

Boiler Training

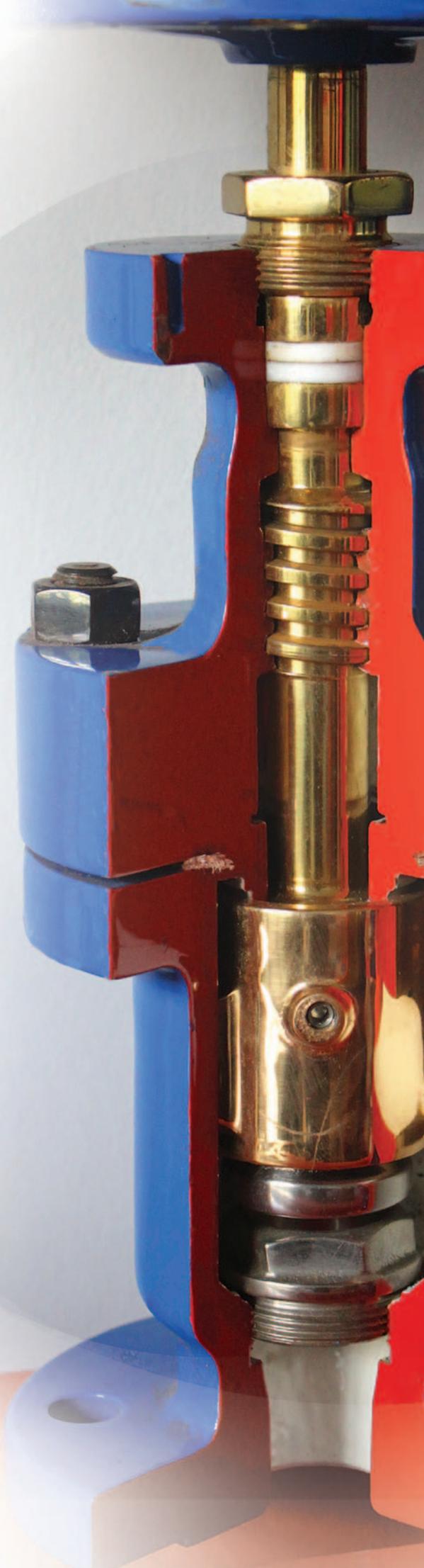
Correct operation and regular routine maintenance ensures that your boiler plant remains at peak efficiency and with minimal downtime, keeping your running costs as low as possible, whilst also ensuring you meet your health and safety obligations. This can be achieved by developing the skills and awareness of your boilerhouse and plant operation and maintenance staff through Cochran training courses.

