 5030 or email certification@aphc.co.uk and a member of the team will send out a copy

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Evidence required for Competent Person Schemes and Microgeneration Certification Scheme

Ref	Scheme Requirement	APHC Ref	Documentation Required	CPS	MCS
	Company	4	Public Liability Insurance - £2 Million	✓	✓
	<u>Insurance</u>	6	Employer Liability Insurance - £5 million (Not applicable to Sole Traders)	√	√
MCS001-1 v3.1:2017 MCS001-2	Company Documentation	14	Consumer Code Scheme Membership Certificate – Current copy at time of application		√
v3.1:2017		16	Company Gas Safe Certificate (for Gas Condensing Boiler Only)		
CoA		21	MCS Certificate (if with another Certification Body)		✓
		3	Financial Probity Check – Positive Risk Disk check and approval by Senior Management/Accountant	✓	✓
MCS001-1 v3.1:2017 MCS001-2	Company Health and	10	For all companies; Sample of Risk Assessments	✓	✓
v3.1:2017	<u>Safety</u>	11	Sample of COSHH Assessments	✓	✓
CoA		13	Evidence of an Accident Reporting System	✓	✓
			CHAS Membership Certificate (alternative)		✓
		12	For companies of over 5 employees; Health and Safety Policy For further information, please refer to HSE Guide – Health and Safety Made Simple at the following link; http://www.hse.gov.uk/pubns/indg449.pdf	✓	✓
MCS001-1 v3.1:2017 MCS001-2 v3.1:2017 CoA	Complaints Policy & Procedure	63	 Policy - stating how the company aims to handle complaints in a positive way as part of its internal review and preventative and corrective actions and its approach to continual improvement. Procedure - detailing how a complaint is; received by the company who is responsible for the complaint? recording of the complaint how the complaint is investigated Notification of complaint and its outcomes to external bodies such as APHC CERTIFICATION LTD. Ltd. 		✓
			 Method Record/Log detailing; Complaint Number Responsible Person Nature of Complaint Date Received Date Closed Job Number Customer Summary Description Summary Resolution 	✓	✓

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Ref	Scheme	APHC	Documentation Required	CPS	MCS
	Requirement	Ref			
MCS001-1 v3.1:2017	<u>Installer</u>	65	Policy - stating how the company aims to receive enquiries in a		
MCS001-2	<u>Arrangements</u>	66	professional way, ensuring that appropriate levels of information are		
v3.1:2017 CoA	<u>with</u>		given and recorded at each stage of the job or contract stage from		
COA	<u>Customer</u>		estimation to completion of the work.		
			Procedure - detailing how an enquiry is;		✓
			received by the company		
			who is responsible for the enquiry		
			 recording of the enquiry how the customer needs are established 		
			Responsibility for planning and building control compliance is		
			clearly identified		
			production of quotationallocation of labor		
			provision and ordering of materials work supervision		
			work supervision completion and bandouses		
			completion and handover invalidation of works agreed out		
			invoicing of works carried out		
			notification Installation Process Change		
			Installation Process Change Resease Continuity Plan		
			 Process Continuity Plan Process Control 		
			External certification and verification		
			Method Log/File detailing and containing;		
			Job/Contract Number	\checkmark	✓
			Job/Contract Name		
			Job/Contract Name Job/Contract Site Address		
			Contact Name		
			Contact Name Contact Address		
			Survey Form Location information		
			Location information type of world (assignment (assessment)) installed		
			type of work/equipment/measure(s) installed		
			details of any problems encountered, corrections		
			Date of Commencement		
			Estimated Completion		
			Job/Contract Supervisor		
			Date of Customer Acceptance		
			Details of Variation		
			Commissioning Record		
			Customer Sign off Form		
			Notification Reference		
			External certification and verification		

