

## All about Building Services

Issue 05 November 2018

A newsletter from City & Guilds on professional and technical educational updates in Building Services for all nations.

In this issue:

- Functional skills
- T Levels
- JIB PHMES card application for apprentices
- opportunities
- New qualifications and updates - 18<sup>th</sup> Edition 2382-18, RAC, Gas 9074-03
- New Learning Support Materials
- Regional Network Meetings and webinars

## Newsletter

Have you downloaded our previous newsletters?

Please follow this link to view past newsletters containing information on gas assessment updates, 2365 paperwork and links along with further information on BSE.

<https://www.cityandguilds.com/qualifications-and-apprenticeships/building-services-industry#fil=apprenticeship>

## Functional skills updates

The reformed Functional Skills qualifications will be available for teaching with effect from September 2019, to find out what this means for your delivery and the impact on your apprentices, join our monthly webinars to keep up to date.

Visit the Functional Skills page for further information and the link to register for the webinars:

<https://www.cityandguilds.com/what-we-offer/centres/maths-and-english/functional-skills-assessment-updates>

## Update on government reforms

### T-Levels – England

A recent IfA review of content has resulted in the Design, Surveying and Planning pathway being selected for delivery of a T level in 2020, ahead of Building Services Engineering and On-site Construction, which will now follow for first delivery in 2021:

<https://www.instituteforapprenticeships.org/about/outline-content-for-first-new-t-levels/>

<https://www.cityandguilds.com/tlevels>

## Email Updates

Please register for email alerts to remain updated. All invites to regional networks, seminars and regular updates like this newsletter will be advertised through the email update system, if you are not registered you may be missing out.

**Register here** - <https://www.cityandguilds.com/what-we-offer/centres/email-updates>

## JIB UK-PHMES CSCS Card Application for apprentices.



### Eligibility requirements

To be eligible for a UK-PHMES CSCS Apprentice card (red card), learners must:

- be enrolled on a full apprenticeship programme (Apprenticeship Standard or Apprenticeship Framework) and be able to provide a copy of a signed Apprenticeship Agreement
- have the name of the apprenticeship and the training provider confirmed by their Assessor/Course Tutor
- provide details of their employer
- meet the Health, Safety and Environmental requirements (either complete the CITB H,S&E touch screen test, or have completion of the H,S&E element of their apprenticeship programme signed off by their Assessor/Course Tutor)

### Application details

- Card costs £20.00 (standard application – card is provided within 28 working days of application being received), or £80.00 (fast track application – card is provided within 4 working days of application being received)
- Cards are valid for 5 years (or until the apprentice qualifies for either a blue or gold qualified operative card)
- Applicants must provide a copy of their Apprenticeship Agreement
- Applications must be signed by the apprentice, the employer and the training provider.

Application forms can be downloaded from the following page on the JIB-PMES website:  
<https://www.jib-pmes.org/apprentice-and-trainee-registration-card/>

## JIB UK-PHMES CSCS Card Application for trainee.



### Eligibility requirements

To be eligible for a UK-PHMES CSCS Trainee card (red card), learners must:

- be enrolled on an appropriate NVQ Diploma or equivalent recognised qualification and be able to provide a copy of their AO registration number
- have the name of the qualification and the training provider confirmed by their Assessor/Course Tutor
- provide details of their employer
- meet the Health, Safety and Environmental requirements (either complete the CITB H,S&E touch screen test, or have completion of the H,S&E element of their qualification signed off by their Assessor/Course Tutor)

### Application details

- Card costs £20.00 (standard application – card is provided within 28 working days of application being received), or £80.00 (fast track application – card is provided within 4 working days of application being received)
- Cards are valid for 5 years (or until the trainee qualifies for either a blue or gold qualified operative card)
- Applicants must be able to provide the AO registration number
- Applications must be signed by the trainee, the employer and the training provider.