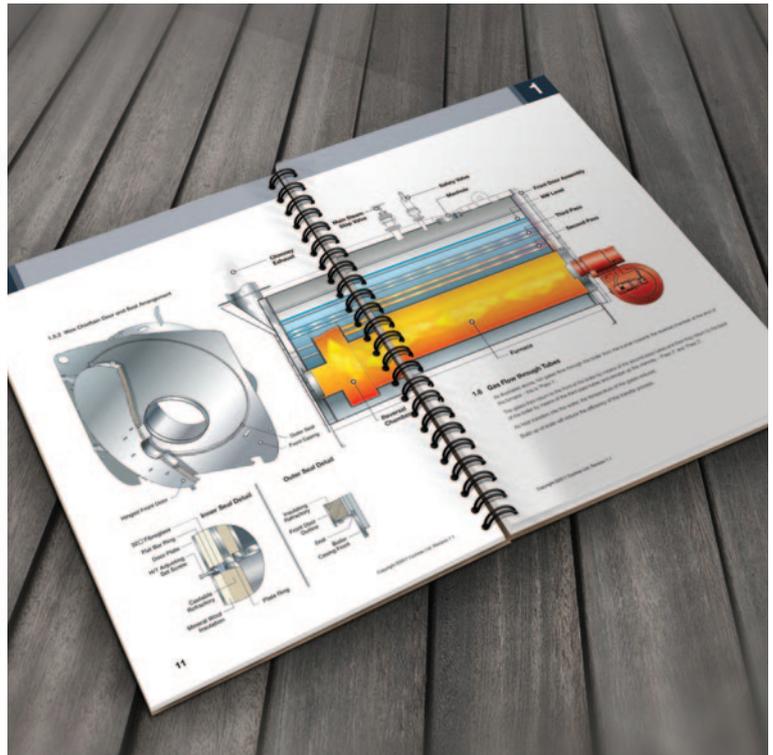
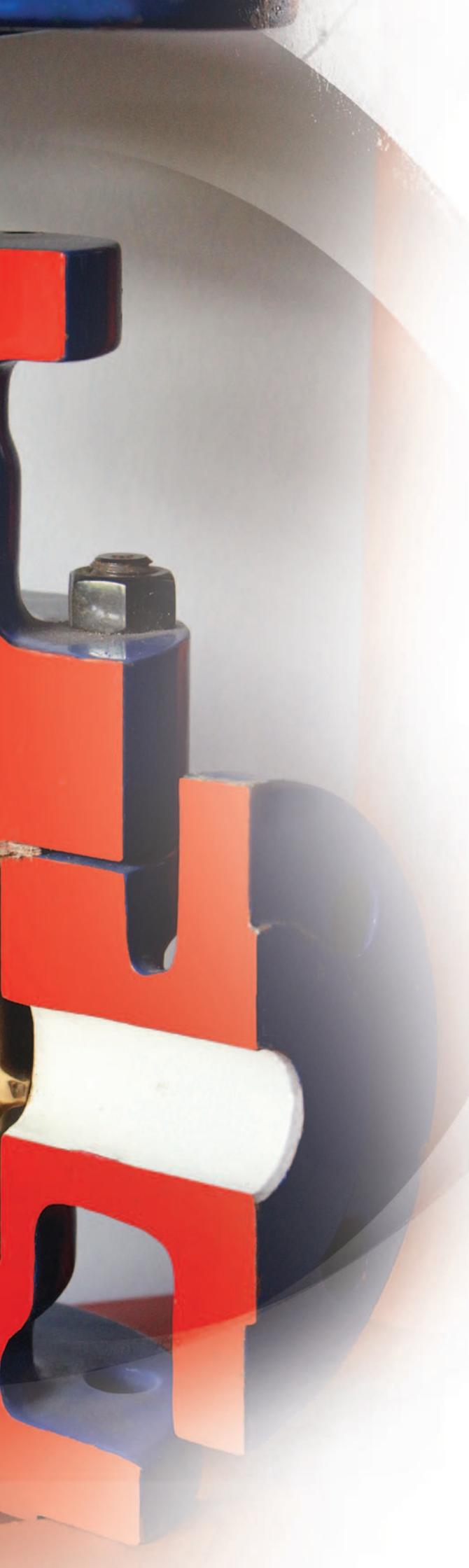
Cochran has a long record of accomplishment and a global reputation for the delivery of premium boiler operation courses, regardless of the make of boiler and associated equipment.



The benefits of Cochran Training

- **Efficiency:** A drop of just 0.5% boiler efficiency could cost thousands of pounds in excess fuel usage, but a Cochran trained boiler operator is taught how to keep the boiler running at peak performance.
- **Safety:** The HSE and Insurance Companies require proof of competence. Ensure that those responsible for day-to-day boiler operation, or overall management, have been trained to be fully conversant with the risks, safe procedures and best practice in the boilerhouse.
- **Environmental:** Ensure you comply with current legislation by training your personnel in the correct procedures to minimise emissions.
- **Morale & Motivation:** Well trained staff not only deliver better results through operational efficiency, but operators who feel more valued have higher morale and are better motivated workers.