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Ref	Scheme Requirement	APHC Ref	Documentation Required	CPS	MCS
MCS001-1 v3.1:2017 MCS001-2 v3.1:2017 CoA	Company Employment Policies & Procedures	68 69	Policy - stating how the company will ensure all staff understand its QA System, the requirements and how they can become suitability competent through training and experience in their required work area.		√
			Where qualifications are used to demonstrate a competence, these will be recorded and monitored to ensure they are current.		
			Where new or additional competencies are required the company will provide training and assessment to meet this requirement.		
			Procedure - detailing; Identifying competence requirements to meet Codes or Practice, CMTC Responsible person for maintaining staff records		
			 Qualifications monitoring Re-assessment provision		
			 Method Log/File detailing and containing; Staff Records Training Activities Assessment Activities 	✓	✓
			The range of qualifications expected to demonstrate competence can be found in Appendix 1 (pages 18 – 20)		
MCS001-1 v3.1:2017 MCS001-2 v3.1:2017 CoA	Calibration and Maintenance of Tools and Equipment	75 76	 Policy - stating how the company will ensure all equipment is well maintained and calibrated if required. Procedure - detailing how the equipment is; Inspected 		✓
	Policy & Procedure		 Calibrated who is responsible for the equipment recording of the equipment calibration what an operative will do if they believe equipment is out of calibration 		
			 Method Log/File detailing and containing; Equipment Details Manufacturer Serial Number Date of Purchase/Hire Calibration Date Calibration Certificate Calibration Carried out by Re-Calibration Date 	✓	√
			The range of test equipment expected to be witnessed on site, can be found in appendix 3(pages 24 - 25)		

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Ref	Scheme	APHC	Documentation Required	CPS	MCS
MCS001-1 v3.1:2017 MCS001-2	Sub- Contractor	Ref 72	Policy – Where Sub contractors are used companies should provide evidence of standard sub-contract arrangements, detailing	✓	✓
v3.1:2017 CoA	Policies & Procedures		responsibility for notifications, competence and commissioning of work. The evidence should clearly demonstrate how the business ensures the sub-contractor will respond and comply with scheme rules. Procedure – to outline the following responsibilities; • A contract between the Contractor and the commercial client details obligations on the client to include that evidence of skills and training of those employed by the client to do elements of work not undertaken by the Contractor • The certificated Contractor assesses a sample number of installations under the contract • The certificated Contractor assumes responsibility at handover that the installation is in full compliance with the relevant standards. • The certificated Contractor provides additional product-specific training for those undertaking the work not		
			undertaken by the certificated Contractor. Method Log/File detailing and containing; Subcontractor Records Training Activities Assessment Activities The range of qualifications expected to demonstrate competence can be found in appendix1 (pages 18 - 20) The company will need to confirm in writing that they do not intend to use Sub-contractors.	✓	✓
MCS001-1 v3.1:2017 MCS001-2 v3.1:2017 CoA	Internal Review, Preventative and Corrective Actions Policy & Procedure	38 39	Policy - stating how the company will carry out internal review meetings to monitor the overall performance of the company and suppliers. The company will state the interval between internal meetings and nominate an individual to conduct internal reviews. Procedure - detailing; Nominated persons responsibilities Frequency of meetings Invitations and agendas Standing items Complaints and customer feedback Previous preventative actions Quality procedures and effectiveness		✓
			 Method File detailing and containing; Internal Review Meetings Notes Key Actions 	✓	✓

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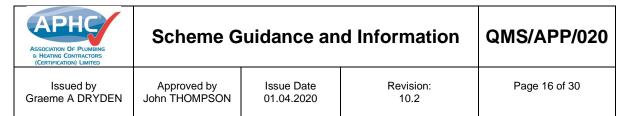
Ref	Scheme	APHC	Documentation Required		MCS
	Requirement	Ref			
MCS001-1 v3.1:2017 MCS001-2 v3.1:2017 CoA	Approved Supplier and Non- Conforming Products Policy & Procedure	36 37	Policy - stating how the company will source materials, products and equipment from organisations with quality assurance systems in place. Procedure - detailing;		✓
			 Method Log detailing and containing; Product Non-Conformance Identified by Job Number Customer Date Identified Supplier Date Supplier informed Defect Information 		✓