Application forms can be downloaded from the following page on the JIB-PMES website:

<https://www.jib-pmes.org/trainee-registration-card/>

## JIB UK-PHMES CSCS Work Experience Card Summary



### Eligibility requirements

To be eligible for a UK-PHMES CSCS Work Experience card (red card), learners must:

- be enrolled on an appropriate qualification (as specified on the application form)
- have the name of the qualification and the training provider confirmed by their Assessor/Course Tutor
- meet the Health, Safety and Environmental requirements (either complete the CITB H,S&E touch screen test, or have completion of the H,S&E element of their qualification signed off by their Assessor/Course Tutor)

### Application details

- Card costs £20.00, the card will be provided within 28 working days of the application being received (applications can be 'fast tracked' for an additional £60.00 – guaranteeing delivery within 4 working days of the application being received)
- Cards are valid for 12 months only and CANNOT BE RENEWED
- The card is designed to allow the holder to undertake work experience with an employer on CSCS controlled work sites
- The holder of the card is NOT permitted to access CSCS controlled work sites for the purpose of completing paid work
- Applications must be signed by the learner (applicant) and the training provider.

Application forms can be downloaded from the following page on the JIB-PMES website:  
<https://www.jib-pmes.org/work-experience-registration-card-3/>

## Opportunities

### City & Guilds Electrical EQA Vacancies - London & South-East

We are recruiting External Quality Assurers with solid quality assurance experience and current Electrical industry expertise to monitor the quality assurance and delivery of our qualifications for the London & South-East regions.

The role is both a challenging and rewarding experience. You will maintain effective working relationships with our City & Guilds centres, providing advice & guidance, as well as planning and monitoring quality assurance activities in line with City & Guilds policies.

To be considered for the EV role you must;

- have a good working knowledge and experience within the electrical industry and be able to demonstrate your occupational competence in this area.
- have a good working knowledge of quality assurance procedures
- hold the appropriate qualifications for this industry area
- hold the Internal Quality Assurer qualifications (D32, D33, D34 or A1, V1 or TAQA units)
- achieved or be working towards the (6312-41) External Quality Assurance of Assessment Processes and Practice (TAQA) or its equivalent (D35/ V2)

To apply for the EQA role please visit our recruitment page to complete the online application form.

<https://tinyurl.com/y9bg5oo2>

### Independent End-point Assessor - Property Maintenance Operative

The world of Apprenticeships in the UK is changing dramatically and we're looking for occupationally competent Independent End-point Assessors for our Property Maintenance Operative Apprenticeship Standard to help us drive forward our End-point Assessment service. We are looking for qualified Independent End-point Assessors to carry out End-point Assessments for these new Standards to help us ensure quality in the apprenticeship system, building on the trust and reputation that comes with our heritage.

#### How to apply

For more information on the role, including how to apply, please click

<https://tinyurl.com/yadshjxw>

Interested in working with us in other areas such as moderation examiners etc follow the below link

<https://www.cityandguilds.com/techbac/technical-qualifications/work-with-us>

## New qualifications and updates

### Framework funding end dates

We currently have the below end dates for funding on the relevant apprenticeships in England. As this is England only funding the relevant qualifications are likely to be available after this date due to the demand for other nations and full cost recovery/adult delivery.

So, let's look at an example. Qualifications such as 6189 are likely to be available after July 2020 although not funded as an apprenticeship after that date. This will mean the only funded apprenticeship after July 2020 for plumbing will be the new plumbing and domestic heating standard (9189 qualification code).

Framework	Code	SSC	Area	End date
Heating and Ventilating	515	<u>Instructus</u>	Construction, Planning and the Built Environment	31-Jul-20
Plumbing and Heating	512	<u>Instructus</u>	Construction, Planning and the Built Environment	31-Jul-20
Refrigeration and Air Conditioning	514	<u>Instructus</u>	Construction, Planning and the Built Environment	31-Jul-20

### RACHP

Refrigeration air conditioning and heat pump engineering technician Apprenticeship standard - <https://www.instituteforapprenticeships.org/apprenticeship-standards/refrigeration-air-conditioning-and-heat-pump-engineering-technician/>

Please follow link to on programme qualification resources and learner journal which has now been released- <https://www.cityandguilds.com/qualifications-and-apprenticeships/building-services-industry/refrigeration-and-airconditioning/6090-refrigeration-airconditioning-and-heat-pump-systems#tab=documents>

### 2357

**RPL and exemption from 2365 and other equivalent qualifications.**

Currently centres use the various RPL registrations codes or the 2357-91 unit route. In future we will be closing the various registration routes and encouraging centres to register on the unit route 2357-91 and then claim proxy units against exempt units. There will be a new RPL document available to ensure the exemptions are clear. Please look out for the latest RPL exemption document which will be available on the website when finalised

Unit routes – do you have 2357-91 approval? If not please ask your quality office and EQA as this will only be an administration task to obtain approval.