Cochran's Training Courses are accompanied by comprehensive high quality full colour notes that combine extensive notes on operation and maintenance with all the relevant legal requirements to form an invaluable reference source for years to come

- **Comprehensive:** Every Cochran training course is accompanied by premium quality full colour notes that comply with all the latest UK and EU legislation and best practice, including specially commissioned illustrations and diagrams, that form an invaluable long-term reference guide for candidates.
- **Exclusive:** Cochran fully compliant training notes were specially written for our courses by some of the most respected experts in the industrial boiler sector, they are not available anywhere else.
- **BOAS:** Cochran's BOAS accredited training courses feature a large ring binder with several hundred pages of information, separated into well defined tabbed sections, with information for both operators and managers clearly marked.
- **Other Courses:** All other Cochran course candidates receive a high quality full colour wire bound document featuring all the information relevant to their course.
- **Safety:** The notes include important information on current Health & Safety best practice and legal requirements.
- **Legislation:** Extensive appendices at the back of the notes include copies of the latest legislation and official guidance, as well as details of log book requirements.

Boiler Training

Cochran's small class sizes and close, personal attention deliver a near perfect BOAS PASS RATE!

Boiler Operation Accreditation Scheme (BOAS)

Steam, Hot Water, Water Tube & Dual Courses: In association with Combustion Engineering Association (CEA), these intensive courses provide knowledge of current legislation and guidance (including BG01), relevant to the safe operation and management of industrial boiler plant. To attend the course candidates need to provide evidence that they have the necessary boiler operation and/or management experience. The course consists of ten modules which cover the essential knowledge required for operators to undertake their duties safely and efficiently, plus the additional information required by responsible managers. Assessment is through examination and a meeting with an independent assessor. On successful completion of the assessment process the candidates are CEA accredited for five years.

Cochran provide a comprehensive training manual covering the full course content, as well as including copies of the key guidance and legislation, which will act as a handy future reference. Courses are held throughout the year, or can be delivered at your site if there are suitable numbers.

- Five Day BOAS Category 2 Steam
- Four Day BOAS Category 1 Hot Water
- Seven Day BOAS Dual Steam & Hot Water
- BOAS Site-Based Category 3 Water Tube

BOAS Re-Accreditation Courses

After 5 years the CEA accreditation must be renewed to ensure candidates are up-to-date with changes in legislation and the latest guidance, book into our re-accreditation courses before your certificate expires.

- Three Day Re-Accreditation for Steam OR Hot Water
- Five Day Dual Steam and Hot Water Re-Accreditation

Boiler Operation, Maintenance & Safety Awareness (BOMSA) Courses

Available in one day, two day or hotel-based formats.

Primarily for Boiler Operators, Maintenance Staff, Plant Technicians, personnel responsible for Health and Safety and Engineers. This an intensive course designed to provide a thorough grounding in the everyday operation and maintenance of boilers, burners and boiler auxiliary equipment. The course also covers all relevant Health and Safety issues, fault identification and emergency situations, as well as essential daily and weekly routines, boiler valves and fittings, water treatment, combustion issues. The ultimate aim of the course to make sure that the plant can be operated safely, efficiently and economically.

The course length, depicts the varying levels of detail the Trainer can offer on subjects. Another factor is, if the course is at your site or our Cochran Training Centre, we can be more hands on and specific. We use this course as the basis for undertaking the five day Accredited BOAS course.

- Two Day Dedicated Course for up to Eight People
- One Day Dedicated Course for up to Eight People
- One Day Mixed Candidate Hotel Course

Bespoke Training

Many businesses have specific Health & Safety, operational or security issues. If this is the case, a Cochran trainer will tailor a course to meet your requirements. Costs are dependent on course specification and venue.

- Courses can be any length and developed any course, or can even be completely tailor made if required.

Boilerhouse Water Treatment Awareness (BWTA)

Primarily for Boiler Operators and Managers who wish to better understand and manage the water quality of their boilers and the contractors supplying such services.

Correct water treatment is critical to safe and efficient operation of an industrial boiler, as well as its longevity. Inadequate (or non-existent) water treatment can lead to high blowdown rates and fuel consumption, poor steam quality, damage to the boiler leading to expensive repairs and in the worst cases personnel injury and fatality.

