

REGISTERED THE ONLY OFFICIAL INDUSTRY PUBLICATION

GasEngineer

Issue 193 September/October 2026

When it comes to your safety
Take no chances

**Gas
Safety
Week** .co.uk
Keeping our nation safe

Gas Safe Update

Gas Safety Week is nearly here: how will YOU support?
Boiler theft gang jailed

Technical

Your Technical FAQs answered
TB 025: Disconnecting and reconnecting gas cookers



Editor's comment

It's nearly time for Gas Safety Week and I really like this year's theme, Take No Chances. It not only reminds your customers to remain vigilant when choosing someone to work on their gas appliances but also highlights that they should be conscientious in checking for gas work that needs doing and not be tempted to put it off.

This year's theme is broad enough for any Gas Safe engineer – as well as those across our wider industry – to tap into easily and make it work for them during the week.

For gas engineers, joining in with Gas Safety Week isn't just about ticking a box: it's a great way to show your customers you're a professional, qualified individual who cares about your work – and their safety.

To help you, the free downloadable toolkit is packed full of easy-to-use tools that help you stand out from your competitors. Whether you're looking for content for your website or helpful, pre-written social media messages – including images and a short film in different sizes and formats – there's something for everyone, and there's a different topic every day.

Gas Safety Week will see supporters from across our industry come together to keep the nation gas safe, continue to raise awareness of gas safety and encourage consumers to take positive action to stay gas safe.

Please do let us know how you're supporting at editorial@registeredgasengineer.co.uk: you might spot yourself in our next edition, when we will share as many examples as we can.

Sue Harker
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IGEM/UP/1B: Important reminder



IGEM/UP/1B – Edition 3 Tightness testing and direct purging of small Liquefied Petroleum Gas/Air, Natural Gas and Liquefied Petroleum Gas installations (with Amendments October 2012) will be withdrawn on 30 September 2026. From that date, gas engineers must work in accordance with the requirements of IGEM/UP/1B Edition 4.

The main changes in IGEM/UP/1B Edition 4 are that

permissible pressure drops on a tightness test are determined by the Installation Volume (IV) rather than meter size alone, and that where there is any perceptible movement of the gauge this is not attributable to gas installation pipework.

You can read an overview of the changes and FAQs at: <https://registeredgasengineer.co.uk/technical/updated-tightness-testing-standard-what-you-need-to-know/>

Telling your customers about changes to tightness testing

Gas Safe Register has created a handy guide to help your customers understand why tightness testing in their home may look a little different in the future. The factsheet sets out when the changes to the procedure come into effect and what the process looks like, along with other FAQs.

You can share this information with your customers at: <https://tinyurl.com/2nv7m7ct>

Technical Bulletin 014(B) updated

Minor updates have been made to Technical Bulletin 014 (B) Working within scope of work categories. You can read and download the TB by logging into your Gas Safe Register online account



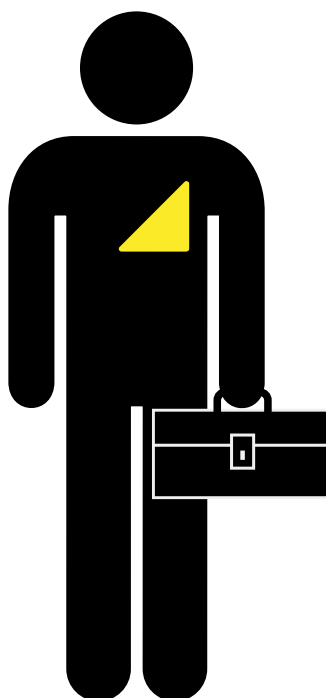
Look out for our 2026 reader survey

We want to make sure *Registered Gas Engineer* continues to be informative, relevant and valuable to you, and that you can receive it in your preferred format.

Our 2026 reader survey will help us find out more about you and your work and how that may have changed since our last reader survey.

It will also help us understand how you prefer to keep up to date with essential gas safety information and news from around the industry, so that we're providing what you really want and need – and in the way you prefer it.

We hope you will be able to take part. Your responses will help us to make the magazine as interesting and useful to you as possible



Please look out for our September enews, which will include your link to take part. The survey will run through September and October and we will share the results with you in early 2027.

Resources for the next generation

Starting a career in the gas industry can be challenging but the Gas Safe Register Student Hub is here to help.

Developed by Gas Safe Register with support from HSE and Talan, the Hub provides trusted guidance for students, apprentices and trainees throughout their training and early careers.

Resources include information on Gas Safe registration, safety and compliance, career pathways and technical support to help build confidence and support safe practice.

If you work with students or apprentices, please help spread the word and share the Student Hub with your networks.

www.gassaferegister.co.uk/student-hub/



How are YOU supporting Gas Safety Week?



It's time to get ready: the gas industry's biggest annual event is nearly here.

14-20 September 2026

This year will see the 16th Gas Safety Week, dedicated as always to raising awareness of gas safety and encouraging consumers to take positive action to stay gas safe. The week-long event sees hundreds of supporters from all corners of our industry coming together with one goal: to keep the nation gas safe.

This year's theme is Take No Chances. It's a simple but important reminder about gas safety: if something does not

feel right, do not ignore it. If an appliance needs checking, do not put it off. And if gas work needs doing, always choose someone qualified and Gas Safe registered.

This flexible theme gives everyone the opportunity to unite behind a single, powerful message. And, as always, you can take advantage of free tools from Gas Safe Register to help you show your support.

The Gas Safety Week toolkit is packed full of useful ways to share and amplify gas safety messages with your own customers and audiences. When you

download the toolkit, you'll find pre-written social media posts, leaflets and posters, logos, images, articles, factsheets and a press release template.

On social media, every day has a different focus and message, helping to build momentum throughout the week.

How you can get involved

- Download the free Gas Safety Week toolkit
- Update your website with free images in the toolkit
- Share daily updates on your social media channels, using either the pre-written messages or your own updates
- Leave leaflets and factsheets with your customers or with your local community groups
- Contact your local news outlets using the press release template.



You can download the free toolkit at:

www.GasSafetyWeek.co.uk

You can order printed leaflets and posters at:

www.GasSafeRegister.co.uk/leaflets



Fake fitter left dangerous gas leak

If you find work that you think may have been carried out illegally, you can report it by filling in the "Report Illegal Gas Workers" form in the engineers' section of the Gas Safe Register website at: www.gassaferegister.co.uk/gas-safety/concerns-reporting-illegal-gas-work/. Alternatively, you can call on 0800 408 5577 or report concerns by email at: nonreg@gassaferegister.co.uk



A Birmingham handyman has been given a suspended prison sentence after he left dangerous gas work and falsely claimed to be registered.

Dudley Magistrates' Court heard that Jaroslaw Mazan had been hired by the landlord of a property in Birmingham. In November 2023, the tenant, who saw Mr Mazan installing a boiler, asked if he was registered, which Mr Mazan claimed he was. The tenant later checked on Gas Safe Register's website but could not find him and alerted the Register.



Gas Safe inspectors found his work had several defects, including a gas escape on the pipework (above), which was Immediately Dangerous. HSE investigated and prosecuted him.

Jaroslaw Mazan, from Walsall, pleaded guilty to breaching the Regulation 3(3)

of the Gas Safety (Installation and Use) Regulations 1998. He was given a 26-week suspended sentence and ordered to pay £500 in compensation to the tenant.

HSE inspector Harry Shaw said: "This dangerous boiler fitting was a disaster waiting to happen and the resultant gas leak could easily have caused a lethal explosion."

"The tenant did the right thing – and quite possibly saved themselves from serious harm – by checking the Gas Safe Register and alerting inspectors when they realised Jaroslaw Mazan was unregistered."

Illegal gas worker touted for business on Facebook

An illegal gas fitter who claimed to be registered on social media has been given a suspended prison sentence after carrying out dangerous work on homes in the North-east of England.

South Tyneside Magistrates Court heard that Alexander Robson, 38, from Fenham, Newcastle-upon-Tyne, advertised his services on Facebook and used flyers with the Gas Safe logo despite the fact he wasn't registered.

Robson traded under names including GasnHeat Plumberz and North East Renocationz and carried out gas work on boilers and fires at five homes in Blyth,

Ryton, Hexham, Winlaton and Newcastle.

As well as working illegally, his work was sub-standard and endangered the lives of those living in the properties.

Robson had been registered previously aligned to various businesses until 1 February 2024, but continued to work for several months after he was no longer registered.

The HSE investigation found Robson had worked in five homes between June and September 2024. This included boiler replacements as well as installing gas pipework, working on boilers and gas fires, and disconnecting gas appliances.

Alexander Robson pleaded guilty to 10 breaches under the Gas Safe (Installation and Use) Regulations 1998. He was sentenced to eight months in prison, suspended for two years. He was ordered to complete a six-month mental health treatment requirement and to complete 30 days of rehabilitation activity with the probation service. He was also told to pay £450 compensation and £200 in costs.

HSE inspector Darian Dundas said: "These breaches were carried out brazenly and in the open using social media and faking the Gas Safe logo to tout for business."



Jail for men who ripped out boilers and heat pumps from 450 homes

Four men have been jailed for stealing boilers, heat pumps and white goods in a series of burglaries targeting new-build homes across the country.

Hertfordshire Constabulary led a national investigation into an organised crime group that was responsible for burglaries at new housing developments across 10 counties.

The group targeted new-build houses, forcing entry by smashing windows. The burglaries between January and October 2025 caused extensive damage to the properties, with live gas and water pipes often left severed.

In some cases, the homes had already been sold and buyers were waiting to move in.

In total, 449 properties were targeted, with losses exceeding £1 million.

As part of the investigation, officers identified four suspects who were arrested and charged with conspiracy to commit burglary. All four pleaded guilty and were sentenced at St Albans Crown Court.

They were Ilie Turan, 26, from Northampton, who was sentenced to four years and 10 months in prison; Tudor Ionas, 25, from Northampton, who was sentenced to four years and nine months; Dinis Cibotari, 24, of Avondale Court, London, who was sentenced to four years and two months; and Victor Borta, 19, from Northampton, who was sentenced to three years and 11 months.

Detective Constable

Tilly Andrews, investigating officer from Operation Linkage, the constabulary's response to home burglaries, said: "This group carried out a large-scale series of burglaries which caused more than £1 million worth of losses and left hundreds of properties damaged.

"Their actions affected developers and buyers who were eagerly waiting to move into their new homes. In many cases, they also created serious safety risks by leaving gas and water pipes exposed.

"These sentences ensure the four men responsible have been held to account and faced justice for the damage they caused."



Dangerous work risked young family's lives

A father and son have been prosecuted after their illegal gas work in Stoke-on-Trent risked the lives of householders including a young baby.

Wrexham Magistrates Court heard that Wayne Culliss, 55, had sub-contracted boiler replacement work to his then 18-year-old son Kazys, despite the fact that neither were or ever had been qualified or Gas Safe registered.

The HSE prosecuted after its investigation found that a British Gas engineer had

attended a rental property in Hanley on 1 December 2023: the tenant said the boiler was hissing and leaking cold water. The boiler was found to be dangerous and taken out of use, prompting the landlord to contact Wayne Culliss. Wayne Culliss was a landlord himself, who also helped with the management of the property, and he arranged for a new boiler to be installed.

Wayne Culliss sub-contracted the job to his son, Kazys, who carried out the

illegal work on 9 January 2024. When another British Gas engineer inspected the boiler two weeks later as part of a gas safety check, he could smell gas and immediately isolated the supply. After carrying out a tightness test, he found a leak and capped the supply.

Kazys Culliss of Boot Street, Whittington, pleaded guilty to contravening Regulation 3(1) of the Gas Safety (Installation and Use) Regulations 1998. He was sentenced to a 12-month

community order and ordered to complete 140 hours of unpaid work plus £500 in costs.

Wayne Culliss, also of Boot Street, Whittington, pleaded guilty to breaching Section 3(2) of the Health and Safety at Work etc Act 1974. He was fined £3,000 and ordered to pay £2,500 in costs.

HSE inspector Rob Gidman said: "The work carried out by Kazys Culliss, under the instruction of his father, Wayne, was reckless and put people at risk of serious harm."