## **JIB Registered electrician 1<sup>st</sup> July deadline to update to 18<sup>th</sup> edition**

### **Apprentices**

What's happening?

Completing apprentices with the 17th Edition can become a Registered Electrician until 31 Dec 2018. They will have until 01 July 2019 to gain the 18th edition qualification if they wish to maintain their Registered Electrician status.

From 01 Jan 2019, completing apprentices with 17th will receive an Installation or Maintenance Electrician gold card and can upgrade to Registered Electrician when they gain the 18th.

### **New Gold Card Applications**

What's happening?

From 01 January 2019 anyone applying for an Installation or Maintenance Electrician gold card for the first time will be required to sign up to Registered Electrician status. This means the applicant must be qualified to the 18th Edition of BS7671 and sign up to a Code of Professional Practice, in addition to holding the minimum qualifications required for the card.

### **Existing Registered Electricians**

What's happening?

By 01 July 2019 all current Registered Electricians with 17th Edition BS7671 need to have achieved a qualification in the 18th Edition of the Wiring Regulations (BS7671:2018).

## **Find out more around 18th Edition IET Wiring Regulations 2018**

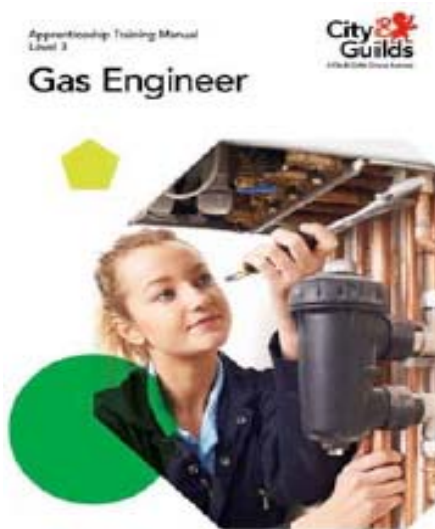
<https://www.cityandguilds.com/qualifications-and-apprenticeships/building-services-industry/18th-edition>



## Level 3 Gas Engineer -9074

Level 3 gas qualification which provides a suitable entry route on to the gas safe register. This product can be delivered as a stand alone qualification or as part of the new gas engineering apprenticeship.

Smartscreen available



### Gas Apprenticeship Training Manual

Purchase from Walled Garden –  
search code - TL081117

## Level 3 Gas Engineer -9074

Full smartscreen support now available

### Level 3 Diploma in Gas Engineering



#### Some exceptions to the rule

DFE gas appliances are covered in BS 5871 Part 3 and it states that they require 100cm<sup>2</sup> of ventilation unless manufacturers' instructions (MI) differ.



Grate for  
DFE



Ceramic coals



Coals arranged  
on grate to MI



DFE with real  
flame effect

### Level 3 Diploma in Gas Engineering



#### Gross and net calculations

A gas appliance, such as a BBU, will have a data plate which will give technical details about the rating and performance of the boiler. In the data plate shown below, the maximum heat input of the appliance is 21.8kW.

BAXI BERMUDA 551		BAXI HEATING PRESTON LANCASHIRE	
BRITISH GAS APPROVED	HEAT INPUT	HEAT OUTPUT	C.C. NUMBER
21.8kW	18kW	16.1kW	44.017.48
18,000 Btu/h	61,500 Btu/h	54,000 Btu/h	CAT 1N
16.1kW	13kW	10kW	
54,000 Btu/h	45,000 Btu/h	34,000 Btu/h	
SETTING PRESSURE			
1.5 bar (21 ps)	1.0 bar (14.5 ps)	0.5 bar (7.25 ps)	
1.5	1.0	0.5	
MAINS INPUT 230-240V 50Hz			
FUSE RATING 3A			
SERIAL No.		LR	

This is an older appliance, which is evident because of the BTU/H indicator; the maximum input must be converted from gross to net.

