

**Byworth**  
BOILERS  
Lifecycle Services





Dennis Baldwin, Founder of Byworth Boilers. Dennis used steam to heat his commercial greenhouses where he grew Chrysanthemums.



# Our Story

Dennis Baldwin – the customer turned entrepreneur - the essence of our brand and our heritage.

Byworth Boilers was founded in 1968 by Dennis Baldwin, a well-established chrysanthemum and tomato grower. The entrepreneur ran his own successful business from the young age of 17.

Based on three sites around Yorkshire, Dennis used steam boilers to heat his three acres of glasshouses.

He came from a long line of engineers and with that inherent talent, he decided to design and install his own heating and boiler systems. Soon after, other horticultural businesses were recognising his flair for producing high-quality steam boilers and the demand for his products rose.

With two sons more interested in engineering than growing, Dennis took the brave decision (aged 42) to make a career change. He sold his successful horticultural company to finance a land investment to set up a factory. This is when Dennis Baldwin & Sons boiler manufacturers were first established, later to be known as Byworth Boilers. They supplied steam boilers, not only to growers but to other industries as well.

Dennis was able to build a product that better suited the needs of his industry. These values remain today as Byworth seek to produce solutions that fit the customer's requirements, never offering a 'one size' fits all.

We understand the challenges organisations often face, and our team of experts will work in partnership with you to deliver solutions that better support your individual needs.

## Our Customers

- Today we serve a diverse range of customers, big and small, in a multitude of industries including:
- |                     |                                    |
|---------------------|------------------------------------|
| Food                | Architecture/M&E/Civil Engineering |
| Beverage            | Petrochemical                      |
| Healthcare          | Animal Feeds & Farming             |
| Paper and Packaging | Laundries                          |
| Pharmaceutical      | Textiles                           |





# SERVICE

Your industrial boiler is critical to your operations and when it comes to maintenance, no one is better equipped than us. As the Original Equipment Manufacturer, we understand your system inside and out, ensuring maximum reliability, efficiency, and performance to keep your business running at its best.

With our dedicated team of skilled specialists, we're fully equipped to meet all your maintenance needs, ensuring your equipment stays in peak condition and your operations run without a hitch.

Our Service Team cover the following areas of maintenance and support –

- Planned maintenance (Including annuals and burner servicing)
- Breakdowns and call outs
- Upgrades (Including conversions and small works)
- Service Connected



# PLANNED MAINTENANCE

With regular preventative servicing from the people who built your boiler, you'll not only reduce downtime but also maintain peak fuel efficiency and performance.

Whether you need an ad-hoc service on an ongoing contract, we have the team and resources for all your needs.

We know every plant is different—and so are your servicing needs. That's why we offer tailored service contracts designed around your specific requirements, while still covering all the essentials.

By following our planned maintenance schedule we will ensure your equipment stays reliable and efficient, minimising potential downtime.

From comprehensive maintenance and repairs to health checks and emergency callouts, we've got you covered.

Our service packages include

- Routine boiler and burner servicing
- Annual and six-monthly health checks
- Insurance inspection preparation
- Ad-hoc servicing and repairs
- Boiler efficiency testing
- NDT preparations
- Priority on call outs and breakdowns
- Reduced costs on repairs and parts







# BREAKDOWNS

When your equipment breaks down we will always be on hand to help you get back up and running.

With incomparable knowledge of our equipment and backed by our technical support team, our engineers can identify faults and issues quickly and efficiently.

Working closely with our supply chain and supported by our own manufacturing facility, we provide unrivalled response that counts.

Contact us -

service@  
byworth.co.uk

+44 (0)1535 665225



Looking for more control  
over your boiler house?

Have you considered  
Service Connected?

See page 8 for details.

# UPGRADES

Could your boiler house perform more efficiently?

Upgrades and enhancements are often a smart way to improve performance without full replacement—and as the OEM, we are best placed to advise on the most effective solutions for your system. Our expert team will work with you to identify energy saving opportunities tailored to your specific setup.

Trust the team that  
built your boiler to  
help you get the most  
out of it.



Popular efficiency upgrades include:

- Modulating level controls
- Burners
- Economisers
- Unity control system
- Level control systems
- Valves and pipework
- Gas boosters
- High-quality probes

Typical fuel savings:

- Burners: up to 3%\*
- Economiser: up to 5%\*

\* At Maximum Continuous Rating





# SERVICECONNECTED

Enabled by our award winning Unity control system, Service Connected is our revolutionary new service that enables us to provide dial in support to remotely identify and fix issues fast and efficiently.

Available exclusively to our Service Contract customers, Service Connected is the only service of it's kind on the market.