Caught on camera

What's the worst gas work you've seen lately?

You can share your photos with the Gas Safe engineer community on our Wall of Shame by emailing us at: editorial@registeredgasengineer.co.uk



FROM **COLIN KIRK**

Colin found this wood-burning stove fitted inside a motorhome with a makeshift flue that was burning the roof skin. Directly below it was an open gas line where the heater used to be, which was only turned off at the isolation tap.

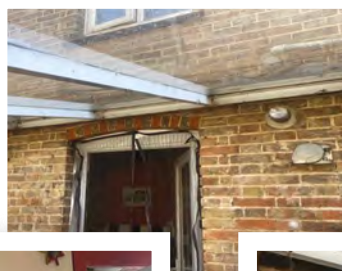
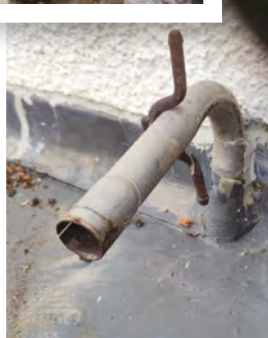
FROM **RALPH DAVIES**

Can you spot the gas meter? Ralph informed the homeowner that this walled 'cavity' would need to be taken down immediately or the installation would be reported to the gas transporter. It was removed there and then.



FROM **TIM POTGIETER**

We've seen some strange makeshift plume kits before – but Tim's find may take pole position: it was made out of a car exhaust.



FROM **SHAUN WOOD**

On an annual boiler service, Shaun found bubbling on the flue. One gentle touch and it disintegrated. He installed a new flue, sealed it internally and externally, and completed the service.



FROM **DAVID WEBSTER**

Nobody had managed to get into the property for years, when David carried out a landlords' gas safety record check, to find a full conservatory had been built over the flue. David capped off the boiler.

intouch yourview yoursay

What's on your mind? Share your views with more than 80,000 readers

Are gas engineers at the top of the trades tree?

Paul Herdman

Firstly, thank you to all at *Registered Gas Engineer* on producing a great source of information for us all. It's very much appreciated and always educational and interesting.

Reading your latest edition promoted a discussion between gas engineers and so I thought I might write it up as you invited comments and feedback.

It's not too long ago that I sat in front of an industry specialist and patiently listened to a monologue on how the gas engineer stood top of the construction industry tree. The gas industry, he claimed, "demands great responsibilities and as such requires a level of expertise that commands the highest rewards financially amongst trades as the consequences of shortcuts can be deadly".

Being thorough

Following this were stories of some real-world events that demonstrated just how thorough a gas engineer had to be as errors or deficiencies can often be far more consequential than in other trades.

It really reminded me of the high value of our industry and an appreciation of how skilled its operatives need to be to ensure that the highly regulated rules and procedures are rigorously adhered to.

Our safety responsibilities

require such studious application that many plumbers don't ever bother qualifying for gas: it's just too much hassle, and others drop out of the industry as they find the responsibilities too much of a burden.

High standards

So when I read about the changes to the tightness testing and calculating the installation volume, etc, it only reiterated the high standards required and also the time involved in performing our jobs to these standards. This does pose questions as I see an ever-increasing devaluation of the industry and this unfortunately results in a decrease in standards.

On a recent job, the tiler was paid more for two days' work on a small bathroom than the gas engineer for three days' work. The customer admitted they could not get a cheaper tiler but cheap gas quotes were not a problem.

The big question is how has this come about? How is it that a company advertising in Bradford recently (and they are not alone) feel that their work is so worthless that they have to resort to such degrading pricing: £35 for a landlord's gas safety record check, boiler servicing £30, and boiler supplied and fitted £899?

And what of those characters performing illegal and dangerous gas work? Well your latest issue

informs us they get a lenient suspended sentence and a very small inconsequential fine. That's not a deterrent and may even be considered by these rogue traders as an encouragement to chance it.

If you set out to drive down costs and standards, it surely will lead to cutting corners and accelerate the decrease in industry standards – and that should be a concern worth addressing.

No time

Countless times I hear the customer say: "The last engineer didn't want to be in the cupboard to see the meter" or "the last guy didn't need to look at the flue in the loft". We probably know why: because he maybe charges well below the industry's true value and is inundated with work so hasn't got the time.

Gas safety campaigns are great and we all fully support them but should the industry not also address this elephant in the room and scrutinise the work of businesses who openly devalue this industry and who are driving standards down? Or am I completely wrong, out of touch, overpriced and just bad at business?

Was our gas industry expert correct in his assertion that the gas engineer is at the top of the construction trades tree? In my opinion and experience, if it was once true, in 2026 it most definitely is not, probably not even close.

Please send your letters, which may be edited, to **editorial@registeredgasengineer.co.uk**



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Rated Excellent by our customers!

Technical Bulletins: what are they for?



Technical Bulletins have a unique purpose as guidance that fills in information or knowledge gaps that can sometimes appear when standards or regulations are written or updated.

They've been around for a long time but, despite what you might think, they are not owned by Gas Safe Register: they are owned by the organisation that writes them. Gas Safe's role is to register them, maintain them in a central repository that all gas engineers can access, and to let gas engineers know when a bulletin has been updated or a new one created.

What do they cover?

More than 160 Technical Bulletins cover a huge range of different aspects of our industry. They are written by the Technical Bulletin Committee, of which Gas Safe Register is a member, sometimes bringing in specialist expertise and knowledge when required – for example, the recently published TB 163 on the requirements for commissioning appliances connected to custom or specialist flues systems.

How long are they valid for?

The Technical Bulletin Committee review the

documents regularly. They may be updated when standards or regulations are updated, or withdrawn if the gap in knowledge or information has been closed within these updates.

Older, legacy Technical Bulletins that cover, for example, appliances that are no longer manufactured or where the manufacturer itself no longer exists, may remain valid but cannot be updated. Gas Safe Register is working towards creating an archive for these.

The committee will withdraw a Technical Bulletin if it is no longer necessary or if the guidance it contains becomes incorrect or outdated because of standards or legislative changes.

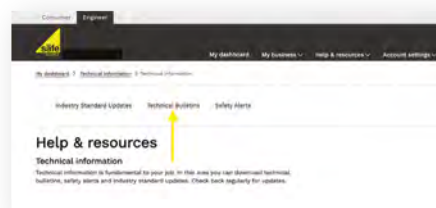
For example, the guidance TB 008 (Flues in Voids) now forms part of Approved Document J and BS 5400 Part 1. It is still valid and current but may be withdrawn at the next committee review.



Where can I find out if there is a Technical Bulletin that covers the work I'm doing?

Technical Bulletin 000 is the comprehensive index of all 160+ Technical Bulletins held by Gas Safe Register. Sign into your online account at www.GasSafeRegister.co.uk/sign-in and visit the Technical Information area.

Choose Technical Bulletins



TB 000 should always be one of the newest because it is updated every time a Technical Bulletin is published.

How do I know whether a Technical Bulletin has been updated?



TB 000 lists all Technical Bulletins by the number, subject, publication date and status. The status will indicate whether a Bulletin is current or has been withdrawn. All updates to Technical Bulletins are communicated via *Registered Gas Engineer* magazine in print and via the monthly enews, website and social channels. ■



Please make sure your email address held by Gas Safe Register is up to date so that you receive the latest information about important technical updates from the Register and Registered Gas Engineer magazine.

Responsibilities when disconnecting or reconnecting gas cooking appliances utilising self-sealing connectors

Developed by Technical Bulletin Committee

Date issued: 3 August 2026

This Technical Bulletin provides guidance on who is permitted to disconnect and reconnect an appliance to an existing self-sealing connector (or bayonet fitting), for example, a gas cooker, and permanently removing a self-sealing fitting.

Introduction

The debate around who is permitted to disconnect and reconnect a self-sealing connector (or bayonet fitting) serving a gas cooker has led to different opinions being offered, eg, where appliances are disconnected and reconnected by other trades as part of a property refurbishment, or by a removal and/or storage company.

The aim of this Technical Bulletin is to clarify the requirements of the relevant legislation, to ensure that any person involved in any kitchen refurbishment process or similar activities is working within the requirements of the law (see also Appendix 1 at the end for details of relevant regulations and guidance).

Legislation

The primary legislation relevant to the safe installation, maintenance and use of gas systems and appliances in Great Britain is the Gas Safety (Installation and Use) Regulations 1998 (GSIUR) (see Note 1). This legislation, along with the Approved Code of Practice and Guidance – Safety in the installation and use of gas systems and appliances (ACoP)⁽¹⁾ – published by HSE, describes what is considered ‘work in relation to a gas fitting’ (‘gas work’) and provides guidance on what needs to be considered when disconnecting and/or reconnecting any self-sealing appliance connector (see

also Appendix 1 for relevant regulations and guidance).

Note 1: Similar legislative requirements apply in other geographical areas covered by Gas Safe Register. For details of current gas safety legislation, building legislation and industry standards for the geographical areas covered by Gas Safe Register, see the Legislative, Normative and Informative Document List⁽²⁾ by logging into your Gas Safe Register online account.

Note 2: For further guidance on what is regarded as ‘gas work’ when undertaking ‘Work’ as defined in GSIUR, see Technical Bulletin 014⁽³⁾.

Where a gas cooker is installed for the first time or repositioned permanently, it is considered gas work within the meaning of the GSIUR and must therefore be carried out by a Gas Safe registered engineer who holds the appropriate proof of competence.

The temporary disconnection/reconnection (at the same location) of a self-sealing appliance connector where a gas cooker is not being installed for the first time or repositioned permanently is **NOT** deemed gas work and therefore may be carried out by a non-registered person(s): for example, when a homeowner temporarily removes the cooker when cleaning.

The alteration of any gas installation pipework to allow the cooker to be permanently

repositioned is considered gas work.

Disconnection of a cooker

When a person **AT WORK** disconnects or re-connects a self-sealing connector, they must be competent to a level that will ensure that the action of doing so does not cause gas to escape. It is recommended that proprietary bayonet blanking fittings are fitted to the bayonet opening until the appliance is to be reconnected.

While a self-sealing connector is considered an appropriate fitting, where a cooker is being permanently removed, it is advised that a suitable fitting (such as a screwed plug or cap) is installed in place of the self-sealing connector. This option would involve gas work and is only to be carried out by a suitably qualified Gas Safe registered engineer.

Conclusion

Where any alteration is to be made to a premises that involves gas work, as defined under GSIUR, or where it may affect the safe operation of a gas appliance/installation, the responsible person for that work needs to ensure that a registered gas engineer is consulted. Such consultation is essential before any refurbishment work starts and may be required both during and after its completion. This will help to ensure that the gas appliance(s)/installation remain safe to be used.

Note 3: For general information about the process behind the development of Gas Safe Register Technical Bulletins and the expectations for all stakeholders, see TB 1000⁽⁴⁾.

Bibliography

- (1) Safety in the installation and use of gas systems and appliances – Gas Safety (Installation and Use) Regulations 1998 Approved Code of Practice and Guidance – L56 (Fourth Edition) 2013 - www.hse.gov.uk/pubns/priced/L56.pdf
- (2) Gas Safe Register Legislative, Normative & Informative Document List
- (3) TB 014 - Gas Work
- (4) TB 1000 - An introduction to Gas Safe Register Technical Bulletins

APPENDIX 1 Legislation

The following requirements/guidance are taken from the GSIUR and the ACoP to the GSIUR in Great Britain (see Legislation in the main part of this Technical Bulletin).

Regulation 2(1) of GSIUR defines work as:

“Work” in relation to a gas fitting includes any of the following activities carried out by any person, whether an employee or not, that is to say –

- a) installing or re-connecting the fitting;
- b) maintaining, servicing, permanently adjusting, disconnecting, repairing, altering or renewing the fitting or purging it of air or gas;
- c) where the fitting is not readily movable, changing its position; and removing the fitting.
- d) Removing the fitting; but the expression does not include



the connection or disconnection of a bayonet fitting or other self-sealing connector.”

