

CEA One Day Awareness Seminar July, September & November 2017

**Covering: Boiler Water Treatment (BG04),
Industrial Gas Accreditation Scheme (I-GAS)
and Medium Combustion Plant Directive (MCPD)**

 **Thursday 20th July 2017**

Chesford Grange Hotel, Kenilworth, Warwick CV8 2LD
Tel: 01926 859331

 **Thursday 28th September 2017**

Crewe Hall, Weston Road, Crewe, Cheshire CW1 6UZ
Tel: 01270 253333

 **Tuesday 14th November 2017**

Hampshire Court Hotel, Chineham, Basingstoke, RG24 8FY
Tel: 01256 319700



I-GAS
Industrial Gas Accreditation Scheme



- **Do you or any of your team work on industrial gas systems? Have you been formally trained and can you prove competence?**
- **Do you or your team organise or carry out any maintenance or installation work on industrial gas systems?**
- **Do you employ contractors to do this work?**
- **Do you check contractor's qualifications & competency?**



Who should attend?

All organisation using boilers for steam and/or hot water production such as:

- Bakeries • Breweries • Chemicals • Dairies • Distillers • Dyers • Food processing • Horticulture
- Hospitals • Paper mills • Pharmaceuticals • Textiles • Laundries • Facilities companies
- All companies running any boiler plant

Suppliers of services to the boiler user including:

- Boilers insurers • Consultants to the energy industry • Contract energy management • Developers
- Fuel suppliers • Industry development agencies • Mechanical service contractors • Plant designers
- Facilities services managers

Registration and fees

CEA Member	Non - CEA Member
£200 incl. VAT	£290 incl. VAT

For Further Information:

Email: info@cea.org.uk
Tel: 01740 625 538

Industrial Gas Accreditation (I-GAS), Boiler Water Treatment (BG04) and MCPD Update

The order on the day may vary depending on speaker availability

08:45 – 09:30	Registration – Tea & Coffee
09:30 – 09:35	Welcome David Kilpatrick – CEA Director
09:35 – 09:45	Introduction Adrian Rhodes – CEA Chairman
09:45 – 10:30	Pre-Boiler Water Treatment Andy Perkins – ENVIROGEN
10:30 – 11:00	Coffee Break & Exhibition
11:00 – 12:00	BG04 Boiler Water Treatment Mick Casey – Deep Water Blue
12:00 – 13:00	Lunch & Exhibition
13:00 – 14:00	I-GAS – Why Do You Need I-GAS? Nick Evans – Blue Flame
14:00 – 14:30	Industrial Gas Accreditation Scheme Paul Whitehead – Energy & Environmental Solutions
14:30 – 14:50	Coffee Break & Exhibition
14:50 – 16:10	MCPD Update SAACKE Combustion Services
16:10	Close





The I-GAS Scheme has been designed to take operatives who may be relatively new to the gas industry or already experienced gas operatives through four levels of Industrial Gas Qualifications.

In the UK, staff working on industrial gas installations and carrying out maintenance activities of any type have had no way of proving their competence on large scale gas equipment. It is a legal requirement in domestic households that the person working on your small gas appliances is Gas Safe registered and suitably trained and accredited to work on that type of appliance, if they are not they can be prosecuted by HSE.



The Industrial Gas Accreditation Scheme (I-GAS) qualification has therefore been devised by the CEA to fill this gap, in collaboration with training providers, Blue Flame & Kiwa Gastec, also manufacturers of combustion equipment and employers.

Candidates for I-GAS qualifications are expected already to be working as mechanical fitters or installers, maintenance technicians or in other associated industrial activities where they are operating on or working around gas fired systems and equipment; they may already have domestic gas qualifications and need to enhance these with an industrial gas qualification.

In order to prepare candidates for I-GAS accreditation a number of independent and competing organisations offer suitable training courses approved by the CEA. These courses are intended to supplement and confirm existing knowledge and prepare suitable candidates for the various levels of qualification afforded by I-GAS.

I-GAS Accreditation is not a legal requirement but *is* a test of a person's competence in relation to their current knowledge and experience at the time their assessment is completed. It is only one possible component that may help an organisation to demonstrate their corporate responsibility to provide suitable training for employees under the Health and Safety at Work Act. I-GAS is not a substitute for GasSafe qualifications which are needed for work on gas installations in a wide variety of domestic and commercial premises and other locations such as hospitals.

MCPD (Medium Combustion Plant Directive)

One of the single most important directives for many years in the combustion industry **will be transposed into UK law 19th December 2017**. If you own or operate any combustion plant with a thermal input of between **1MW and 50MW** you will be affected. This means anyone with a boiler generating around 1.3 ton/hr of steam or more, or using a CHP or diesel generator of around 500kVA or more, will need to know about this directive.



It is expected that all new combustion plants in the 1-50MW range will have to comply with the new rules from early 2018. Existing plants have more time to get ready as the rules for them will not apply until somewhat later, depending on the MW rating. Larger plants will have to measure NO_x, SO_x, dust and CO every year; smaller plants will have to measure every three years.

Infrequently used plants will not have to measure emissions unless they run for more than a minimum number of hours.

Boiler Water Treatment (BG04)

Boiler water treatment is a critical aspect of operations when it comes to safe and reliable operation of any type of industrial boiler plant. Whether that is Industrial Hot Water Boilers, Industrial Shell and Tube Steam Boilers or Large Scale Water Tube Boilers for power generation, good quality water treatment is paramount to ensure safe and reliable operation over the long term.

If you don't look after the water treatment properly it is likely to cost you a lot of money. A boiler can be destroyed in months if you don't look after the water treatment, it can cost significant amounts of money if you are over dosing chemicals or dosing them in the wrong place. If scale builds up on the surfaces within the boiler it only takes a coating of 1mm thick to reduce the boiler efficiency by 5%. This may not seem a lot - but with fuel bills on the rise again look at the fuel bill and consider what 5% of that bill is worth to you and your company.

Boiler blow down, a key aspect of operating your boiler, will also be affected if the water treatment regime is wrong, you will end up wasting water that you have treated and heated and put down the drain to maintain the correct TDS level, again costing you a lot of money in wasted fuel, water and chemicals.