Including comprehensive advice and month on month analysis, Service Connected will provide your operators with the essential data they need obtain significant long term savings.



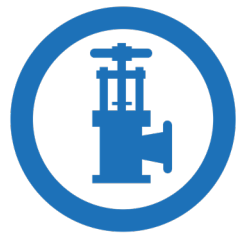
Unity is an advanced boiler control system offering unprecedented management, efficiency, visibility, and fingertip control. It is capable of recording and cross-referencing data trends from every discrete system area to implement efficiency and cost-saving responses.

Unity's value is in its capability to significantly reduce cost, improve product & service performance and provide better value to our customers with improved response times as well as enhanced onsite efficiency.

Unity can be retrofitted to your plant by one of our highly experienced service engineers, so it is never too late to consider upgrading to a Unity controlled system.







# SP//ARES

A comprehensive range of industrial boiler spares to suit a variety of boilers and boiler house equipment.

Completing your boiler repairs as quickly as possible is vital to keeping downtime to a minimum – when things go wrong waiting for parts just isn't an option!

Whether you have steam boilers, industrial hot water boilers or any ancillary equipment, we have all you need to keep on top of your equipments needs.

Popular stocked items -

- Pumps
- Valves
- Flange, manhole and mudhole gaskets
- Water treatment chemicals & kits
- Blowdown vessels
- Boiler insulation
- Door seals
- Gauge glasses
- Sight glasses
- Refractory
- Pipework insulation
- Ceramic insulation
- Byworth can also supply replacement boiler sections for all types of industrial boilers, including shell and tube sections, furnaces and boiler repair plates



Keeping your plant running  
Fast and efficient despatch from our  
Spares & Trade counter

Contact us -

[spares@byworth.co.uk](mailto:spares@byworth.co.uk)

+44 (0)1535 665225







# TRAINING

As the leading British boiler manufacturer, Byworth offers candidates a unique operation training experience.

Your boiler operators are key to ensuring reliable, safe, and efficient day to day running of your plant, therefore investment in training will have a direct impact on your boiler operation.

Leverage Byworth's market leading training facilities alongside the extensive experience of our trainers to give your operators the best opportunity to learn.

Attendees will gain valuable practical experience in our operational boiler house, the theory of boiler operation in our customer centre, and witness British steam boiler manufacture from raw material to completed product in our manufacturing facility.

## Our Courses

- Boiler Operator Fundamentals (City & Guilds Assured)
- Boiler Management & Efficiency (City & Guilds Assured)
- Water Treatment (City & Guilds Assured)
- Annual Inspection Preparation (City & Guilds Assured)
- Safe Operation & Management of Industrial Steam Boilers (City & Guilds Assured)
- Risk Assessment Workshop
- Boiler Operator Accreditation Scheme (BOAS)

If your organisation requires a number of candidates to be trained, or specific training on your own equipment, Byworth can offer training at your site tailored to your specific needs.

Hands on, practical training in a controlled environment is the best way to learn how to safely operate and maintain a boiler.



## ASSURED

The City & Guilds assured Steam Boiler Fundamentals course focuses on best practice for maintaining a more efficient plant and is aimed at those with limited experience of boiler operation.

This two day course delivered at our manufacturing facility in Keighley, West Yorkshire, covers a number of topics which will ensure participants complete the course with the confidence and skill to enhance their plants performance.

The Steam Boiler Fundamentals will cover -

- Steam fundamentals
- Principles of heat transfer
- System losses
- Basic overview of boiler controls (water level controls, blowdown procedures, etc)
- Routine safety checks including - gauge glass operation, evaporation test & cold start-up
- An introduction to feed water systems and water treatment
- Basic boiler house management
- Boiler construction (including factory tour)
- Safety guidelines Including - HSE Guidance notes INDG436 and BG01
- Delegates have the opportunity to operate a live boiler and witness various stages of our production line, gaining a unique insight into the subject matter

Practical training in our state of the art boiler house.



"The facility has a great study room with views over the manufacturing floor, so you get a real feel for the work going on around you.

We had a tour of the working areas which was very interesting all the aspects of manufacture were explained from delivery of sheet metal to the finished product all wrapped and leaving site. Job well done!"

Trustpilot review



# WATER TREATMENT

Controlling water quality to protect your steam boiler system.  
A fast paced, 1 day course, assured by City & Guilds

The water quality in your boiler has a big impact on energy efficiency and the reliability of your whole steam system. Poor or inadequate steam boiler water treatment has been shown to be the cause of 95% of all boiler failures. Often this is a result of poor management of the water treatment regime by whoever is collectively deemed responsible.