Guidance Note 57 to Regulation 2(1) states:

“For the purpose of the definition of ‘work’, readily movable appliances include appliances such as laboratory Bunsen burners and mobile barbecues, which are readily portable. Other appliances, eg, free-standing cookers connected by standard flexible hose, are not considered to be ‘readily movable’, but can be moved temporarily, eg, to clean the space they normally occupy; this type of activity is not regarded as ‘work’ within the meaning of GSIUR. Where an appliance is connected by means of a bayonet fitting, this will need to be disconnected before moving the appliance – such disconnection is also excluded from the definition of ‘work’, as is the connection or re-connection of this type of fitting.”

Regulation 6(3) of GSIUR states:

“Any person who disconnects a gas fitting shall, with the appropriate fitting, seal off every outlet of every pipe to which it is connected.”

Guidance Note 119 to Regulation 6(3) of GSIUR states:

“This regulation is largely intended to deal with situations in which gas appliances are

removed, for instance because they are no longer needed or are being taken away when owners moved home. When an appliance is disconnected and open-ended pipework is left, the pipework should always be left sealed with an appropriate fitting.”

Regulation 6(5) of GSIUR states:

“No person searching for an escape of gas shall use any source of ignition.”

Guidance Notes 121 to Regulation 6(5) of GSIUR states:

“This prohibition extends to householders and other members of the general public.”

Guidance Notes 122 to Regulation 6(5) of GSIUR states:

“The source of leaks should be located by sense of smell, gas detection instruments approved for use in flammable atmospheres, leak detection fluids, pressure test equipment or a combination of these methods.”

Regulation 8(1) of GSIUR states:

“No person shall make any alteration to any premises in which a gas fitting or gas storage vessel is fitted if that alteration would adversely affect the safety of the fitting or vessel in such a manner that, if the fitting or the vessel had been installed after the alteration, there would have

been a contravention of, or failure to comply with, these Regulations.”

Guidance Note 139 to Regulation 8(1) states:

“This regulation embraces a wide range of physical alterations to premises that might affect the safety of an existing gas fitting or gas storage vessel installed in the premises where the alteration is to be made (see paragraph 146). Before a significant alteration to premises where a gas appliance is installed (eg, installation or removal of windows, air bricks, extractor fan units, etc) any implications for gas appliance/fitting safety should be properly addressed.”

Regulation 8(2) of GSIUR states:

“No person shall do anything which would affect a gas fitting or any flue or means of ventilation used in connection with the fitting in such a manner that the subsequent use of the fitting might constitute a danger to any person, except that this paragraph does not apply to an alteration to premises.”

Guidance Note 147 to Regulation 8(2) states:

“This regulation applies to everyone, not just gas installers. It supplements regulation 8(1), by prohibiting other activities (ie, except alteration to premises) which have the potential to compromise safety. This

might, for instance, include modifications which cause blockage/obstruction of an air supply vent or flue, or incorrect installation of an air extraction or condensation control unit. As with regulation 8(1), it is essential for the implications of any such change or modification to be properly addressed before work is commenced, to ensure that gas safety cannot be prejudiced in any way.”

Guidance Note 148 to Regulation 8(2) states:

“Modification of any gas fitting should be made only by a competent person who is, or is employed by, a member of an HSE approved class of persons (eg, Gas Safe registered) under regulation 3(3). Alterations not comprising ‘work’ on a gas fitting but which nevertheless may affect gas safety (eg, a change to the provision of ventilation in a room) should also be made only by a competent person. Similarly, any significant modification needs to be checked by a competent person before the gas fitting concerned is taken into use, to ensure that appropriate standards have been met and safety has not been compromised (see regulation 26(9)).”

Note A1: Similar legislative requirements apply in other geographical areas covered by Gas Safe Register (see also Note 1 in main part of this Technical Bulletin).

From the helplines

Gas Safe Register's Technical Helpline receives around 5,000 calls every month on a huge range of topics. Here are just some of the questions that have been asked recently.



Q: Is equipotential bonding always required on gas installation pipework?



A: Not necessarily. The gas engineer's job is not to determine whether bonding is required but to report to the customer if the bonding does not appear to be present or appears to be incorrectly located or sized. Advise your customer to employ a qualified electrician to determine whether bonding is required, and leave an appropriate bonding notice.

Q: What is the correct working pressure that should be available at the gas meter test point when testing an appliance?

A: The working pressure recorded at the gas meter outlet test point should be between 18.5mbar and 23mbar. This should be obtained when the highest-rated appliance is operating in its highest normal operating mode, with any other appliance run at 50% load.

Any pressures recorded outside this range must be reported to the supplier. Guidance on this subject can be found in IGEM/G/13⁽¹⁾.



Q: Can I work on a back boiler unit without the HTR1 ACS qualification?

A: If the back boiler unit has a gas fire connected to the front of it, then you must hold HTR1 to work on it.

Q: I've been asked to replace a boiler but the existing flue goes over the boundary into next door's garden. Can I fit it in original position?



A: No. Any gas appliance must be fitted in accordance with current Gas and Building Regulations. The flue termination must comply with relevant standards and building regulations, which all state that a flue cannot terminate over the boundary of another property.

Q: I've been asked to replace a boiler in a flat but the existing boiler flue goes through another flat. Can I run the new flue that way?

A: No. The new appliance must be fitted as per current requirements: running a boiler flue through a dwelling other than the one it serves is not permitted, as per Building Regulations Approved Document J. You can find guidance in BS 5440 Part 1⁽²⁾ and Technical Bulletin 008 Edition 3⁽³⁾.

Q: Do all commercial kitchen extraction systems require interlock?



A: All new extraction systems must be interlocked with the gas supply. When an existing extraction system is extended or modified or a Type B appliance is replaced below an existing canopy, then the system should be upgraded to a type that contains an interlock system. If a type A appliance is replaced, then upgrading to an interlock system is recommended.

Q: Is a kitchen isolation valve at the point of entry into a commercial kitchen a requirement?

A: A manual isolation valve should be installed as near as is practicable to the point of entry/exit to the kitchen in an accessible location. A test point should also be installed downstream and within 300mm of this valve.

If the pipework enters the kitchen in a position that is not readily accessible, an automatic shut-off valve controlled by an emergency control button can be used.

Q: What is the ACS competency required for working on mobile catering vehicles?

A: The competency for working on commercial mobile catering installations is CoNGLP CMC1 plus any relevant appliance categories.

Q: I've been asked to fit a new boiler. Can I use the existing flue?

A: Room-sealed fan flue gas boilers require a specific flue designed for the appliance. To re-use an existing flue, you need confirmation from the manufacturer that the old flue was appropriate. It would need to be inspected to determine whether the installer is happy to leave the old flue connected to the appliance.

Q: If the flue is too near a window, can I use a plume kit?

A: You must confirm with each manufacturer whether they have an option to use such an accessory, as not every manufacturer allows one to be used for this purpose.

As a general rule, a plume management kit is not to be used for overcoming termination issues. ■

Bibliography
(1) IGEM/G/13
Domestic supply capacity and operating pressure at the outlet of the meter
(2) BS 5440-1 *Flueing and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases). Specification for installation of gas appliances to chimneys and for maintenance of chimneys*
(3) Technical Bulletin 008 Edition 3: *Existing concealed room-sealed fanned-draught boiler chimney/flue systems in domestic premises*

You can read and download Technical Bulletins by signing into your online account at:
www.GasSafeRegister.co.uk/sign-in





G3 compliance guide for unvented hot water systems

A new technical guide helps to navigate the regulatory requirements for unvented hot water systems.

Unvented Hot Water Systems: Regulatory Compliance Explained addresses some of the most frequently asked questions about the regulations and requirements of Approved Document G3 and the Water Supply (Water Fittings) Regulations on modern hot water installations. The guide, published by the Hot Water Association (HWA) and HPA UK, has been developed in response to growing need for clearer guidance for all unvented cylinder installers, including those in heat pump systems.

The guide has a practical question-and-answer format to address the issues most frequently encountered by installers working with unvented hot water systems. It is intended to encourage consistent interpretation of the regulations across the industry while supporting the safe deployment of low-carbon heating technologies.

The rules haven't changed

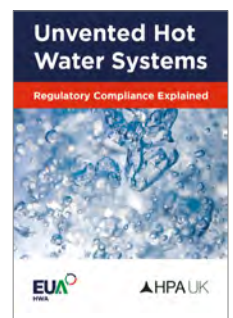
Although heating technologies are evolving rapidly, the guide highlights that the regulatory framework governing unvented hot water systems has not changed. Regardless of whether an unvented cylinder is heated by a gas boiler, heat pump, solar thermal system or another heat source, the same statutory safety requirements

continue to apply.

The guide sets out the legal requirements in Approved Document G3, including the need to prevent stored water exceeding 100°C and to ensure that any discharge from safety devices is conveyed safely. It also summarises the key provisions of Schedule 2 of the Water Supply (Water Fittings) Regulations, covering temperature controls, relief valves, expansion control and discharge arrangements.

It highlights the importance of installer competence through recognised G3 qualifications or membership of a competent person scheme, alongside following the manufacturer's installation instructions.

Stewart Clements, director of the Hot Water Association, said: "The growth of heat pumps has raised understandable questions about how existing regulations apply to new system designs. This guide has been developed



“The guide explains how Approved Document G3 and the Water Regulations should be interpreted.”

Recognising that some manufacturers deploy alternative third-party-approved control strategies in integrated boiler or heat pump cylinder packages, the guide explains when these approaches may be acceptable. Installers are reminded that if they wish to use a different approach, any deviation from a third-party-approved product configuration should first be supported in writing by the manufacturer and agreed with the relevant Building Control body.

The publication also reinforces that responsibility for regulatory compliance rests with the installer, designer or builder undertaking the work.

to explain to installers and specifiers how Approved Document G3 and the Water Regulations should be interpreted in today's market.”

Nancy Jonsson, technical consultant to the HPA UK, added: “The Frequently Asked Questions have been developed as the result of collaborative efforts from leading industry experts.

“They provide installers with useful reminders when fitting unvented hot water cylinders and highlight the importance of following existing regulations and cylinder manufacturer's instructions to ensure that safety devices are correctly fitted.” ■

Unvented Hot Water Systems: Regulatory Compliance Explained is free to download at: <https://tinyurl.com/24bjahex> and <https://tinyurl.com/mr2x9w79>



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startathome.org.uk/schemes

Start at Home brings together companies that help heating engineers fit a government-funded heat pump at home. Installation may not be fully subsidised, additional costs may apply. Scheme participation and the Boiler Upgrade Scheme and Home Energy Scotland funding are subject to eligibility and T&Cs.



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Your tax return myths busted

HMRC separates the facts from the fiction about filing a self-assessment tax return.

MYTH: I have to wait until 31 January to submit a self-assessment tax return.

FACT: You can submit now and avoid last minute stress.

MYTH: There's no benefit to me by submitting now.

FACT: If you're due a refund, HMRC can process it sooner and you'll receive the money faster. Early filing means you won't have to rush to file by the deadline. You'll also know what you owe, so you can plan or set up a Budget Payment Plan. And you can also use your return as proof of income for things like loan, mortgage and benefit applications.

MYTH: HMRC hasn't contacted me, so I don't need to file a tax return.

FACT: It is your responsibility to work out whether you need to file a self-assessment tax return. Many people need to register and file because they received self-employment income, untaxed income, foreign income, partnership income, or they incurred the High Income Child Benefit Charge. They may also need to complete a return to claim certain tax reliefs. You can check if you need to file a tax return by using the online checker.

MYTH: I have to pay my tax bill as soon as I submit my return.

FACT: Incorrect. Filing early does not mean you have to pay early. Even if you submit your return early, the deadline to pay the self-assessment tax bill is not until 31 January following the end of the tax year. HMRC also allows payments to be spread using a Budget Payment Plan. You retain full control over when you pay, and you can use options like instalments or payment arrangements to spread the cost.

MYTH: If I don't owe any tax, I don't need to file a return.

FACT: If HMRC has sent you a letter telling you to file a tax return, then you will either need to file one by the deadline or agree with them that you don't need to file. You may still need to file a return even if no tax is due. Not filing when you are required to can still result in you incurring penalties.

MYTH: HMRC will automatically remove me from self-assessment if I no longer need to file.