The course aims to give boiler operators and managers, who are not specialist chemists, knowledge of basic concepts, equipment, routine testing and recording of boiler water treatment.

It does not replace the need for regular visits by water treatment specialists but will enable attendees to better understand the daily checks and routines that they need to carry out and why; to recognise earlier if things need attending to; to be able to better understand, and if necessary challenge, the service and value for money provided by your water treatment suppliers.

The course covers why we need to treat boiler feedwater and condensate, consequences of poor water treatment, feedwater Pre-Treatment systems, deaeration, boiler blowdown and Total Dissolved Solids (TDS), boiler water pH, chemical dosing, water sampling, daily checks and recording and the treatment of scale and corrosion.

- One Day Dedicated Course for up to Eight People
- One Day Mixed Candidate Hotel Course

Boiler Operation & Maintenance with Burner Combustion Course (BOM-BC)

Cochran has teamed up with Autoflame/BK Labtech to combine our popular BOM course with an intensive third day course providing detailed coverage of Autoflame's combustion control systems. The course will be run BK Labtech's state of the art Biggin Hill Training Facility, complete with working Cochran boiler equipped with the latest Autoflame combustion and control equipment.

This course is designed primarily for Boiler Operators, Maintenance Staff, Plant Technicians and Engineers. It is an intensive course designed to provide a thorough grounding in the everyday operation and maintenance of boilers, burners and boiler auxiliary equipment.

The additional third day covers burner combustion principles, fuel-air ratio control and maintaining load demand efficiently. The course also covers all relevant Health & Safety issues, fault identification and emergency situations. The ultimate aim of the course to make sure that the plant can be operated safely, efficiently and economically.

- Bookings for this three day course should be made directly with BK Labtech on + 44 (0)1959 578849, email nicola@bklabtech.com or visit www.bklabtech.com

I-GAS Training

Cochran is now approved by the Combustion Engineering Association (CEA) to deliver the new I-GAS industrial gas training and assessment for engineers and technicians working in factory premises containing gas fired equipment. I-GAS is the only formal accreditation currently available that is specifically designed for maintenance staff and technicians working with gas in industrial premises.

The courses are suitable for Engineers and Technicians working on gas equipment in factory premises who can demonstrate suitable, appropriate experience and who have completed an approved gas qualification such as CCN1 and COCN1 or equivalent. An entry level (Level 1) is available for less experienced operatives.

The I-GAS qualification is currently available in various levels as follows:

Level 1: Entry Portfolio: This is an entry level knowledge check for candidates with little gas work experience. The Level 1 courses DOES NOT permit a successful candidate to carry out any work on gas systems, but it qualifies candidates with suitable experience to move onto Levels 2 and 3

The home learning pack familiarises candidates with gas industry standards, legislation and procedures. The Candidate is assessed through a 60 minute Multiple Choice exam paper (open book).

Level 2: Industrial Gas Maintenance: For Candidates working on pipework, safe procedures for gas work, breaking into gas ways, repairing or replacing gas line components, strength test, tightness testing, purging and relighting end of line equipment.

Level 3: Industrial Gas Technician: For Candidates working on gas burners, gas pipework, understanding combustion principles and equipment, combustion analysis and emissions, setting regulators.

Both Level 2 and Level 3 are intense five day courses, consisting of practical and theoretical training with written examinations (open book) and practical assessment.

On successful completion assessment and approval by the CEA, the candidate is issued with a unique I-GAS identity card which is valid for 5 years. After 5 years the candidate will need to be reassessed to ensure compliance with current standards and practices

Please note:

- 1.Candidates can access any Level for which they already have suitable qualifications and experience. However, assessment at the higher Level DOES NOT offer a presumption of competence at a lower level.
- 2.I-GAS is NOT a substitute for ACS / Gas Safe Register qualifications, for work in locations where these are a legal requirement.

- Level 1 I-GAS Knowledge Assessment
- Level 2 I-GAS Training, Three Day
- Level 3 I-GAS Training, Three Day
- Dedicated courses are available for up to Eight People