 $[\]checkmark$ Indicates a mandatory scheme requirement

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Ref	Scheme	APHC	Documentation Required	CPS	MCS
	Requirement	Ref			
MCS001-1 v3.1:2017 MCS001-2 v3.1:2017 CoA	Document Control & Records Policy & Procedure	32	Policy - stating how the company will maintain documents and records for period of no less than 6 years, how it relates to warranties and legislation. The company will state the requirements for a Controlled Document List, and the provision of access to the document by legitimate parties and the certification body. Procedure - Internal Documents detailing how the documents are; Controlled Issue numbers Recorded on a Controlled Document list Description of Controlled Documents Archiving of documents Electronic media use Backing up of electronic media		√
			External (Normative Documents): Document Control System Evidence of how a company will ensure operatives have access to a range of external documents, including Regulations and Approved Documents, British Standards, Industry Standards, Codes of Practice relating to the installation and commissioning of technologies and systems The range of expected external documentation to meet scheme requirements can be found in appendix 2 (pages 21 - 23)	√	√

[✓] Indicates a mandatory scheme requirement



ef	Scheme Requirement	APHC Ref	Documentation Required	CPS	MCS
CS001-1 1:2017 CS001-2	Design Installation &	QMS/SO P/010	Policy - the installer shall have in place a policy that lays out how it handles the installation and handover		✓
A Handover Policy & Procedure	ProcedureAnd operate a documented installation control proceocedureappropriate for validating that the installations undertaken confo	Procedure - And operate a documented installation control procedure appropriate for validating that the installations undertaken conform to the EEM specifier's specifications and/or the relevant installation methods.			
			A record of the installation control outcomes for each installation undertaken shall be made and signed off by a person authorised to do so on behalf of the installer.		
			Method Pre-Installation Survey The installer shall undertake a pre-installation survey at the designated location and prepare a method statement		~
			The survey shall be undertaken at a level of detail sufficient to confirm that the specified EEM can be safely and effectively installed at the designated location and shall include any specific pre-installation survey requirements from the relevant measure-specific annex from the relevant standard. Before conclusion of the pre-installation survey, the installer shall confirm with the customer that: • the nature and extent of the specified installation is known to the customer and is in line with that customer's expectations. • the arrangements made for site access and installation materials storage are adequate and appropriate for the installation to be undertaken. • Safety Alarms. • Presence of protected species. • Actions in response to survey findings.		
			A record of the survey and its findings, including these customer- related issues, shall be made by the surveyor and retained by the installer. Method Statement for Work required — Unless otherwise made available by the EEM specifier, the installer shall define and record in a method statement the installation process for each energy efficiency measures to be installed including; Design specification Iocation-specific information method for installing the product/system specified tools and equipment required for the installation product/system-related checking, handling and storage instruction provision of installation instructions to operatives requirement for intermediate inspection details of any "Commissioning" action required information to be delivered to the customer procedures for installation control		~