Byworths water treatment course in accordance with BG01, will provide you with the skills you need to monitor and control your boiler water quality to suit the changing steam demand on your boiler.

Delegates will have the opportunity to work with live testing, using chemicals to ascertain certain water conditions.

The course is limited on the number of delegates to ensure there are a maximum of 6 people per trainer when completing the live testing.

Our water treatment course can be tailored to suit customers needs and can be run from your site using your own equipment if required, or at our training facility.

Our fully equipped training facilities allow us to take the practical elements of our water treatment courses from the classroom to a working boiler house.

Here candidates get the full experience of the demands of performing these tasks on site.



"The training provided is both classroom based in a modern training facility, and hands on within a working boiler room which allowed me to experience and practice real world application of what is being taught."

Customer Review

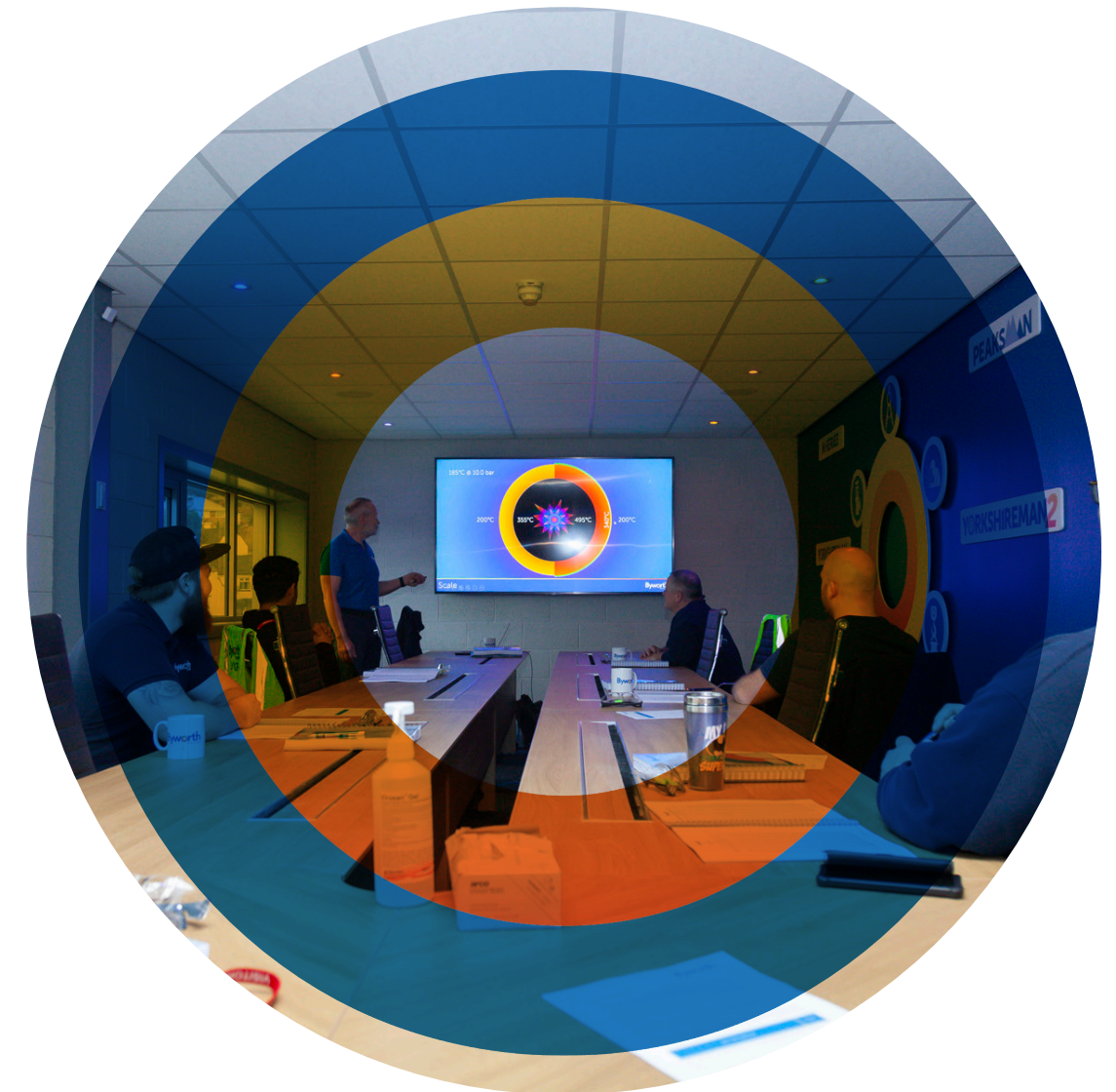


# EFFICIENCY

Boiler Management & Efficiency is a valuable one day course for boiler equipment managers who are concerned with operating efficiency.