FACT: HMRC will not automatically remove you. If you stop being self-employed or no longer need to file a

return, you must tell HMRC: don't assume they already know or that somebody else will tell them. Otherwise, HMRC may expect a return and will issue a late filing penalty if that return is not filed on time. Information on how to do this is available on GOV.UK

MYTH: Self-assessment is only for full-time self-employed people.

FACT: Self-employment is only one of the reasons why someone may have to file a self-assessment tax return. Other reasons include people with side income over certain thresholds; partners in business partnerships; people with significant untaxed income; people receiving foreign income or people who incur the High Income Child Benefit Charge. Certain tax reliefs are also claimed through completing a self-assessment tax return. Being a PAYE employee does not automatically remove the need to file a return. The best way to find out if you need to file a tax return is to use the checker on GOV.UK

MYTH: If I make a mistake on my tax return, I'll automatically be fined.

FACT: Incorrect. Genuine mistakes can usually be

Q: How do I submit a Self-assessment tax return?

A: Use HMRC's online service. You can start now, save your progress and then finish it and submit it later.

Q: Why should I file my self-assessment tax return early?

A: Filing early gives you peace of mind, helps you avoid the last-minute January rush, and may result in a faster tax refund if you're owed money. It also provides certainty about how much tax you owe, allowing you to budget and plan ahead with confidence. It also removes the risk of any late filing penalty if you were to miss the filing deadline.

Q: Does Making Tax Digital for income tax impact self-assessment?

A: HMRC is introducing Making Tax Digital for Income Tax in phases from April 2026. If MTD applies to you, then you still need to submit a self-assessment tax return for the 2025 to 2026 tax year. You can check if MTD applies to you and from what date, on GOV.UK.

Q: Where can I find more information or help with filing?

A: Visit GOV.UK or watch HMRC YouTube videos for information.

corrected by you or by HMRC. After you have filed your return, you then have a 12-month window to make any amendment to that return, which starts from the applicable filing date for that return. Penalties for inaccuracies on a return generally depend on whether they were careless, deliberate or deliberately concealed. Honest errors corrected promptly are treated more leniently.

MYTH: Self-assessment is only about paying tax.

FACT: Self-assessment returns are filed for a number of reasons. Some people complete them to claim job-related expenses or to claim tax relief on pension contributions. Some people may have paid too much tax in a year and filing their return enables them to get that overpaid tax refunded. Self assessment is also a way for self-employed people to pay (or get credit for having paid) Class 2 National Insurance Contributions, which provide entitlement to certain benefits such as the State Pension. ■

Self Assessment: step-by-step

Check if you need to do a
Self Assessment tax return



Check to find out

Register

Register for Self Assessment by **5 October** if you're doing a tax return for the first time



Get your information together for your tax return – your income, expenses and **HMRC login** information



Submit

Submit your tax return online – the deadline is **31 January**. Don't forget to keep your financial records.



Check and pay what you owe before **31 January**



Pay what you owe



Get ahead – submit your tax return early for peace of mind

Find help, videos and support on

GOV.UK

Unpaid invoices and how to deal with them

Gas engineers are owed an average of nearly £6,000 in unpaid invoices. Benjamin Dyer, CEO and co-founder of Powered Now, looks at how this can happen – and what to do about it.

Picture the scene. You have just eaten a very good dinner at a restaurant. The waiter brings the card machine and you wave it away, telling them you'll settle up later. Sooner, "if things pick up". Then you walk towards the door.

That's what lots of gas engineers deal with every day. You walk into your customer's home, registered and with hard-earned qualifications. You put your hands on the only appliance in the house that can poison a family in their sleep or blow the whole place sky-high. You leave them warm. Then you hand over a bill and drive off. Often with no deposit and no way to repossess the heat you have just given them: nothing but a piece of paper and the hope that one day it gets paid.

Ghosting

Yes, some engineers take a card machine to the door and get paid on the spot and they are the ones who have this cracked. But plenty still do it the old way, on trust. Usually the money turns up. But not always.

We've recently published a report, The NOW Report, which found that 30% of tradespeople have had a customer look them in the eye and simply refuse to pay for finished work. Half have been ghosted from the moment the job was done.



The average gas engineer is owed £5,901 right now and more than one-quarter are carrying more than £10,000 in invoices that were earned, delivered and never honoured. That is not bad luck. That is a business model and you are the one funding it.

And 60% of tradespeople have written off money they were owed because chasing it was too much hassle.

It doesn't land the same way on everyone. If you are a sole trader, the loss comes straight out of your own pocket and the chasing eats your own evenings. If you have an office and someone on credit control, you have not dodged it, you have just put it on the payroll.

Either way, you pay. The only question is whether it

comes out as lost money or as wages.

You cannot cure human nature – but you can close the gap it hides in, which is nearly always the paperwork. The invoice sent from the doorstep the second the job is signed off, not typed up three nights later. Every quote, certificate and invoice is held in one place, so "I never got it" dies on the spot. Reminders that chase on their own, so nobody burns an evening doing it. It is a large part of why we built Powered Now and the truth is dull but reliable. People pay the moment they realise somebody is keeping score.

The very least you have earned is to be paid the way that restaurant gets paid. Every time. On the night. ■



Powered Now builds business software for gas engineers and other UK trades.
www.powerednow.com

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Lead Captured

9:41 AM



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Confirmation Sent

9:41 AM



Powered Now Receptionist
Call Answered

9:41 AM



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- ✓ Log costs and purchase orders as you go, ready for the books.

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4 priorities for the heating industry

Servicing and maintenance are more critical than ever, writes Martyn Bridges, director of External Affairs at Worcester Bosch, who shares his top priorities for Gas Safety Week 2026.

1

Uniform standards for landlords and owner-occupiers

Landlords are legally required to have an annual safety check on gas appliances in their rental properties. But there's one rule for landlords and none for owner-occupiers.

Homeowners face no obligation to regularly check or service their boiler, which I think is a misstep. The systems are the same and the laws should be too.

Regular checks enable homeowners to confirm their heating systems are clean, the combustion is set correctly, and no parts are worn to the point of needing replacement. They can also assess for leaks, water quality, and run predictive maintenance to prevent an unfortunate breakdown in the depths of winter.

Proactive checks would extend the lifespan of most boilers – and more people should be doing them.

2

National policy to complement commercial requirements

Despite the lack of enforcement, millions of households do have their appliances checked during an annual service, largely driven by commercial requirements.

Typically, new boilers must be serviced each year to keep an extended warranty valid.

Certain appliances may also require regular part changes – such as an electrode that needs replacing every five years or so.

It's a good thing that these appliances are checked on a regular cadence. But treating commercial fine print as a substitute for national policy can create unnecessary risk and expense when a young, poorly maintained boiler needs repairing.

3

Accommodations for tech and gas supply developments

What complicates matters is the growing portfolio of heating technology found in the average UK home. Many homeowners don't just have a gas boiler: they may also have an air-to-air heat pump to cool the house, which is becoming even more common thanks to recent sweltering temperatures.

A one-appliance household may not be the 'norm' for much longer, and more property owners will need a range of heating appliances inspected regularly.

Another factor is the changing composition of the gas supply entering properties. The proliferation of biogases

and anaerobic digestion systems in the national grid has seen the Wobbe Index range widened to accommodate more gas qualities.

The problem is that variable gas qualities can result in combustion not being as consistent as what we've been used to. It's important that appliances are checked regularly and comprehensively to accommodate these changes.

4

Multi-system engineers

Skills are another part of the conundrum. Gas engineers need the training, resources and experience to service multiple technologies. That would equip all-rounders with a certain competitive advantage over their peers.

Engineer capabilities would be particularly enhanced if they developed the necessary refrigerant skills to install, maintain and support air-to-air heat pumps and air conditioning units.

I'm sure that would be a valued service to many households that have taken the plunge on cooling systems as we continue to experience record-breaking temperatures. I can only see the market growing for engineers who can work across multiple technologies. ■



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The Gas Safe Register Legislation & Standards Document List

Date issued: 1 July 2026



Introduction

This document defines all documents recognised by **Gas Safe Register** as being Legislative, Normative (gas Standards) and Informative reference documents.

Some documents may only be available as hard copy documents but the majority are available to download, either via Gas Safe Register's engineer website or from the organisation or body promoting the document. In some cases, the document is only available for purchase from the organisation or a recognised supplier.

1. Hierarchy of Legislation and Standards

In this document list, the hierarchy of documents within the following tables is defined in order of significance.

Detailed first are those Statutory Acts, or regulations that are legally enforceable. These are followed by a recognised list of documents known as 'second tier' documents. This series of documents provides practical guidance on ways to comply with the functional requirements of regulations. This guidance is not law but provides information that, if followed correctly, will ensure that legal obligations have been met. Where someone chooses to depart from this guidance, they will need to ensure that the method chosen provides equivalent or better standards of safety than the relevant published guidance. The guidance provided within appropriate second-tier documents will be used to assess compliance.

The next tier of documents is gas industry standards that are aimed specifically at the installation, commissioning or maintenance of gas equipment (pipework, appliances, etc). These are known as Normative Documents and are referred to as Gas Industry Standards. These documents, in

conjunction with any available manufacturers' instructions, will be used by Gas Safe Register to assess compliance.

Finally, the remaining listings provide details of links to other available information that is considered useful to help enable registered businesses to comply with their obligations and assist them in carrying out their day-to-day activities. These are referred to as Informative Documents.

2. Hierarchy of documents

Legislation

In this section the listed documents are those brought to the Statute Book by an Act of Parliament and are referenced as Statutory Instruments (SI) or equivalent. These are the law in the respective countries as stated and must be followed. The SI Reference number (or equivalent) is preceded by the year of it being added to the Statute Book, ie, the Gas Safety (Installation and Use) Regulations 1998 has an SI Number of 1998:2451. Regulations are in general written in a format that provides high-level requirements.

Documents supporting legislation

These documents provide practical guidance on ways to comply with the functional requirements of the Regulations.

For the Building Regulations, these are outlined in a series of Approved Documents (ADs) published by the appropriate government department responsible for the Regulations. The ADs that currently apply to gas work are:

- A Structure
- B Fire safety
- F Ventilation
- G3 Hot water storage
- J Heat producing appliances
- L Conservation of fuel and power
- M Access to and use of buildings
- P Electrical safety in dwellings.

Each document contains general guidance on the performance expected of materials and building work in order to comply with each of the requirements of the Building Regulations, and practical examples and solutions on how to achieve compliance for some of the more common building situations.

3. Gas Industry Standards

In this section are included all the Gas Industry Standards published by the three current Standard Setting Bodies, which are:

- British and European Standards (BSI)
- Institution of Gas Engineers and Managers (IGEM)
- Liquid Gas UK (formerly known as UKLPG).

One standard is published by National Caravan Council (NCC).

4. Documents under review

When published, if it is known that the three-month validity period coincides with a period of time in which a standard being revised is out for public comment, the final date for comment will be included.

Gas Safe Register will use best endeavours to keep the documents under review as up to date as possible but Gas Safe Register is NOT responsible for reviewing, revising or updating industry standards. Where a registered business or industry stakeholder has an enquiry about revisions to guidance documents, these enquiries should be directed to the relevant Standard Setting Body.

Comments on draft standards can be submitted via BSI and IGEM.

5. Links to online documents

When viewing this document online, hyperlinks are active, so that you can open the document and then be read or it for later use. However, all saved documents will be considered as uncontrolled versions, and

you should check that you are referencing the current version.

6. Inspections undertaken by Gas Safe Register

When Gas Safe Register inspects work undertaken by registered gas businesses in Great Britain, Northern Ireland and the Isle of Man and Guernsey, in the first instance it will assess against the manufacturer's installation instructions and, where these are not available or relevant, against the criteria as specified within legislative documents and relevant gas industry standards. However, it is recognised that, due to the differences of individual legislation used in different geographical areas, there will be some differences in application. While conducting inspections, due regard will be taken of the requirements of all appropriate guidance.

7. General

This Gas Safe Register Document will be updated and republished on or about the following dates each year:

- 1 January
- 1 April
- 1 July
- 1 October.