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Tostine	& Commissioning	
	otherwise not covered by a measure-specific requirement, it	•
	the responsibility of the installer to ensure the installed	
	re(s) is commissioned, in accordance with the manufacturer's	
	• •	
	tions and the design specification and in conformance with any	
relevar	t statutory regulations.	
December 1		
	s shall be made of commissioning action undertaken, including	
and pe	rformance measurement results.	
Hando	vor.	
		V
	the measure is fully installed and commissioned, and with any	
	onally material defects corrected, the installer shall undertake	
	over procedure with the customer as follows:	
a)	the safe operation of the installed measure	
b)	the care of the installed measure to avoid detrimental effects	
c)	the regular maintenance of the installation to ensure	
	operational safety	
d)	the efficient operation of the installation.	
Record	keeping –	\checkmark
	taller shall have in place and operate a documented procedure	
	onstrate that the information contained in the method	
	ent for each installation is available to, and has been used by,	
	eratives undertaking that installation.	
the opt		
Post Ir	<u>nstallation</u>	
Work F	Registration & Notification –	√
The ins	taller shall establish and maintain records containing at least	
	ormation identified below, in relation to each installation	
1	aken. Installation process records shall be retained for not less	
than siz		
a)	Location of the installation.	
b)	Type of measure(s) installed.	
c)	Dates of installation commencement, completion and	
	commissioning.	
d)	Identification of specific products/systems installed.	
e)	Details of any problems encountered, corrections agreed and	
	remedial work undertaken.	
f)	Name(s) of operatives undertaking the installation and their	
	competence levels.	
g)	Results of performance testing carried out.	
h)	Commissioning records.	
i)	Relevant installation certificates.	
,		
	addition to the sign off procedures required, the GDP may be required chose to undertake a separate validation and sign off process	
NOTITICA	ation of work can be submitted through:	
•	APHC Certification	
•	APHC	
•	Gas Safe Register	
•	Direct to Building Control	

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APPENDIX 1 – Acceptable Qualifications Against Scheme Requirements

Appliance, system or	Qualification
<u>measure</u>	
Condensing Boilers, Gas Fired (domestic)	Preferred Minimum Qualifications
cas i nea (aomestic)	NVQ Diploma Level 3 Plumbing and Domestic Heating or Gas Installation with an ACS aligned Natural Gas Heating Option
	or, NVQ Level 2 Plumbing, Domestic Heating or Gas Installation with CCN1, CEN1 or CENWAT1, CPA 1 ACS Certification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus; CCN1, CEN1 or CENWAT1, CPA 1 ACS Certification
Flue Gas Heat Recovery Devices	Preferred Minimum Qualifications
	NVQ Diploma Level 3 Plumbing and Domestic Heating or Gas Installation with an ACS aligned Natural Gas Heating Option or,
	NVQ Level 2 Plumbing, Domestic Heating or Gas Installation with CCN1, CEN1 or CENWAT1, CPA 1 ACS Certification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus; CCN1, CEN1 or CENWAT1, CPA 1 ACS Certification
Condensing Boilers,	Preferred Minimum Qualifications
Oil Fired (Pressure Jet)	
(domestic) including	NVQ Diploma Level 3 Plumbing and Domestic Heating Oil (Pressure Jet) Option
storage tanks	or, NVQ Level 2 Plumbing or Domestic Heating plus OFT 101 and OFT 600a Certification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus OFT 101 and OFT 600a certification
Boilers, Oil Fired	Preferred Minimum Qualifications
(Vaporizing) (domestic) including	NVQ Level 3 Diploma Plumbing and Domestic Heating Oil (Vapourising) Option
storage tanks	or, NVQ Level 2 Plumbing or Domestic Heating plus OFT 102 and OFT 600a Certification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus OFT 102 and OFT 600a certification
Biomass Boilers	Preferred Minimum Qualifications
	NVQ Diploma Level 3 Plumbing and Domestic Heating with Solid Fuel (Biomass) Option
	or, NVQ Level 2 Plumbing or Domestic Heating plus HETAS or APHC solid fuel commissioning qualification in the last 5 years and HETAS - H005/H005BR or
	BPEC woody biomass mapped certificate
	It may be possible to prove competence through the APHC Experienced Worker entry route plus HETAS or APHC solid fuel commissioning qualification in the last 5 years and HETAS - H005/H005BR or
	BPEC woody biomass mapped certificate

