



# Our 2026 Training course portfolio

THINK STEAM TRAINING, THINK SPIRAX SARCO



First for Steam Solutions

EXPERTISE | SOLUTIONS | SUSTAINABILITY



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# Welcome

**Where has the time gone? It's been another incredible year at the UK Steam Technology Centre, and we're so grateful to all our customers – new and returning – for your continued support and enthusiasm. Your feedback continues to inspire us, and it's clear that the quality, relevance, and delivery of our courses are hitting the mark.**

In 2025, we were proud to launch three new courses: one focused on sustainability, another on responding to boiler alarms, and a third on electric boiler operation. These additions reflect the evolving needs of our industry and your teams, and we're thrilled with the positive response.

Looking ahead to 2026, we're excited to introduce our **Boiler House Managers Programme** – a new pathway designed to support those stepping into leadership roles within steam operations. We've also developed a brand-new classroom space, tailored specifically for our maintenance-based courses, giving us even more flexibility to deliver hands-on, practical training in a modern learning environment.

As global challenges continue to shape the way we work, ensuring your teams are equipped with the right skills remains more important than ever. Safety, sustainability, and efficiency are at the heart of everything we do, and we remain committed to helping you meet these demands with confidence.



We're also continuing to grow our team and our offering, so keep an eye out for more updates throughout the year. If you'd like to be the first to hear about new courses and projects, just let us know – we'd love to add you to our mailing list.

Thank you again for choosing us as your training partner. We look forward to welcoming you soon – and don't forget, we're all on LinkedIn if you'd like to connect and stay in the loop!

Best wishes for a successful and safe 2026,

*Sally O'Connell*

**UK Steam Technology | Centre Manager**





**Our heritage,  
training that stands  
the test of time >**



Customer training has a long and proud history at Spirax Sarco. Our first recorded technical education courses were delivered by correspondence during WWII, with in-house training beginning shortly afterwards. Since then, we've continued to evolve – always with people at the heart of what we do.

Training is all about people and it's our people who make us different. Their passion and deep understanding of steam applications across a wide range of industries ensure our training remains current, relevant, and impactful.

Our approach is practical and workplace-focused, helping your teams apply what they learn directly to their roles. Through our training, your business can:

- Increase steam safety
- Demonstrate competence and enhance skill levels
- Maximise efficiency and sustainability of steam systems
- Stay compliant with legislation (e.g. PUWER, BG01)
- Identify process and operational improvements

We're proud to continue this legacy of excellence and look forward to supporting your learning journey.



# Your course, Your way, Your choice >



Face-to-Face  
classroom training



Remote live  
classroom delivery  
via a web platform



Onsite delivery at your site



Blended learning options -  
combining remote live and  
Face-to-Face training



Since 2021, Spirax Choices has given you the flexibility to access training in the way that best suits your team and organisation. While we always recommend our practical, face-to-face training for the most immersive experience, we understand that different situations call for different solutions.

That's why we offer a range of delivery options across our course portfolio. Each course clearly indicates which formats are available, so you can choose what works best for you.

Your Training Options Include:

- In-person training at the UK Steam Technology Centre
- Virtual classrooms for remote learning
- On-site training at your location
- Blended learning combining online and practical elements

### **Ongoing Support: The Knowledge Hub**

To complement your training, we also offer a webinar programme through our Knowledge Hub, designed to provide ongoing support in key areas of steam system operation and safety.

You can register for on-demand webinars and explore additional resources at:

<https://www.spiraxsarco.com/global/en-GB/knowledge-hub>



# Our training centre facilities >

We believe that the best learning happens when knowledge is applied. That's why our training includes **safe, hands-on experience** in our fully operational **boiler house**, as well as in our **maintenance focused practical areas**.

By practicing key skills in a controlled environment, individuals gain the confidence and competence to apply what they've learned when they return to the workplace. Whether it's troubleshooting, responding to alarms, or maintaining equipment, our practical approach ensures your teams are ready to work **safely, efficiently, and effectively**.

## Practical Workshop Zone



# Boiler house



# Product Demonstration Area



## Training rooms



Fully equipped training facilities offering flexible seating



Product cut-sections available to help understand how they work

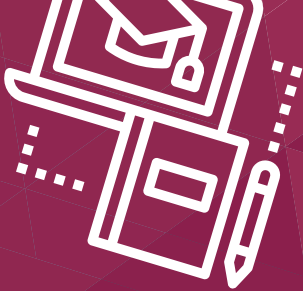


Comfortable delegate areas for breaks and refreshments



Lunch in our outstanding Bistro – your choice from the menu

Head to <https://www.youtube.com/user/SpiraxSarcoUK> to check out a virtual tour of our training centre.



# Correspondence courses >



Did you know we offer learning support materials to help you build confidence before attending a course – or simply to explore a topic at your own pace?

Whether you're brushing up on your knowledge or considering a full training course, our correspondence courses provide a flexible and accessible way to learn. Each course is standalone but complements our scheduled training programmes.

## **Automatic Controls – An Introduction**

A beginner-friendly guide to automatic controls, with a focus on temperature control systems.

## **Hot Water Heating**

Covers key aspects of hot water heating systems, including design and function – ideal for those in building services.

## **Steam Utilisation**

A comprehensive look at steam properties, efficient use of steam and steam plants, and how to improve performance.

To register for one of these courses, visit:  
[spiraxsarco.com/global/en-GB/training](https://spiraxsarco.com/global/en-GB/training) and complete the registration form.



# Meet the trainers who inspire >

At Spirax Sarco, you'll learn from **experienced trainers and industry practitioners** who bring real-world expertise into every session. Their deep understanding of steam systems and applications ensures you receive **up-to-date, relevant knowledge** – directly from those who know it best.