Improve your site's efficiency and cut operational costs with our Boiler Management and Efficiency training course. Designed for boiler managers, this City & Guilds assured course covers the best practices for optimising boiler performance, reducing fuel consumption, and maintaining equipment for long-term reliability.

By implementing effective management strategies, you'll learn how to maximise efficiency, minimise downtime, and ensure compliance with industry standards—all while saving costs on fuel and maintenance.



The course focuses on the practical application of safe and efficient boiler management and will cover:

- Legal Framework
- Managing and understanding risk
- Maintaining water standards
- System heat loss
- Steam systems
- Maintenance to save fuel
- Equipment to save fuel
- Control to save fuel
- Metering to save fuel
- Control philosophies & metering technologies



## ASSURED

A thorough five day course assured by City & Guilds. The Safe Operation & Management of Industrial Steam Boilers course puts practical skills at the forefront.

Built from our extensive knowledge of training apprentices as and boiler makers, as well as delivering traditional boiler operation courses, our City & Guilds assured Steam Boiler Operator course puts practical skills at the forefront. This hands on course leverages our modern facilities to back theory with assessed practical skills.

This course is designed to give candidates a thorough understanding of the boiler house and industrial boiler operation, giving operators the knowledge and skill required to confidently operate their own equipment safely and efficiently.

Incorporating both practical and classroom based learning, this logical and holistic approach to boiler training ensures

candidates are given the opportunity to engage with the trainer, the equipment, and the learning process. The 12 teaching modules are logically arranged to cover the boiler system from cold water supply, through control, and ending with the basics of boiler management. At the end of each section of learning there will be a short online exam or practical assessment.

Assessing the course in this way reduces the stress and anxiety that can be caused by an end point assessment and allows candidates to focus on the key learning points from each module.

The practical elements of the course will be assessed by industry professionals with many years of experience working within the boiler house environment.

### Course Key Learning Points:

- Recognise & deal with emergencies, safely re-start the system
- Understand legal responsibilities relating to steam systems
- The ability to interpret, test & manage water treatment
- Calibration, testing & setting of blowdown systems
- Diagnose & fix common water level issues
- Carry out Daily & Weekly testing
- Where to start with risk assessment
- Future technologies
- Manage the steam system to return optimum efficiency
- Recognise & understand the basic components of a steam system
- Understanding combustion
- Understanding metering and steam traps
- Read & interpret combustion results, recognising good combustion





# INSPECTION



The Annual Inspection Preparation course is a valuable four day course for engineers that are preparing for boiler inspection, assured by City & Guilds.

This course is ideal for Boiler engineers and maintenance personnel, plant operators involved in boiler servicing, and engineering teams responsible for compliance and safety.

The Annual Inspection Preparation course is a practical course involving the stripping down, and rebuilding of an industrial steam boiler in preparation for annual inspection and Non-Destructive Testing (NDT).

This training provides a comprehensive blend of theoretical knowledge and hands-on practical experience, ensuring engineers feel confident in maintaining and managing their equipment effectively.



## Key Learning Outcomes

By the end of this course, participants will:

- Understand the step-by-step process of stripping down and rebuilding an industrial boiler for inspection
- Learn best practices for maintenance to ensure minimal downtime and maximum efficiency
- Understand working test
- Develop confidence in handling safety procedures during servicing and NDT preparation
- Gain hands-on experience with boiler components, tools, and safety protocols
- Enhance their ability to troubleshoot potential issues before and after inspections

# TRAINING PACKAGES

Take the stress out of your training needs with our Training & Accommodation Package at Hollins Hall Hotel & Country Club.

This package includes your chosen training course, delivered at our Keighley facility, led by expert instructors in a professional setting.

Your package also includes:

- Accommodation at the stunning Hollins Hall Hotel & Country Club
- Allowance towards your evening meal at the hotel's restaurant
- A full breakfast to start your day
- Access to the swimming pool, gym, and free Wi-Fi
- Optional use of the on-site golf course (additional fee, bookable directly with the hotel)





# RISK ASSESSMENT

Having a current risk assessment of your boiler house is a legal requirement under the Management Health and Safety at Work Regulations.

Your risk assessment will also need to be reviewed if you have a change in circumstances, such as new staff members, changes in steam demand or have a hire boiler installed.

Our Risk assessment training will give you the knowledge and understanding required to take ownership of your boiler house risk assessment.