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Solid Fuel Boilers	Preferred Minimum Qualifications
	NVQ Level 3 Diploma Plumbing and Domestic Heating with Solid fuel (Solid Mineral) Option
	or,
	NVQ Level 2 Plumbing or Domestic Heating plus HETAS or APHC solid fuel commissioning
	qualification in the last 5 years
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	HETAS or APHC solid fuel commissioning qualification in the last 5 years
Electrical installations	Preferred Minimum Qualifications
- Defined competence	Treferred William Qualifications
schemes.	City and guilds 2292 or equivalent, or
scrienies.	City and guilds 2382 or equivalent, or
	BPEC limited scope electrical qualification, or
	Logic limited scope electrical qualification, or
	City and guilds full scope electrical qualification
Heating Controls	Preferred Minimum Qualifications
0 - 1 - 1	
	NVQ Level 3 Diploma in Plumbing and Heating, or
	NVQ Level 3 Plumbing, Heating or Gas Installation
	or,
	NVQ Level 2 Plumbing or Domestic Heating plus Energy Efficiency qualification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	additional Energy Efficiency qualification;
	BPEC Energy Efficiency qualification, or
	Logic Energy Efficiency qualification, or
	NICEIC Energy Efficiency qualification
Under-floor Heating	Preferred Minimum Qualifications
Onder noor nearing	Trecered William Qualifications
	NVO Diploma Loyal 2 Dlumbing and Domostic Hoating with Underfloor Heating within CH Unit
	NVQ Diploma Level 3 Plumbing and Domestic Heating with Underfloor Heating within CH Unit,
	Or
	NVQ Level 2 Plumbing or Domestic Heating plus additional underfloor heating qualification;
	BPEC underfloor heating qualification (mapped against the standard), or
	Logic Underfloor heating qualification(mapped against the standard), or
	NICEIC Underfloor heating qualification(mapped against the standard)
	It was a beginning to the second of the second through the ADUC Foresting and Manhouse through the second th
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	additional underfloor heating qualification;
	BPEC underfloor heating qualification,
	Logic Underfloor heating qualification or
	NICEIC Underfloor heating qualification
Heating System	Preferred Minimum Qualifications
Insulation (pipes and	
cylinders)	NVQ Level 2 Plumbing or Domestic Heating
	It may be possible to prove competence through the APHC Experienced Worker entry route
	1 1, 11 postale de processa de margo, distribuidos marios entry radio

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Ground and Air Source	Preferred Minimum Qualifications
Heat Pumps	
	NVQ Diploma Level 3 Plumbing and Domestic Heating with Environmental (Heat Pumps) Option
	Or,
	NVQ Level 2 Plumbing or Domestic Heating plus additional heat pump qualification
	QCF Award in Installation, Service and Maintenance of Environmental Technology Systems (Heat
	Pumps), or
	BPEC heat pumps mapped qualification, or
	Logic heat pumps mapped qualification, or
	NICEIC heat pumps mapped qualification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	BPEC heat pumps mapped qualification, or
	Logic heat pumps mapped qualification, or
	NICEIC heat pumps mapped qualification
Solar Thermal	Preferred Minimum Qualifications
	NVQ Diploma Level 3 Plumbing and Domestic Heating with Environmental (Solar Thermal) Option
	Or,
	NVQ Level 2 Plumbing or Domestic Heating plus additional Solar Thermal qualification
	QCF Award in Installation, Service and Maintenance of Environmental Technology Systems (Solar
	Thermal), or
	BPEC Solar Thermal mapped qualification, or
	Logic Solar Thermal mapped qualification, or
	NICEIC Solar Thermal mapped qualification
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	BPEC Solar Thermal mapped qualification, or
	Logic Solar Thermal mapped qualification, or
	NICEIC Solar Thermal mapped qualification
Installation of heating	Preferred Minimum Qualifications
and hot water	NVQ Diploma Level 3 Plumbing and Domestic Heating
systems, including	Or,
innovative hot water	NVQ Level 2 Plumbing or Domestic Heating plus additional BPEC Domestic Vented and Unvented
systems	Hot Water Storage Systems
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	BPEC Domestic Vented and Unvented Hot Water Storage Systems
In shall shall a	Desferred Minimum Coulifications
Installation of	Preferred Minimum Qualifications
plumbing and water	NVQ Level 2 Plumbing or Domestic Heating plus additional BPEC Water Supply (Water Fittings)
supply systems,	Regulations Certificate
including water	It may be possible to prove competence through the APHC Experienced Worker entry route plus
efficient taps and	BPEC Water Supply (Water Fittings) Regulations Certificate
showers	
Installation of non-	Preferred Minimum Qualifications
wholesome water	NVQ Diploma Level 3 Plumbing and Domestic Heating with Environmental (Water Re-use) Option
supply to a sanitary	Or,
convenience with a	NVQ Level 2 Plumbing or Domestic Heating plus BPEC Water Supply (Water Fittings) Regulations
flushing mechanism	Certificate, and
	BPEC Rainwater Harvesting and Greywater Recycling
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	Water Regulations Qualification, and
	BPEC Rainwater Harvesting and Greywater Recycling
	Di Le Rammater Harvesting and Greywater Recycling