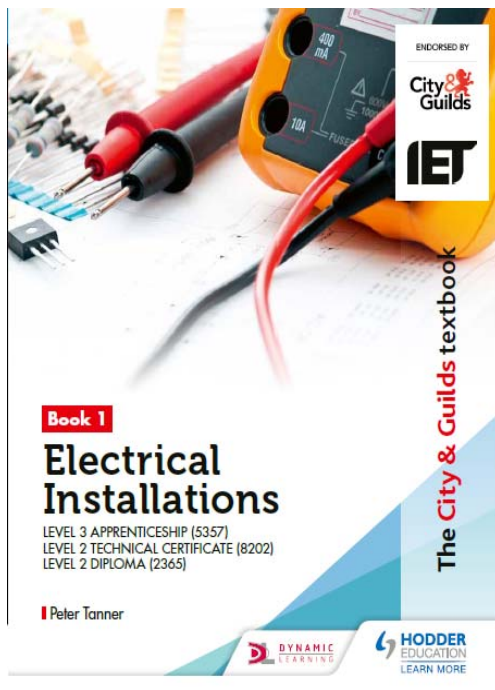
$$21.8 \div 1.11 = 19.64\text{kW net.}$$

Therefore the ventilation required is  $19.64 - 7 = 12.64$

$$12.64 \times 5 = 63.2 \text{ cm}^2.$$

## New Textbooks

New electrotechnical books available  
Book 1 Electrotechnical – Available now  
Book 2 Electrotechnical – December 2018  
Book 1 Plumbing – Early 2019  
Book 2 Plumbing – Early 2019



The City & Guilds Textbook  
Plumbing Book 1  
for the Level 3 Apprenticeship and Level 2 Technical Certificate

Author: Michael B. Maskrey

Hodder Education and City & Guilds: partners in vocational education

Equip your learners with the tools for success with Plumbing Book 1, published in association with City & Guilds

Encourage learners to study with confidence, covering all core units for the new specifications, end of unit practice questions and activities, and practice mini-assignments for synoptic assessment

Helps students get to grips with technical content presented in accessible language and enhance their understanding of plumbing practice with clear and accurate illustrations and diagrams demonstrating the technical skills they need to master

Help students practise Maths and English in context, with embedded Improve your maths and English activities

Prepare learners for the workplace with up-to-date information on relevant key regulations and industry standard, and keeps knowledge current, with clear coverage of major modern cold water, hot water, central heating, sanitation and rain water systems

**Price: £29.99**  
**Available: August 2018**  
**ISBN: 9781510416482**

**This title will also be available as a:**

**Student eTextbook**  
A downloadable version of the printed textbook that students can use offline on their own devices.  
Price: 1 year: £7.50; 2 year: £12; 3 year: £17.99 • Available September 2018 • ISBN: 9781510416031

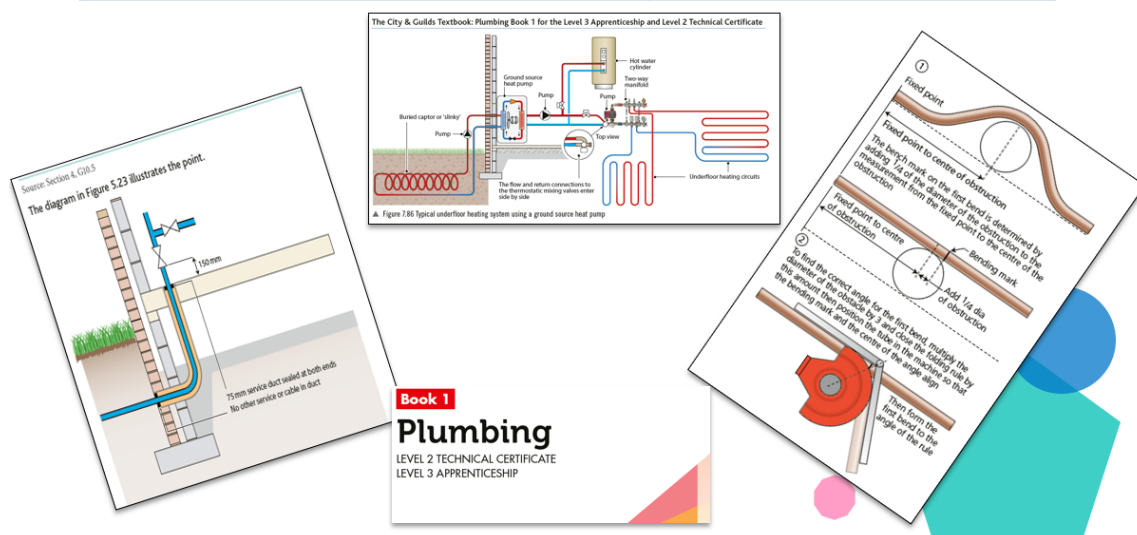
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LEARN MORE

## The City & Guilds textbooks

Covers apprenticeship and full/part time qualifications



## Regional Network Meetings and webinars

We have some key webinars and networks especially focused on plumbing and gas centres.