If you identify an error in this document or you are aware of reference documents that may be useful that you think should be added to future editions, please email: **technical@gassaferegister.co.uk**

BSI, IGEM and Liquid Gas UK develop and publish guidance with the help of industry in the form of committees. Gas Safe Register is not responsible for the development and publication of this type of guidance document. Where registered businesses and stakeholders have questions regarding these guidance documents, these should be directed to the relevant Standard Setting Body.

8: LEGISLATION

Health and Safety Legislation

Health and Safety at Work etc Act 1974 (GB)

The Management of Health and Safety at Work Regulations 1999 (GB)

The Workplace (Health, Safety and Welfare) Regulations 1992 (GB)

Health and Safety at Work (Northern Ireland) Order 1978

Health and Safety at Work etc Act 1974 (of Parliament) (As applied to Isle of Man)

The Construction (Design and Management) Regulations 2003 (As applied to Isle of Man)

The Health and Safety at Work (General) (Guernsey) Ordinance, 1987 As Amended – Version 7 September 2020

Gas Safety Legislation

The Gas Safety (Installation and Use) Regulations 1998 (England, Scotland & Wales)

The Gas Safety (Installation and Use) Regulations (Northern Ireland) 2004

Gas Safety (Installation and Use) Regulations 1998 as amended & applied by the Gas Safety (Installation, Use and management) (Application) Order 2021 (As applied to Isle of Man)

The Health and Safety (Gas) (Guernsey) Ordinance, 2006 As Amended Version – May 2016

Safe Work with gas systems & appliances, Approved Code of Practice – Health & Safety at Work (Jersey) Law, 1989 – 1 February 2021

The Gas Appliances (Safety) Regulations 1995 (As applied in the United Kingdom)

The General Product Safety Regulations 2005

The Gas Safety (Management) Regulations 1996 (As applied in Great Britain) (AMD 2023)

The Gas Safety (Management) Regulations (Northern Ireland) 1997

The Gas Safety (Rights of Entry) Regulations 1996 (as applied to Great Britain)

The Gas (Northern Ireland) Order 1996, Schedule 5 (Powers of Entry, etc)

Gas Safety (Rights of Entry) Regulations 1983 as applied by the Gas Safety (Application) Order 1996 (Isle of Man)

Part 7 of The Health and Safety (Gas) (Guernsey) Ordinance, 2006 As Amended Version May 2016

Reporting of Injuries, Diseases and Dangerous Occurrences (RIDDOR)

The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR) (GB)

Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (Northern Ireland) 1997

Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1999 (RIDDOR) (Isle of Man)

The Health and Safety at Work (General) (Guernsey) Ordinance, 1987 (includes RIDDOR-type reporting)

Building Legislation

Building Regulations (England and Wales) 2010

Building and Buildings, England & Wales, The Building Regulations & C (Amendment) Regulations 2015

Building Regulations & C (Amendments) (Wales) Regulations 2013

Building Standards (Scotland) Regulations 2004

Building (Scotland) Amendment Regulations 2010

Building (Scotland) Amendment Regulations 2011

Building (Miscellaneous Amendments) (Scotland) Regulations 2013

Building (Scotland) Amendment Regulations 2022

Building Regulations (Northern Ireland) 2012

The Building (Guernsey) Regulations 2012

Building Bylaws (Jersey) 2007

Building Regulations 2014 (Isle of Man)

Construction (Design and Management) Regulations 2015 (Great Britain)

The Construction (Design and Management) Regulations (Northern Ireland) 2016

The Construction (Design and Management) Regulations 2003 (As applied to Isle of Man)

Building Control (Approved Documents) (No 2) Order 2019 (As applied to Isle of Man)

Other Legislation

The Workplace (Health, Safety and Welfare) Regulations 1992

The Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR) (GB)

Control of Substances Hazardous to Health Regulations 2002 (COSHH) (GB)

The Pressure Equipment (Safety) Regulations 2024

The Pressure Equipment (Amendment) Regulations 2015 (UK)

The Pressure Systems Safety Regulations 2000 (GB)

Control of Asbestos at Work Regulations 2002 (GB)

Control of Asbestos at Work (Northern Ireland) Regulations 2003

The Control of Asbestos Regulations (GB) 2012

The Control of Asbestos Regulations (Northern Ireland) 2012

Managing asbestos (Isle of Man)

HSE Guernsey – Management of Exposure to Asbestos in Workplace Buildings and Structures – ACOP

HSE Guernsey – Control of Asbestos – ACOP 2017

The Electricity at Work Regulations 1989 (GB)

Electricity At Work Regulations (Northern Ireland) 1991

Note 1: Further information on ordinances in Guernsey at: www.gov.gg/hseguidance

Note 2: Further information on legislation in the Isle of Man at: <https://pabc.gov.im>

9: DOCUMENTS SUPPORTING LEGISLATION

Key Approved Documents to the Building Regulations (England)

Approved Document 7: Materials and workmanship

B: Fire Safety – Volume 1: Dwelling houses

B: Fire Safety – Volume 2: Buildings other than dwelling houses

F: Ventilation Volume 1: Dwellings

F: Ventilation Volume 2: Buildings other than dwellings

G: Sanitation, hot water safety & water efficiency (2016 edition)

J: Combustion Appliances & Fuel Storage Systems

L: Conservation of fuel and power – Volume 1: Dwellings

L: Conservation of fuel and power – Volume 2: Buildings other than dwellings

Second-tier documents to the Building Regulations – England

Code for Sustainable Homes & Technical Guide December 2014

Building Energy Performance Assessment

Key approved documents to the Building Regulations (Wales)

B: Fire Safety – Volume 1: Dwellinghouses

B: Fire Safety – Volume 2: Buildings other than dwellinghouses

F: Ventilation – Volume 1: Dwellings

F: Ventilation – Volume 2: Buildings other than dwellings

G: Sanitation, hot water safety & water efficiency (2018 edition)

J: Combustion Appliances & Fuel Storage Systems

L: Conservation of fuel and power – Volume 1: Dwellings

L: Conservation of fuel and power – Volume 2: Buildings other than dwellings

Second tier documents to the Building Regulations – Wales

Code for Sustainable Homes & Technical Guide December 2014

Building Energy Performance Assessment

Key Approved Documents to the Building Standards (Scotland) Regulations (Domestic)

Scottish Technical Handbook (Domestic)

Section 2 – Domestic Fire

Section 3 – Domestic Environment

Section 6 – Domestic Energy

Building Energy Performance Assessment

Key Approved Documents to the Building Standards (Scotland) Regulations (Non-Domestic)

Scottish Technical Handbook (Non-Domestic)

Section 2 – Non-Domestic Fire

Section 3 – Non-Domestic Environment

Section 6 – Non-Domestic Energy

Second-tier documents to the Building Standards (Scotland) Regulations

Scottish Government Guide to the Condensing Boiler Installation Assessment

Building Energy Performance Assessment

Key Approved Documents to the Building Standards (Regulations) Northern Ireland

DFP Technical Booklet C: 2012 – Site preparation & resistance to moisture

DFP Technical Booklet E: 2012 – Fire Safety

DFP Technical Booklet F1: 2022 – Conservation of fuel & power in dwellings

DFP Technical Booklet F2: 2022 – Conservation of fuel & power in buildings other than dwellings

DFP Technical Booklet K: 2012 – Ventilation

DFP Technical Booklet L: 2012 – Combustion appliances & fuel storage systems

DFP Technical Booklet P: 2012 – Sanitary appliances, unvented hot water storage systems and reducing the risk of scalding

Building Energy Performance Assessment

Key Approved Documents to the Building Regulations Isle of Man (IOM)

B-Fire Safety – Fire safety (2022 Edition)

F-Ventilation (2022 Edition)

J-Combustion Appliances & Fuel Storage Systems (2022 Edition)

L1-Conservation of Fuel & Power in Dwellings (2022 Edition)

➤ L2-Conservation of Fuel & Power in Buildings other than Dwellings (2022 Edition)
Building Energy Performance Assessment

Key Approved Documents to the Building Bylaws (Guernsey) – Channel Islands

B-Fire Safety – Volume 1: Dwelling houses

B-Fire Safety – Volume 2: Buildings other than dwelling houses

F-Ventilation

J – Heat producing appliances & Fuel Storage Systems

L1 – Conservation of Fuel & Power in Dwellings

L2 – Conservation of Fuel & Power – Buildings other than Dwellings
Building Energy Performance Assessment

Key Approved Documents to the Building Bylaws (Jersey) – Channel Islands

Part 2 – Fire Safety

Part 3 – Combustion appliances and Fuel Storage Systems

Part 5 – Ventilation

Part 11 – Conservation of Fuel and Power

HSE Publications and other Approved Codes of Practice (Great Britain)

L21 – Management of Health & Safety at Work. *Withdrawn, see HSG65*

L24 – Workplace health, safety & welfare (ACoP & Guidance) 2nd Edition

L25 – Personal Protective Equipment at Work

L56 – Safety in the Installation and use of Gas Systems and Appliances – Approved Code of Practice

L80 – A guide to the Gas Safety (Management) Regulations 1996

L108 – Controlling noise at work – The Control of Noise at Work Regulations 2005 – Guidance on Regulations

L122 – Safety of pressure systems – Pressure Systems Safety Regulations 2000 – Approved Code of Practice (Second Edition)

L138 – Dangerous Substances and Explosive Atmospheres. Dangerous Substances and Explosive Atmospheres Regulations 2002. Approved Code of Practice and Guidance

L143 – Control of Asbestos Regulations 2012 (ACoP) – The management of asbestos in non-domestic premises, and Work with materials containing asbestos (Second Edition) Incorporating previous L127

L153 – Managing health and safety in construction – Construction (Design and Management)

Regulations 2015 Approved Code of Practice

HSG47 – Avoiding danger from underground services – Third edition 2014

HSG48 – Reducing error and influencing behaviour

HSG65 – Managing for Health and Safety Management – Third Edition – 2013

HSG85 – Electricity at Work – Safe working practices – Third Edition 2013

HSG97 – A step by step guide to Control of Substances Hazardous to Health (COSHH) assessment (*see also COSHH Essential Guidance publications*)

HSG137 – Health Risk Management – A practical guide for managers in small and medium-sized enterprises

HSG176 – The storage of flammable liquids in tanks

HSG210 – Asbestos Essentials – A task manual for building, maintenance & allied trades on non-licensed asbestos work (*Free task sheets*)

HSG213 – Introduction to Asbestos Essentials

HSG250 – Guidance on permit-to-work systems: A guide for the petroleum, chemical and allied industries

HSG253 – The safe isolation of plant and equipment (Second edition)

HSG261 – Health and safety in motor vehicle repair and associated industries

EH40 – Workplace Exposure Limits (2020)

INDG163 (rev4) – Risk assessment (A brief guide to controlling risks in the workplace)

INDG223 (rev5) – Managing asbestos in buildings (A brief guide)
INDG231 (rev1) – Electrical safety and you (A brief guide)

INDG258 (rev1) – Confined spaces (A brief guide to working safely)

INDG428 (08/09) – Inspecting and maintaining or replacing buried metallic pipework carrying LPG vapour

INDG223 (rev5) – Manage asbestos in buildings: A brief guide

INDG370 (rev1) – Controlling Fire and explosion risks in the workplace – A brief guide to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)

INDG453 (rev1) – Reporting accidents and incidents at work
A brief guide to the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR)

HSE aO – Advice on non-licensed work with Asbestos. Introduction to 'Asbestos essentials' task sheets

Control of Substances Hazardous to Health (COSHH) Essentials guidance publications

Guidelines on ventilation, thermal comfort and indoor air quality in schools

LAQM.TG(22) Local Air Quality Management – Technical Guidance

CAIS10 (Revision 3) – Ventilation of kitchens in catering establishments

CAIS23 (Revision 3) – Gas safety in catering and hospitality

Note 3: Further asbestos-related guidance at: www.hse.gov.uk/asbestos/information.htm

Note 4: Further Health and Safety Guidance (HSG) publications at: www.hse.gov.uk/pubns/books/index-hsg-ref.htm

HSENI Publications and other Approved Codes of Practice (Northern Ireland)

A guide to the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (Northern Ireland) 1997

L56 Safety in the installation and use of gas systems and appliances – GB ACOP approved for use in NI