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Sanitary	Preferred Minimum Qualifications
Conveniences, sinks,	NVQ Diploma Level 3 Plumbing and Domestic Heating
washbasins, fixed	Or,
baths, showers, or	NVQ Level 2 Plumbing or Domestic Heating plus additional BPEC Above Ground Sanitary Pipework
bathrooms in	Certificate
dwellings	
	It may be possible to prove competence through the APHC Experienced Worker entry route plus
	BPEC Above Ground Sanitary Pipework Certificate

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APPENDIX 2 – Nominal References

The table below lists the minimum range of normative references that the business and its engineers should be able to access to obtain key legislation or information about an installation or commissioning activity.

It is not a requirement to own the range of normative references, however, the business must demonstrate the ability to look at them and be able to interpret them both in the office and on site if required.

Appliance, system or	Nominal References
measure	
Condensing Boilers,	WRAS Water Regulations Guide
Gas Fired (domestic)	Building Regulations Approved Document L
•	Building Regulations Approved Document G
	Building Regulations Approved Document J
	Domestic Building Services Compliance Guide
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services
	(domestic scale) or subsequent edition
Condensing Boilers, Oil	WRAS Water Regulations Guide
Fired (Pressure Jet)	Building Regulations Approved Document L
(domestic) including	Building Regulations Approved Document G
·	Building Regulations Approved Document J
storage tanks	Domestic Building Services Compliance Guide
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services
	(domestic scale) or subsequent edition
Boilers, Oil Fired	WRAS Water Regulations Guide
(Vaporizing)	Building Regulations Approved Document L
(domestic) including	Building Regulations Approved Document G
· · · · · · · · · · · · · · · · · · ·	Building Regulations Approved Document J
storage tanks	Domestic Building Services Compliance Guide
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services
	(domestic scale) or subsequent edition
Biomass Boilers	MIS3004 Biomass Standard
	WRAS Water Regulations Guide
	Building Regulations Approved Document L
	Building Regulations Approved Document G
	Building Regulations Approved Document J
	Domestic Building Services Compliance Guide
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services
	(domestic scale) or subsequent edition
Solid Fuel Boilers	WRAS Water Regulations Guide
	Building Regulations Approved Document L
	Building Regulations Approved Document G
	Building Regulations Approved Document J
	Domestic Building Services Compliance Guide
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services
	(domestic scale) or subsequent edition
Electrical installations -	Building Regulations Approved Document G
Defined competence	Building Regulations Approved Document Part P
schemes.	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services
JUITETHES.	(domestic scale) or subsequent edition