## Plumbing and Domestic Heating standard Launch - Webinar

With the new long awaited standard due to be live for registrations on the 24<sup>th</sup> January 2019 we are delivering a webinar to introduce the new on programme qualification our 9189 register on the below link.

<https://register.gotowebinar.com/register/1526550243911913219>

## BSE Regional networks

Focussed on Plumbing and Gas with the developments in the apprenticeship market, we hope to keep our networks updated by our latest series of autumn, winter network meetings. This network meetings with be delivered by a City & Guilds Technical Advisor and cover trailblazers, standards, technicals, T levels and more.

Not one in your area and if you would like to host just let us know. We will be hosting networks to discuss the plumbing and gas qualifications and apprenticeships throughout the new year, all we need is a room we do the rest just contact us for more information.

[buildingservices@cityandguilds.com](mailto:buildingservices@cityandguilds.com)

Region	Location	Date	Eventbrite link
Lancashire	Wigan College	27.11.18	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-wigan-tickets-49215018445">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-wigan-tickets-49215018445</a>
London	London offices	30.11.18	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-london-tickets-48369306899">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-london-tickets-48369306899</a>

East	Northampton	6.12.18	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-northampton-tickets-48947159271">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-northampton-tickets-48947159271</a>
Merseyside	St Helens College	7.12.18	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-merseyside-tickets-50219222045">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-merseyside-tickets-50219222045</a>
Midlands	Stoke	18.12.18	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-stoke-tickets-48368642913">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-stoke-tickets-48368642913</a>
East	Colchester	9.1.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-colchester-tickets-48370120332">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-colchester-tickets-48370120332</a>
Devon/Cornwall	South Devon College	9.1.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-south-devon-college-tickets-50163161366">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-south-devon-college-tickets-50163161366</a>
South West	Weston College	10.1.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-weston-tickets-48364077257">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-weston-tickets-48364077257</a>

## BSE Regional networks

London	London offices	11.1.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-london-tickets-48369306899">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-london-tickets-48369306899</a>
North East	Newcastle College	22.1.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-newcastle-college-tickets-50650652465">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-newcastle-college-tickets-50650652465</a>
Midlands	SCCB Birmingham	24.01.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-sccb-birmingham-tickets-52707045191">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-sccb-birmingham-tickets-52707045191</a>
South East	CCN Norwich	25.01.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-city-college-norwich-tickets-52871769887">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-city-college-norwich-tickets-52871769887</a>
South East	Mid Kent	30.1.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-mid-kent-college-tickets-48876786785">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-mid-kent-college-tickets-48876786785</a>
North East	Hartlepool College	7.2.19	<a href="https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-hartlepool-college-tickets-50271681954">https://www.eventbrite.co.uk/e/bse-regional-network-plumbing-and-gas-hartlepool-college-tickets-50271681954</a>
Northern Ireland	TBC	13.2.19	TBC
Northern Ireland	TBC	14.2.19	TBC
Wales	TBC	TBC	TBC

<https://www.eventbrite.co.uk/o/city-and-guilds-building-services-team-17431621136>

Any new dates will show on the above link, see you soon.



## BSE Regional networks coverage map



## Tell us what you think

*All About Building Services* is a newsletter that brings together all of the key developments from City & Guilds relevant skills learning across England, Scotland Northern Ireland and Wales. It contains updates on the range of teaching and learning resources we offer, plus relevant public policy or other information we think you might be interested in.

Each edition is numbered, so we can refer back to previous issues or tell you when information has been superseded.

If there's anything else you'd particularly like us to cover or explain more fully in future issues of *All About*, please feel free to drop us a line to

For specific queries and enquiries please contact our dedicated customer support team:

**PDCustomerSupport@cityandguilds.com**

Thank you for your continued support.
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