Memorandum of guidance on the Electricity at Work Regulations (Northern Ireland) 1991

Note 5: Further information on Northern Ireland Approved Codes of Practice and guidance notes at: www.hseni.gov.uk/publications

HSE Publications and other Approved Codes of Practice (Guernsey)

Safety in the Installation & Use of Gas Systems & Appliances

The Health and Safety (Gas) (Guernsey) Ordinance 2006

The Organisation and Management of Health & Safety in Construction (Guernsey)

Reporting an Injury, Disease or Dangerous Occurrence (Guernsey)

Note 6: Further information on Approved Codes of Practice and guidance notes for gas safety and other important issues at: www.gov.gg/hseguidance

10: GAS INDUSTRY STANDARDS

British and European Standards

BS 4163: 2021 + A1:2022

Health and safety for design and technology in educational and similar establishments. Code of practice

BS 3632: 2023 Residential park homes – Specification

BS 5440-1: 2023 Chimneys, flue pipes and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases). Design, installation, commissioning and maintenance of chimneys. Specification

BS 5440-2: 2023 Chimneys, flue pipes and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases). Installation and maintenance of ventilation provision for gas appliances. Specification

BS 5546: 2010 Specification for installation and maintenance of gas-fired water-heating appliances of rated input not exceeding 70kW net

PD 54823: 2016 Guidance for the design, commissioning and maintenance of LPG systems in small craft

BS 5864: 2019 Installation and maintenance of gas-fired ducted air heaters of rated input not exceeding 70kW net (2nd and 3rd family gases). Specification

BS 5871-1: 2005 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Gas fires, convector heaters, fire/back boilers and heating stoves (2nd and 3rd family gases)

BS 5871-2: 2005 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Inset live fuel effect gas fires of heat input not exceeding 15kW and fire/back boilers (2nd and 3rd family gases)

BS 5871-3: 2005 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Decorative fuel effect gas appliances of heat input not exceeding 20kW (2nd and 3rd family gases)

BS 5871-4: 2007 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Independent gas-fired flueless fires, convector heaters and heating stoves of nominal heat input not exceeding 6kW (2nd and 3rd family gases)

BS 6172: 2010 + A1:2017 Specification for installation, servicing and maintenance of domestic gas cooking appliances (2nd and 3rd family gases). Specification

BS 4163: 2021 + A1:2022

Health and safety for design and technology in educational and similar establishments. Code of practice

BS 6173: 2020 Installation and maintenance of gas fired catering appliances for use in all types of catering establishments (2nd and 3rd family gases). Specification

BS 6230: 2011 Specification for installation of gas-fired forced convection air heaters for commercial and industrial space heating (2nd and 3rd family gases)

BS 6400-1: 2016 Specification for installation, exchange, relocation, maintenance and removal of gas meters with a maximum capacity not exceeding 6m³/h. Low pressure (2nd family gases). *Under review*

BS 6400-2: 2018 Specification for installation, exchange, relocation, maintenance and removal of gas meters with a maximum capacity not exceeding 6m³/h. Medium pressure (2nd family gases). *Under review*

BS 6400-3: 2007 Specification for installation, exchange, relocation and removal of gas meters with a maximum capacity not exceeding 6m³/h. Low and medium pressure (3rd family gases)

BS 6644: 2011 Specification for the installation and maintenance of gas-fired hot water boilers of rated inputs between 70kW (net) and 1.8MW (net) (2nd and 3rd family gases)

BS 6798: 2014 Specification for selection, installation, inspection, commissioning, servicing and maintenance of gas-fired boilers of rated input not exceeding 70kW net. *Under review*

BS 6891: 2015 + A1:2019 Specification for the installation and maintenance of low pressure gas installation pipework of up to 35mm (R1¼) on premises

BS 6896: 2011 Specification for installation and maintenance of gas-fired overhead radiant heaters for industrial and commercial heating (2nd and 3rd family gases)

BS 7624: 2004 Installation and maintenance of domestic direct gas-fired tumble dryers of up to 6kW heat input (2nd and 3rd family gases)

BS 7671: 2018 + A3:2024 Requirements for Electrical Installations

BS 7967: 2015 Guide for the use of electronic portable combustion gas analysers for the measurement of carbon monoxide in dwellings and the combustion performance of domestic gas-fired appliances

BS 7967-5: 2010 Carbon monoxide in dwellings and other premises and the combustion performance of gas-fired appliances. Guide for using electronic portable combustion gas analysers in non-domestic premises for the measurement of carbon monoxide and carbon dioxide levels and the determination of combustion performance

BS 8313: 1997 Code of practice for accommodation of building services in ducts

BS 4163: 2021 + A1:2022 Health and safety for design and technology in educational and similar establishments. Code of practice

BS 8446: 2020 Installation and maintenance of open-flued, non-domestic gas-fired laundry appliances. Specification

BS 8660-1: 2011 Gas-fired micro-cogeneration appliances of rated thermal input not exceeding 70kW net. Specification for selection, installation, inspection, commissioning, servicing and maintenance of Stirling engine micro-cogeneration appliances

BS EN 721: 2019 Leisure accommodation vehicles. Safety ventilation requirements

BS EN 751-1:1997 Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water. Anaerobic jointing compounds

BS EN 751-2:1997 Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water. Non-hardening jointing compounds

BS EN 751-3:2022+A1:2023 Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water. Unsintered PTFE tapes and PTFE strings

BS EN 1775: 2007 Gas supply. Gas pipework for buildings. Maximum operating pressure less than or equal to 5 bar. Functional recommendations

BS EN 12327: 2012 Gas infrastructure. Pressure testing, commissioning and decommissioning procedures. Functional requirements

BS EN 50292: 2023 Electrical apparatus for the detection of carbon monoxide in domestic premises, caravans and boats. Guide on the selection, installation, use and maintenance

BS EN 15001-1: 2023 Gas Infrastructure. Gas installation pipework with an operating pressure greater than 0.5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations. Detailed functional requirements for design, materials, construction, inspection and testing

BS EN 15001-2: 2023 Gas supply systems. Gas installation pipework with an operating pressure greater than 0.5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations. Detailed functional requirements for commissioning, operation and maintenance

BS EN ISO 10239: 2025 Small craft. Liquefied petroleum gas (LPG) systems

BS EN 13410: 2001 Gas-fired overhead radiant heaters. Ventilation requirements for non-domestic premises

BS EN 1749: 2020 Classification of gas appliances according to the method of supplying combustion air and of evacuation of the combustion products (types)

BS EN 1949: 2021 Specification for the installation of LPG systems for habitation purposes in leisure

accommodation vehicles and accommodation purposes in other vehicles

BS 4163: 2021 + A1:2022 Health and safety for design and technology in educational and similar establishments. Code of practice

Institution of Gas Engineers and Managers Documents (IGEM)

IGE/UP/1 Edition 2 Strength testing/tightness testing/direct purging of industrial and commercial gas installations. *Under review*

IGE/UP/1A Edition 2 Strength/tightness testing/purging of small, low pressure industrial & commercial installations. *Under review*

IGEM/UP/1B Edition 4 Tightness testing and direct purging of small Liquefied Petroleum Gas/Air, NG and LPG installations

IGEM/UP/1C Strength testing, tightness testing and direct purging of Natural Gas and LPG meter installations

IGEM/UP/2 Edition 4 Installation pipework on industrial and commercial premises

IGEM/UP/3 Edition 3 Gas fuelled spark ignition and dual fuel engines. *Under review*

IGEM/UP/4 Edition 4 Commissioning of gas fired plant on industrial and commercial premises

IGEM/UP/6 Edition 3 Application of compressors to natural gas fuel systems

IGE/UP/7 Edition 2 with amendments October 2008 Gas installations in timber framed and light steel framed buildings.

Note 7: IGE/UP/7 - Edition 2 with Amendments is available free at: www.igem.org.uk/resource/ige-up-7-edition-2-a-2008-gas-installations-in-timber-framed-and-light-steel-framed-buildings.html

IGE/UP/9 Edition 3 Application of Gas systems to Gas turbines and supplementary and auxiliary fired burners

IGEM/UP/10 Edition 4 with amendments March 2016 & February 2017 Installation of flued gas appliances in industrial and commercial premises. *Under review*

IGEM/UP/11 Edition 3 Gas installations for educational establishments

IGEM/UP/12 Edition 3 Application of burners and controls to gas fired process plant

IGEM/UP/16 Edition 2 with Amendments November 2023 Design for natural gas installations on industrial and commercial premises with respect to DSEAR

IGEM/UP/17 Edition 2 Shared chimney and flue systems for domestic gas appliances

IGEM/UP/18 Gas installations for vehicle repair and body shops

IGEM/UP/19 Edition 2 Design & application of interlock devices/ associated systems in gas appliance installations in catering

IGEM/UP/19 Edition 2 Supplement 1 Guidance for gas engineers to the application of relevant sections of IGE/UP/19 in catering establishments

Note 8: IGE/UP/19 Edition 2 Supplement 1 is available free at: <https://tinyurl.com/5aptj6ce>

IGEM/GL/8 Edition 4 Reporting and investigation of gas-related incidents. *Under review*

IGE/GL/9 Guidance for large gas consumers in dealing with natural gas supply emergencies

Note 9: IGE/GL/9 is available free at: <https://tinyurl.com/4kx5akk2>

IGE/TD/4 Edition 5 Polyethylene (PE) and steel gas services and service pipework

IGEM/G/1 Edition 3 Defining the boundaries between the network, primary meter installation and installation pipework

IGEM/G/4 Edition 2 Definitions for the gas industry. *Under review*

IGEM/G/5 Edition 3 with amendments April 2023 and April 2026 Gas in multi-occupancy buildings

IGEM/G/6 Edition 2 Gas supplies to mobile dwellings

IGEM/G/7 Risk assessment techniques

IGEM/G/10 Non-return valves

IGEM/G/11 Edition 2 with amendments July 2022, June 2024 and July 2025 Gas industry unsafe situations procedure

Note 10: IGE/G/11 is available free at: <https://tinyurl.com/yvv4ckj4>

IGEM/G/11 Supplement 1 Responding to domestic CO alarm activations/reports of fumes after attendance by the emergency service provider or the Liquefied Petroleum Gas supplier

Note 11: IGE/G/11 is available free at: www.igem.org.uk/resource/igem-g-11-supplement-1-responding-to-domestic-co-alarm-activations-reports-of-fumes.html

IGEM/G/13 with Amendments August 2023 Domestic supply capacity and operating pressure at the outlet of the meter

Note 12: IGE/G/13 is available free at: www.igem.org.uk/resource/igem-g-13-domestic-supply-capacity-and-operating-pressure-at-the-outlet-of-the-meter.html

IGE/GM/4 Edition 3 Flow metering practices. Inlet pressure exceeding 38 bar and not exceeding 100 bar

➤ **IGEM/GM/5 Edition 4** Electronic gas meter volume conversion systems. *Under review*

IGEM/GM/6 Edition 3
Non-domestic meter installations. Standard designs

IGEM/GM/7A Edition 2
Electrical connections for gas metering equipment

IGEM/GM/7B Edition 2
Hazardous area classification for gas metering equipment

IGEM/GM/8 – Part 1 Edition 2
Design

IGEM/GM/8 – Part 2 Edition 2
Location, housings and compounds

IGEM/GM/8 – Part 3 Edition 2
Fabrication, installation, testing and commissioning

IGEM/GM/8 – Part 4 Edition 2
Operation and maintenance

IGEM/GM/8 – Part 5 Edition 2
Notices and labels

IGEM/IG/1 Edition 2 Standards of training in Gas Work

Note 13: *IGEM/IG/1 is available free at: www.igem.org.uk/resource/igem-ig-1-ed-2-standards-of-training-in-gas-work.html*

IGEM/IG/1 Supplement 1
Non-domestic training specification

Note 14: *IGEM/IG/1 Supplement 1 is available free at: www.igem.org.uk/resource/igem-ig-1-supplement-1-non-domestic-training-specification.html*

IGEM/SR/25 Edition 2 Hazardous area classification of natural gas installations. *Under review*