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Haatina Cant				
Heating Controls	Building Regulations Approved Document L			
	Building Regulations Approved Document G			
	Domestic Building Services Compliance Guide			
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services			
	(domestic scale) or subsequent edition			
Under-floor Heating	WRAS Water Regulations Guide			
	Building Regulations Approved Document L			
	Domestic Building Services Compliance Guide			
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services			
	(domestic scale) or subsequent edition			
	BS EN 1264 Parts 1-5 – Water based surface embedded heating and cooling systems			
	CIBSE Underfloor Heating Design and Installation Guide			
	BSRIA Underfloor Heating and Cooling Guide			
	UHMA/TACMA Controls Guide			
	Screeds with underfloor heating - Guidance for a defect-free interface (IEP 11/2003)			
Heating System	WRAS Water Regulations Guide			
Insulation (pipes and	Building Regulations Approved Document L			
cylinders)	Building Regulations Approved Document G			
cymracis,	Domestic Building Services Compliance Guide			
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services			
	(domestic scale) or subsequent edition			
Ground and Air Source	MIS 3005 Heat Pump Standard			
Heat Pumps	MGD 002 Guidance for MIS 3005			
•	MCS 022 Supplementary Information 1 Ground loop sizing table			
	Supplementary Information 2 Heat Emitter Guide			
	WRAS Water Regulations Guide			
	Building Regulations Approved Document L			
	Building Regulations Approved Document G			
	Domestic Building Services Compliance Guide			
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services			
	(domestic scale) or subsequent edition			
Solar Thermal	MIS 3001 Solar Heating Standard			
	WRAS Water Regulations Guide			
	Building Regulations Approved Document L			
	Building Regulations Approved Document G			
	Domestic Building Services Compliance Guide (2010 Edition or subsequent edition)			
	BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services			
	(domestic scale) or subsequent edition			



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					<u>. I</u>		
Install	ation of heating	WRAS Water Regulation	ns Guide		•		
	ot water	Building Regulations Approved Document L					
		Building Regulations Approved Document G					
	ns, including	Domestic Building Services Compliance Guide					
innova	ative hot water	BS EN 806-1 Specifications for installations inside buildings conveying water for human					
systen	ns	consumption. General					
		BS EN 806-2 Specifications for installations inside buildings conveying water for human consumption. Design					
		BS EN 806-3 Specification for installations inside buildings conveying water for human					
		consumption. Pipe sizing					
		BS EN 806-5 Specifications for installations inside buildings conveying water for human					
		consumption. Operation and maintenance					
		BS 8558:2011 Guide to the design, installation, testing and maintenance of services supplying					
		water for domestic use within buildings and their cartilages. Complementary guidance to BS EN					
		806 BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services					
			•	ing sites. Code of practice	e for flot and cold water se	ervices	
		(domestic scale) or sub	-	ildiaaa Daaisa faassataa	h d h t'		
				ildings. Design for water		l d	
		BS EN 12831:2003 Heating systems in buildings. Method for calculation of the design heat I BS EN 14336:2004 Heating systems in buildings. Installation and commissioning of water ba					
			iting systems in bu	illdings. Installation and c	commissioning of water ba	ased	
		heating systems					
Install	ation of	M/DAC Mater Begulatio	ns Cuido				
	ation of	WRAS Water Regulations Guide					
plumb	ing and water	Building Regulations Approved Document L					
supply	systems,	Building Regulations Approved Document G					
includ	ing water	BS EN 806-1 Specifications for installations inside buildings conveying water for human					
efficie	nt taps and	consumption. General					
showe	-	BS EN 806-2 Specifications for installations inside buildings conveying water for human					
00		consumption. Design	ian fan inskallskisn	a inaida buildinaa aanuu.			
		·		s inside buildings convey	ing water for numan		
		consumption. Pipe sizi	-				
		-		ons inside buildings conv	eying water for numan		
		consumption. Operati					
					tenance of services suppl		
			e within buildings	and their cartilages. Cor	mplementary guidance to	DO EN	
		806	المائنيما مرم مرتمام مرموس	ina sitas. Cada af muastis.	- for het and soldetar o		
			•	ing sites. Code of practice	e for hot and cold water se	ervices	
		(domestic scale) or sub	•				
	ation of non-	WRAS Water Regulation					
whole	some water	Building Regulations Approved Document L					
supply	to a sanitary	Building Regulations Approved Document G (2010 Edition or subsequent edition)					
conve	nience with a	BS EN 806-1 Specifications for installations inside buildings conveying water for human					
consumption. General							
	.0		ions for installatio	ns inside buildings conve	ying water for human		
		consumption. Design					
				s inside buildings convey	ing water for human		
		consumption. Pipe sizi	_				
				ons inside buildings conv	eying water for human		
		consumption. Operati	on and maintenar	nce			
		BS 8558:2011 Guide to	the design, insta	llation, testing and main	tenance of services suppl	lying	
				1.1			