This course runs over two days. Delivered on your site, using your equipment.

What we will cover:

- Introduction to Risk Assessment and assessment approaches specific to boiler houses.
- Legal framework
- Risk Management and understanding
- Recording, evaluating and reviewing
- Mitigation
- Consultancy/workshop on your current risk assessment

We teach you how to use the information you have learned to make your site a safe and productive working environment.

Upon completion of the course you will leave with a complete risk assessment document based on your individual site requirements.

Contact us -

training@  
byworth.co.uk  
+44 (0)1535 665225



# ACCREDITATION

The Boiler Operator Accreditation Scheme (BOAS) is intended to give Accreditation to persons who already have experience of boiler operation.

The course aids attendees in satisfying BG01 'Guidance on Safe Operation of Boilers' recommendations, with operators advised to attain 'Certified Industrial Boiler Operator' status (Cert.IBO) and managers 'Diploma in Boiler Plant Operation Management' (Dip.BOM), respectively.

Our consultants tailor the course content and discussion to your site requirements with lots of best practice tips for maintaining a more efficient plant.

This four day course covers all aspects of the boiler house from the principals of steam through general operation and maintenance, to efficiency, environmental issues, and legislative requirements.

Delegates will have the opportunity to work on a live boiler and witness boilers at each stage of production, gaining a unique insight into the subject matter.

The course covers the following topics -

- Principles of heat transfer
- Boiler house management
- Detailed overview of boiler controls, water level controls, blowdown procedures, etc
- Feed water storage systems & water treatment
- Routine safety checks including: gauge glass operation, evaporation test & cold start-up
- Boiler construction (including factory tour)
- Safety guidelines Including: HSE Guidance notes INDG436 and BG01



"I took the BOAS boiler training course BG01 at Byworth Boilers.

I have to commend the team there on their professional, friendly, and supportive way in which we were treated.

Our tutor presented the theory and practical elements in a way that made you feel relaxed and comfortable. You could not ask for better people to get you through the course work and the exam."

Customer Review



# Training Comparison

Subjects Covered	C&G Fundamental	C&G Efficiency	C&G Water Treatment	C&G Operations	C&G Annual NDT	CEA BOAS	Risk Workshop
Heat Transfer Principles	Intermediate			Intermediate		Intermediate	
Steam Fundamentals	Intermediate			Intermediate		Intermediate	
Primary Water Treatment	Advanced	Advanced		Advanced		Intermediate	
Secondary Water Treatment	Advanced	Advanced	Intermediate	Advanced		Intermediate	
Steam/Condensate Cycle	Intermediate	Intermediate	Intermediate	Advanced		Advanced	
Generic Steam System	Intermediate	Intermediate	Intermediate	Advanced		Intermediate	Advanced
Principles of Safe Operation	Intermediate			Advanced		Advanced	
Boiler Construction	Intermediate			Advanced	Advanced	Advanced	
Fundamentals of Combustion	Introduction			Advanced		Advanced	
Controlling Combustion	Intermediate	Intermediate		Advanced		Advanced	
Controlling Water Level	Intermediate	Intermediate	Intermediate	Advanced		Advanced	
Verifying Alarms	Intermediate			Advanced		Advanced	
Boiler Operator Routines	Advanced			Advanced		Advanced	
Controlling TDS	Intermediate		Intermediate	Advanced		Advanced	
Guidance & Best Practice	Intermediate		Intermediate	Advanced		Advanced	Advanced
Regulations	Intermediate	Intermediate		Advanced	Advanced	Advanced	Advanced
Risk Assessment	Introduction	Intermediate	Intermediate	Intermediate		Introduction	Advanced
Controlling Steam System	Intermediate	Intermediate		Advanced			
Troubleshooting	Intermediate			Intermediate			
Environmental	Introduction	Intermediate		Intermediate		Intermediate	
Metering		Advanced		Intermediate			
Practical Sessions	Intermediate		Intermediate	Advanced	Advanced	Intermediate	Advanced

## Assessment Method

Certificate Of Attendance	◆						
Quiz	◆ *						
Examination	◆	◆	◆	◆		◆	
Assessment				◆	◆	◆	
Workshop					◆		◆

## Location

Duration	2 days	1 Day	1 days	5 day	4 days	5 days	2 days
Keighley	◆	◆	◆	◆	◆	◆	
On-Site	◆*					◆	◆

\*Fundamentals on customer sites do not qualify for C&G assured certification.

## Notes

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## Contact us

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**[byworth.co.uk](http://byworth.co.uk)**

OEM  
Partner

Endress+Hauser   
People for Process Automation