IGEM/SR/29 Edition 2 Dealing with gas escapes

IGEM/H/1 Edition 2 Reference Standard for low pressure hydrogen utilisation

Note 15: *IGEM/H/1 is available free at: www.igem.org.uk/resource/igem-h-1-with-amendments-june-2022-reference-standard-for-low-pressure-hydrogen-utilisation.html*

Liquid Gas UK Codes of Practice (CoP)

UK LPG – LPG Technical Fundamentals

CoP 1 Part 1 Bulk LPG Storage at Fixed Installations – Design, Installation and Operation of Vessels Located Above Ground (October 2017)

CoP 1 Part 2 Bulk LPG Storage at Fixed Installations – Vapour Off-take Small Bulk Propane Installations (March 2021)

CoP 1 Part 3 Bulk LPG Storage at Fixed installations – Examination and Inspection (April 2020)

CoP 1 Part 4 Bulk LPG Storage at Fixed Installations – Buried/Mounded LPG Storage Vessels (January 2021)

CoP 7 Storage of Full and Empty LPG Cylinders and Cartridges (2021)

CoP 17 LPG vessels: Preparing for and Removing from Service (2025)

CoP 22 Design Installation and Testing of LPG Piping Systems (2025)

CoP 24 Part 3 Use of LPG Cylinders – Use of LPG for Commercial Catering Events, Street Food and Mobile Catering (September 2017)

CoP 25 LPG Central storage and Distribution Systems for Multiple Consumers (June 2018)

CoP 32 LPG systems in Leisure Accommodation Vehicles and Road Vehicles with Habitation – Post Delivery Inspection, Commissioning and Maintenance (December 2020)

CoP 33 Use of LPG Cylinders (July 2023) (Replaces COP 24-part 1/5/6)

GN 2 A Guide for Cabinet Heaters Servicing (March 2002)

11: OTHER INFORMATIVE DOCUMENTS AND USEFUL REFERENCES

Liquid Gas UK Consumer Guidance Sheets (CGS)

CGS 01 Mobile Bottled Gas Heaters and Condensation

CGS 03 The Use of LPG Cylinders Indoors

CGS 04 LPG Patio Heaters – Safe Use

CGS 05 LPG Hose and Tubing for use with Vapour Offtake Cylinders

CGS 20 Camping Safely

CGS 22 Owning your own LPG Storage Vessel

CGS 25 LPG Installation Record and Documentation

CGS 28 Safe Use of Propane and Butane Cylinders and Cartridges

CGS 37 Guidance for Private Ownership and Filling of 'Freestanding' Liquefied Petroleum Gas (LPG) Cylinders

CGS 39 Regulators – Safe Use

Note 16: *Liquid Gas UK Consumer Guidance Sheets (CGS) are available at: www.liquidgasuk.org/domestic/consumer-guidance-sheets*

Other Industry Procedures/Documents

DW/172 Specification for kitchen ventilation systems 2nd Edition (incorporates addendum April 2020)

IGEM/G/11 Edition 2 with amendments July 2022 and June 2024 The Gas industry unsafe situations procedure (GIUSP)

All Technical Bulletins For further information see TB 1000. These can be viewed by logging into your online account at: www.GasSafeRegister.co.uk/sign-in

All Gas Safe Register Safety Alerts These can be viewed by logging into your online account at: www.GasSafeRegister.co.uk/sign-in

All Gas Safe Register Industry Standard Updates These can be viewed by logging into your online account at: www.GasSafeRegister.co.uk/sign-in

Note 17: *Gas Safe Registered businesses can find up-to-date access manufacturer's instructions/information for a wide range of heating appliances notably boilers and warm air heating appliances on HHIC's website.*

12: ACCESS TO INDUSTRY STANDARDS FROM GAS SAFE REGISTER

The Industry Standard numbers below are those included in the list of current Industry Standards available on a subscription basis to the majority of Gas Safe registered business. To subscribe, log into your online account at www.GasSafeRegister.co.uk/sign-in and choose Standards Subscriptions. Choose and pay for a one or three-year subscription for access to the normative documents.

BS 5440-1: 2023 Chimneys, flue pipes and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases). Design, installation, commissioning and maintenance of chimneys. Specification

BS 5440-2: 2023 Chimneys, flue pipes and ventilation for gas appliances of rated input not exceeding 70kW net (1st, 2nd and 3rd family gases). Installation and maintenance of ventilation provision for gas appliances. Specification

BS 5546: 2010 Specification for installation and maintenance of gas-fired water-heating appliances of rated input not exceeding 70kW net

PD 54823: 2016 Guidance for the design, commissioning and maintenance of LPG systems in small craft

BS 5864: 2019 Installation and maintenance of gas-fired ducted air heaters of rated input not exceeding 70kW net (2nd and 3rd family gases). Specification

BS 5871-1: 2005 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Gas fires, convector heaters, fire/back boilers and heating stoves (2nd and 3rd family gases)

BS 5871-2: 2005 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Inset live fuel effect gas fires of heat input not exceeding 15kW and fire/back boilers (2nd and 3rd family gases)

BS 5871-3: 2005 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Decorative fuel effect gas appliances of heat input not exceeding 20kW (2nd and 3rd family gases)

BS 5871-4: 2007 Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances. Independent gas-fired flueless fires, convector heaters and heating stoves of nominal heat input not exceeding 6kW (2nd and 3rd family gases)

BS 6172: 2010 + A1 2017 Specification for installation, servicing and maintenance of domestic gas cooking appliances (2nd and 3rd family gases). Specification

BS 6173: 2020 Installation and maintenance of gas fired catering appliances for use in all types of catering establishments (2nd and 3rd family gases). Specification

BS 6230: 2011 Specification for installation of gas-fired forced convection air heaters for commercial and industrial space heating (2nd and 3rd family gases)

BS 6400-1: 2016 Specification for installation, exchange, relocation, maintenance and removal of gas meters with a maximum capacity not exceeding 6m³/h. Low pressure (2nd family gases)

BS 6400-2: 2018 Specification for installation, exchange, relocation, maintenance and removal of gas meters with a maximum capacity not exceeding 6m³/h. Medium pressure (2nd family gases)

BS 6400-3: 2007 Specification for installation, exchange, relocation and removal of gas meters with a maximum capacity not exceeding 6m³/h. Low and medium pressure (3rd family gases)

BS 6644: 2011 Specification for the installation and maintenance of gas-fired hot water boilers of rated inputs between 70kW (net) and 1.8MW (net) (2nd and 3rd family gases)

BS 6798: 2014 Specification for selection, installation, inspection, commissioning, servicing and maintenance of gas-fired boilers of rated input not exceeding 70kW net

BS 6891: 2015 + A1 2019 Specification for the installation and maintenance of low pressure gas installation pipework of up to 35mm (R1¼) on premises

BS 6896: 2011 Specification for installation and maintenance of gas-fired overhead radiant heaters for industrial and commercial heating (2nd and 3rd family gases)

BS 7624: 2004 Installation and maintenance of domestic direct gas-fired tumble dryers of up to 6kW heat input (2nd and 3rd family gases)

BS 7967: 2015 Guide for the use of electronic portable combustion gas analysers for the measurement of carbon monoxide in dwellings and the combustion performance of domestic gas-fired appliances

BS 7967-5: 2010 Carbon monoxide in dwellings and other premises and the combustion performance of gas-fired appliances. Guide for using electronic portable combustion gas analysers in non-domestic premises for the measurement of carbon monoxide and carbon dioxide levels and the determination of combustion performance

BS 8446: 2020 Installation and maintenance of open-flued, non-domestic gas-fired laundry appliances. Specification

BS EN 721: 2019 Leisure accommodation vehicles. Safety ventilation requirements

BS EN 12327: 2012 Gas infrastructure. Pressure testing, commissioning and decommissioning procedures. Functional requirements

BS EN 15001-1: 2023 Gas Infrastructure. Gas installation pipework with an operating pressure greater than 0.5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations. Detailed functional requirements for design, materials, construction, inspection and testing

BS EN 15001-2: 2023 Gas supply systems. Gas installation pipework with an operating pressure greater than 0.5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations. Detailed functional requirements for commissioning, operation and maintenance

BS EN 1949: 2021 Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and accommodation purposes in other vehicles

BS EN ISO 10239: 2025 Small craft. Liquefied petroleum gas (LPG) systems

BS EN 13410: 2001 Gas-fired overhead radiant heaters. Ventilation requirements for non-domestic premises

Institution of Gas Engineers and Managers Documents (IGEM)

IGEM/UP/1 Strength testing/tightness testing/direct purging of industrial and commercial gas installations

IGEM/UP/1A Strength/tightness testing/purging of small, low pressure industrial & commercial installations

IGEM/UP/1B Tightness testing and direct purging of small Liquefied Petroleum Gas/Air, NG and LPG installations

IGEM/UP/1C Strength testing, tightness testing and direct purging of Natural Gas and LPG meter installations

IGEM/UP/2 Installation pipework on industrial and commercial premises

IGEM/UP/3 Gas fuelled spark ignition and dual fuel engines

IGEM/UP/4 Commissioning of gas fired plant on industrial and commercial premises

IGEM/UP/6 Application of compressors to natural gas fuel systems

IGEM/UP/7 Gas installations in timber framed and light steel framed buildings. *Available free*

IGEM/UP/9 Application of Gas systems to Gas turbines and supplementary and auxiliary fired burners

IGEM/UP/10 Installation of flued gas appliances in industrial and commercial premises

IGEM/UP/11 Gas installations for educational establishments

IGEM/UP/12 Application of burners and controls to gas fired process plant

IGEM/UP/16 Design for natural gas installations on industrial and commercial premises with respect to DSEAR

IGEM/UP/17 Shared chimney and flue systems for domestic gas appliances

IGEM/UP/18 Gas installations for vehicle repair and body shops

IGEM/UP/19 Design & application of interlock devices/associated systems in gas appliance installations in catering

IGEM/GL/8 Reporting and investigation of gas-related incidents

IGEM/GL/9 Guidance for large gas consumers in dealing with natural gas supply emergencies. *Available free*

IGEM/TD/4 Polyethylene (PE) and steel gas services and service pipework

IGEM/G/1 Defining the boundaries between the network, primary meter installation and installation pipework

IGEM/G/4 Definitions for the gas industry

IGEM/G/5 Gas in multi-occupancy buildings

IGEM/G/6 Gas supplies to mobile dwellings

IGEM/G/11 Gas industry unsafe situations procedure. *Available free*

IGEM/G/11 Supplement 1 Responding to domestic CO alarm activations/reports of fumes after attendance by the emergency service provider or the Liquefied Petroleum Gas supplier. *Available free*

IGEM/G/13 Domestic supply capacity and operating pressure at the outlet of the meter. *Available free*

IGEM/GM/4 Flow metering practices. Inlet pressure exceeding 38 bar and not exceeding 100 bar

IGEM/GM/5 Electronic gas meter volume conversion systems

IGEM/GM/6 Non-domestic meter installations. Standard designs

IGEM/GM/7A Electrical connections for gas metering equipment

IGEM/GM/7B Hazardous area classification for gas metering equipment

IGEM/GM/8 – Pt 1 Non-domestic meter installations. Design. Flow rate exceeding 6m³h⁻¹ & inlet pressure up to and not exceeding 38 bar

IGEM/GM/8 – Pt 2 Non-domestic meter installations. Location, housings and compounds for flow rate exceeding 6m³h⁻¹ and inlet pressure up to and not exceeding 38 bar

IGEM/GM/8 – Pt 3 Non-domestic meter installations. Fabrication, installation, testing and commissioning for flow rate exceeding 6m³h⁻¹ and inlet pressure up to and not exceeding 38 bar

IGEM/GM/8 – Pt 4 Non-domestic meter installations. Operation and maintenance for flow rate exceeding 6m³h⁻¹ and inlet pressure up to and not exceeding 38 bar

IGEM/GM/8 – Pt 5 Non-domestic meter installations. Notices and labels for flow rate exceeding 6m³h⁻¹ and inlet pressure up to and not exceeding 38 bar

Liquid Gas UK Codes of Practice (CoP)

CoP 1 Part 1 Bulk LPG Storage at Fixed Installations – Design, Installation and Operation of Vessels Located Above Ground (October 2017)

CoP 1 Part 2 Bulk LPG Storage at Fixed Installations – Vapour Off-take Small Bulk Propane Installations (March 2021)

CoP 1 Part 3 Bulk LPG Storage at Fixed installations - Examination and Inspection (April 2020)

CoP 1 Part 4 Bulk LPG Storage at Fixed Installations – Buried/ Mounded LPG Storage Vessels (January 2021)

CoP 7 Storage of Full and Empty LPG Cylinders and Cartridges (2021)

CoP 17 LPG vessels: Preparing for and Removing from Service (2025)

CoP 22 Design Installation and Testing of LPG Piping Systems (2025)

CoP 24 Part 3 Use of LPG Cylinders – Use of LPG for Commercial Catering Events, Street Food and Mobile Catering (September 2017)

CoP 25 LPG Central storage and Distribution Systems for Multiple Consumers (June 2018)

CoP 32 LPG systems in Leisure Accommodation Vehicles and Road Vehicles with Habitation – Post Delivery Inspection, Commissioning and Maintenance (December 2020)

CoP 33 Use of LPG Cylinders (July 2023) (Replaces COP 24-part 1/5/6)

GN 2 A Guide for Cabinet Heaters Servicing (March 2002)

Devon homes switch to 100% bioLPG

Not all UK homes will be suitable for heat pumps. One housing estate has found a way to lower carbon emissions without having to make any installation upgrades.