water for domestic use within buildings and their cartilages. Complementary guidance to BS EN

BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services

(domestic scale) or subsequent edition

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Sanitary Conveniences, sinks, washbasins, fixed baths, showers, or bathrooms in dwellings WRAS Water Regulations Guide

Building Regulations Approved Document L Building Regulations Approved Document G

BS 8000-15:1990 Workmanship on building sites. Code of practice for hot and cold water services (domestic scale) or subsequent edition

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APPENDIX 3 – Commissioning Tools Required for each Technology

These are the industry standard commissioning tools that you require to be available for your qualified engineers so that they can undertake commissioning to the correct standards.

Technology area	Commissioning equipment required			
Wholesome water	Hydraulic pressure test kit – pipework soundness			
supply	Flow measuring cup			
	Water pressure gauge (tap outlets)			
Heating systems	Hydraulic pressure test kit – pipework soundness			
connected to a heat	Differential temperature thermometer			
producing appliance				
Oil condensing boilers	Oil line pressure test kit			
(pressure jet)	Oil pressure gauge			
	Combustion analysis kit (smoke reading, CO2 reading, flue draught & flue gas temperature)			
	Flue gas analyzer			
Oil boilers (vaporising)	Oil line pressure test kit			
	Oil pressure gauge			
	Combustion analysis kit (smoke reading, CO2 reading, flue draught & flue gas temperature)			
Oil storage	Oil line pressure test kit			
	Oil pressure gauge			
Defined scope	Voltage measurement device			
electrical installation	Insulation resistance measurement device			
	Earth continuity testing device			
	Polarity testing device			
	Device to measure earth fault loop impedance			
	Device to measure operation of RCD's			
	*This may all be in the form of a multi function			
Heat access	tester			
Heat pumps	Hydraulic pressure test kit – pipework soundness			
	Differential temperature thermometer			
	Heat pump testing kit (pH papers etc) Refractometer			
	Heat pump flush (filling) kit			
Solar thermal	As for the hot water system connected and;			
Join thermal	Hydraulic pressure test kit – pipework soundness			
	Differential temperature thermometer			
	Refractometer			
	Compass			
	Solar flush (filling) kit			
	Inclinometer			
Biomass boilers	Flue combustion analyzer			
	Flue draught gauge			
	Coring ball			
Solid fuel Flue draught gauge				
Coring ball				
Recycled water	Hydraulic pressure test kit – pipework soundness			
systems	Water sampling test kit (pH, bacteriological etc.)			
	Cross connection dye test equipment			
Vented hot water	Hydraulic pressure test kit – pipework soundness			
systems	Flow measuring cup			
	Water pressure gauge (tap outlets)			
	Pipe thermometer (or similar)			

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Unvented hot water	Hydraulic pressure test kit – pipework soundness	
systems	Flow measuring cup	
	Vater pressure gauge (tap outlets)	
	Pipe thermometer (or similar)	
Sanitary appliances	Air testing kit for sanitary pipework systems	
	Dip stick (or similar) – trap seal retention	