A housing estate in Exeter has switched to a 100% renewable liquid gas blend for home heating. Residents at Seaward Park, a 19-home estate, switched to bioLPG in late 2025. They are heating their homes exactly as before, but now with up to 80% lower carbon emissions than with conventional LPG.

The south-west of England has the highest proportion of off-grid households, at around 24%, many of which are in rural areas where properties rely on oil or LPG tanks for heating.

As the government



For rural communities where alternatives like heat pumps aren't always practical, bioLPG offers a way to significantly cut carbon emissions without the disruption and expense of replacing entire heating systems.

considers the future of home heating, heat pumps are widely promoted as the primary option. However, impact assessments suggest around one in five UK homes may not be technically suitable for a heat pump, rising to one-third once affordability is considered.

Ivan Trevor of Flogas Britain, which supplies the estate, says: "This shows that off-grid homes don't have to rip out their heating systems to reduce their emissions."

The bioLPG is supplied using a certified 'mass balance' system, meaning that for every litre a customer buys, the same amount of renewable gas is added into the wider UK supply chain.

Renewable and conventional LPG are stored and transported through the same tanks and delivery network, so the exact mix in any one delivery may vary, but the total amount of renewable gas purchased is genuinely produced and supplied into the UK market.

Because bioLPG is a drop-in fuel that works in exactly the same way as conventional LPG, homeowners can continue using their existing boiler, tank and pipework as normal while lowering the carbon emissions associated with their heating.

Mark Stubbs, a resident at Seaward Park, said: "On our estate, we wanted a heating solution that made sense for our homes.

"This 100% bioLPG tariff

With thousands of south-west homes off the mains gas grid, solutions like this need to be part of the conversation about the future of rural heating.



gives us the reliability and performance we expect, but with a lower carbon impact than standard LPG.

"It means we can heat the house properly and stay comfortable while feeling confident we've made a more responsible choice for the long term. For us, it's about doing things properly, without making life complicated."

Ivan adds: "BioLPG is a practical solution that works right now, with the boilers people already have." ■

25 million litres of renewable liquid gas* are already being supplied nationwide – a figure that is set to rise by 40% in the coming year.

*Liquid Gas UK Industry Census 2025

skillsandtraining

Smart Energy Training acquires Brookhouse

Smart Energy Training has acquired Brookhouse in Yorkshire, strengthening its specialist offer across the north of England.

Brookhouse, based in Cleckheaton, is recognised for its expertise in gas Managed Learning Programmes (MLPs) and will now operate as part of the Smart Energy Training division.

This expansion extends the reach of Smart Energy Training, part of Realise Training Group, beyond its Midlands locations.

Founded in 2016, Brookhouse delivers MLPs for those entering the gas engineering profession, including ex-military personnel, alongside ACS courses.

Brookhouse's courses will continue as scheduled, providing continuity for learners. James McConnell has stepped down as managing director.

Paul Drew, interim director at Smart Energy Training, said: "Brookhouse has a strong reputation for developing new entrants into the gas industry, and that expertise will be vital as we work to support employers and learners across the north of England."

Free boiler training with Vokèra

Vokèra has created a series of free training courses for installers working with its heating solutions. The training can take place in person or online as webinars, and covers installation, commissioning and fault-finding.

As well as staying up to date with advancing technologies and practices and building their confidence on installs, heating engineers can also ask questions to Vokèra's technical team.

They can get hands-on with the products while receiving an overview of Vokèra boiler platforms, a guided look inside key components, flue gas analysis procedures, operation, wiring, and Benchmark completion.



In-person training takes place at the company's training centre in Huntingdon, Cambridgeshire, and at the Innovo Training Centre in Glasgow. Course dates are available to book until the end of the year and take one to two days to complete, depending on the topic.

Those who can't attend the

training centres or commit to full days of training can join live courses via early evening webinars. These cover the same topics but are condensed to 90 minutes, including a Q&A with the technical training team.

www.vokera.co.uk/trade-professionals/technical-training/

Students power new skills facility at Brighton MET

Brighton MET College has partnered with Vaillant and Optimus Heating to open its Vaillant Training Facility.

The facility will help equip the industry's future workforce with the practical skills needed for a career in plumbing, heating

and low-carbon technologies.

It's designed to support both those heading into the industry as well as employers, by equipping young people with the essential skills, supporting adults looking to upskill or change careers, and strengthen

workforce development.

Brighton MET students played a key role in the development of the project. Learners from plumbing, carpentry, multi-trades and construction courses helped to build the space, creating a learning environment designed and built by students for future students.

Henrik Hansen, managing director of Vaillant UK and Ireland, said: "It is fantastic to see Brighton MET, Optimus Heating and its students come together to create a facility that will help inspire future careers in the industry and support the long-term growth of low-carbon heating across the UK."



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productupdate

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Greenstar 1000 now available with LPG kit

Worcester Bosch's Greenstar 1000 boiler is now available with an LPG conversion kit. The kit means off-grid and holiday park homes can use a Worcester Bosch boiler by converting the natural gas Greenstar 1000 into an LPG solution.

The boiler's small footprint is designed to fit into tight cupboard spaces, which can often be found in static caravans. The result is a quick, simple installation that provides consumers with immediate access to efficient energy without the need for extensive renovations or long delays.

Product manager Oliver Gwilliam said: "We're helping installers diversify their businesses and unlock new revenue in the off-grid and holiday park markets. It's the perfect time to offer a budget-friendly, compact solution that fits the unique constraints of a caravan."

Gas 210 Ace now under Baxi brand

Remeha's Gas 210 Ace has been rebranded the Baxi Gas 210 Ace. The relaunch marks the first of Remeha's floor-standing boilers to transition to the Baxi brand, following the introduction of the wall-hung Baxi Quinta Ace and Baxi Quinta Ace S models.

The high-efficiency, hybrid-ready Gas 210 Ace has an optional secondary return option that makes it particularly suitable for use

with air source heat pumps that use low-grade heat. When combined with Baxi's ASHP range and CHVAC Manager hybrid controller, it can provide an immediate and practical solution for building owners to meet heat demand more sustainably.

The compact, lightweight boiler can be installed back to back, making it suitable for refurbishment and new-build projects where space, access

and long-term performance are all critical. It has flexible control options, including options for direct weather compensation, helping systems automatically adjust flow temperatures.

It's available in multiple outputs for commercial environments, including education, healthcare, hospitality and leisure and mixed-use developments.
www.baxi.co.uk/commercial

New-look column rads from Stelrad

Stelrad has added Italian styling to its Column radiators in both the vertical and horizontal ranges, with a new rounded column design. The streamlined model range will feature 54 horizontal radiators and four vertical options with heights between 300mm and 2000mm and lengths from 348mm to 1866mm.

They also come with a



15-year warranty.

Paint finishes are now 'automotive grade' for better corrosion resistance and heat output and performance consistency. All other core specifications remain

consistent, including colours – available in Traffic White and Anthracite Grey from stock – the steel thickness, certifications and stock availability.

www.stelradprofessional.com

Lifetime warranty on Logic Air heat pumps

Ideal's Logic Air heat pumps now come with a lifetime warranty when installed alongside an Ideal cylinder and Halo Air controls. The plan combines annual servicing, ongoing warranty and manufacturer support.

Homeowners can sign up within six months of installation through a monthly subscription of £22.50, or an annual payment of £270, for support throughout the life of

their heating system.

Installers who want Ideal Heating to provide ongoing servicing and support can recommend Lifetime Warranty for their customers. Those who prefer to retain the servicing relationship themselves can continue to do so through Ideal Heating's extended warranty options.

Chief executive officer Adam Foy said: "We didn't want to launch just another

warranty. We wanted to redefine what long-term ownership of a heat pump should look like.

"Lifetime Warranty gives homeowners the reassurance that their heat pump can be looked after by the people who designed and built it, while giving installers another powerful way to support their customers."

<https://idealheating.com/lifetime-warranty>

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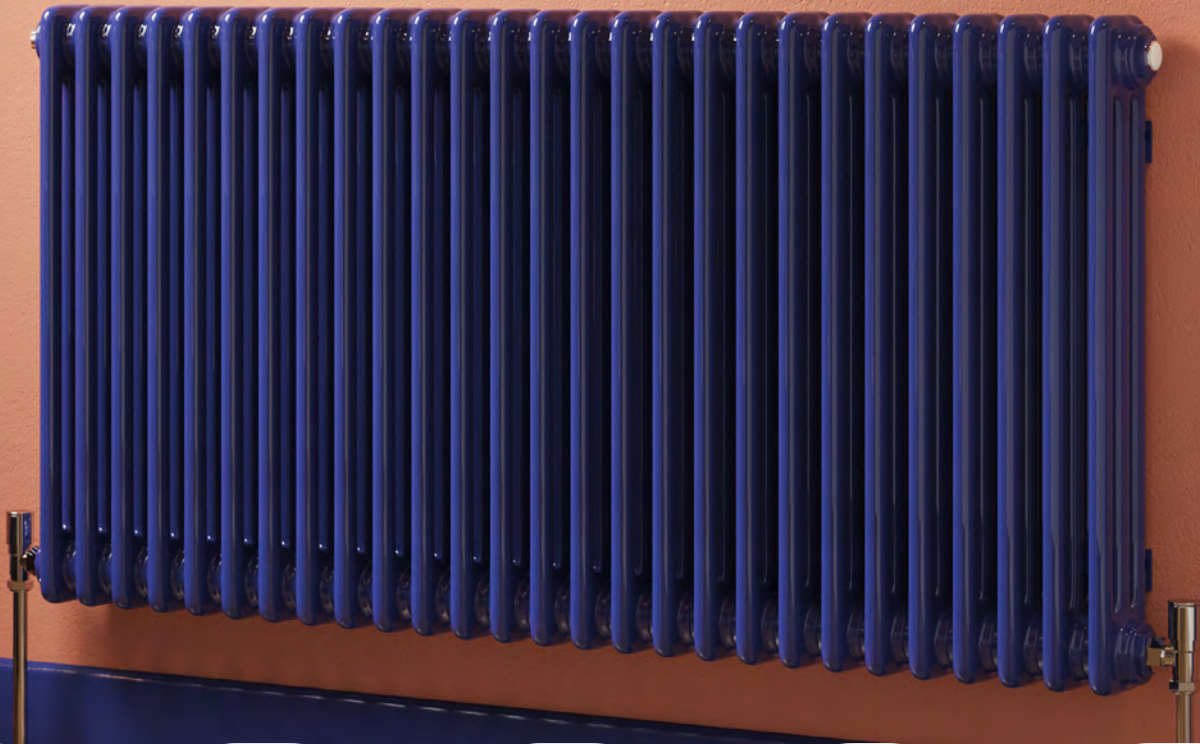
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