Our trainers are passionate about your development. They introduce practical elements into the learning experience, helping you build confidence and competence in your role. You'll leave with the skills you need and the assurance that your training reflects the **latest industry guidance and legislation**.

***"I try and make my training sessions fun, informative and use the delegates own experiences where possible."***

***I strive to get that light bulb moment from the delegates where they have worked out their own solution to their own problem by giving them the knowledge around the subject."***

**MIKE MASLANKA** Cert IBO DipBOM >  
UK Steam Technology Centre Trainer



***"It's great to see people go from little or no knowledge, even perhaps wondering why they've been sent on the course - to becoming competent in what we are training them in, and be enthused by the subject."***

***I love to hear from delegates – get discussions going, so we can learn from each other's experiences – as well as through the official course content."***

**< TOM SUWART** Cert IBO DipBOM  
UK Steam Technology Centre Trainer

***"One of my favourite things is that you meet a wide range of people from a variety of industries and level of experience."***

***Whilst theoretical knowledge is important for each course, I believe it is equally valuable for delegates to work collaboratively and share their ideas in a supportive environment. It is very pleasing when delegates regularly show an interest in coming back for additional courses."***

**LEWIS GANI** >  
UK Steam Technology Centre Trainer



***"Our team ethos is to support and help those attending our courses to learn and take that knowledge back to the workplace and apply it! We are a passionate team with a wealth of knowledge and experience and we love sharing this with our customers, helping to improve their skills and knowledge and helping businesses to operate safely, efficiently and sustainably."***

**SALLY O'CONNELL** Cert Ed, BA, MSc >

**UK Steam Technology Centre Manager**



***"I get satisfaction in supporting individuals to identify the appropriate training required through to leaving the course pleased with their success. I enjoy liaising with external customers to support their employees improve performance through the correct course."***

***The support we provide removes obstacles individuals may have with learning so that they achieve the learning outcomes. Our trainers inspire people to want to learn and are really enthusiastic on the subject they are delivering."***

**< CHRISTINE TIMMINS**

**UK Steam Technology Centre Administrator**

***"I really enjoy meeting and greeting the customers that come through our Training Centre doors. It's a real pleasure to help them feel at ease and make them comfortable and supported on their training journey with us. I also have a huge admiration for our team and take great satisfaction in making sure they are all assisted throughout their day, helping to make their training courses run smoothly and successfully."***

**LAURA BOUND >**

**UK Steam Technology Centre Assistant**



# Supporting Your Learning Journey

Training is a key part of an individual's development, and choosing the right course at the right time ensures maximum benefit—for both the individual and the business.

## Not Sure Which Course to Choose?

We're here to help!

We love having conversations to understand your needs and recommend the most suitable course. Whether you're unsure about content, legislation, or how steam fits into your operations, our team is ready to guide you. Steam may not be your specialism – but it is ours.

## Additional Learning Support

We're committed to making training accessible for everyone.

Some of our courses include examinations, and we offer **additional support** for delegates with learning difficulties such as dyslexia. We'll work with you individually to find the most suitable approach.

## BOAS Support

As an **Approved Training Provider for the Boiler Operation Accreditation Scheme (BOAS)**, we take our role seriously.

We'll support you throughout the certification process – from eligibility checks and assessment preparation to post-course follow-up. We also provide reminders and guidance during the **5-year renewal period**, ensuring continuity and peace of mind.

## Availability, Quotes & Booking

Details of our booking process can be found on **page 66**.

Our latest course dates are always available on our website. If you're looking for availability or need a quote, just get in touch. We monitor demand throughout the year and add extra dates as needed – so you can be confident the right course will be available when you need it.



# Rewarding competence >

We are frequently asked how you can demonstrate that your team are competent to do their job. We work with a selection of organisations to accredit our courses to help you fulfil this need.



### City & Guilds

City & Guilds is a world leader in skills development with over 140 years of unrivalled experience. The majority of our courses have achieved accreditation to provide you with the reassurance they are of the highest quality. We are continually working on the accreditation of the remaining courses.

### Combustion Engineering Association (CEA)

The CEA is an educational charity which aims to promote the science of combustion engineering. We are an approved training provider of the Boiler Operator Accreditation Scheme (BOAS) for boiler operators and managers.

### Continuing Professional Development

We are committed to the principles of continual learning and demonstration of best practice. The majority of our courses are therefore also available as evidence of continuing professional development (CPD) through the Chartered Institution of Building Services Engineers (CIBSE).

### Institute of Healthcare Engineering and Estate Management (IHEEM)

IHEEM is the UK's largest specialist Institute for the Healthcare Estates Sector. We are proud to be an approved Knowledge Partner offering courses relevant for those employed in the healthcare estates sector.

# Course Progression; Learning Is a Journey >

Training is just one part of an individual's broader learning journey. That's why we've designed our courses to help you and your team build skills and knowledge over time, across a wide range of topics.

Whether you're just starting out or looking to deepen your expertise, our training pathways are structured to support continuous development – so individuals feel confident applying what they've learned back in the workplace, where it matters most.



**MAINTAINING**  
A STEAM SYSTEM



**ALARM**  
RESPONDERS



**THE BOILER OPERATORS  
PROGRAMME**



Intro to Steam



3 MONTHS  
EXPERIENCE



Steam Plant  
Maintenance



Safety Valve  
Accreditation



Safe Isolation inc  
LOTO



Intro to Steam Boiler Awareness:  
First Responders



If you want to expand your  
knowledge add on Intro to Steam



Intro to Steam



3 MONTHS  
EXPERIENCE



Steam Boiler  
Operation  
Fundamentals



Boiler Water  
Treatment



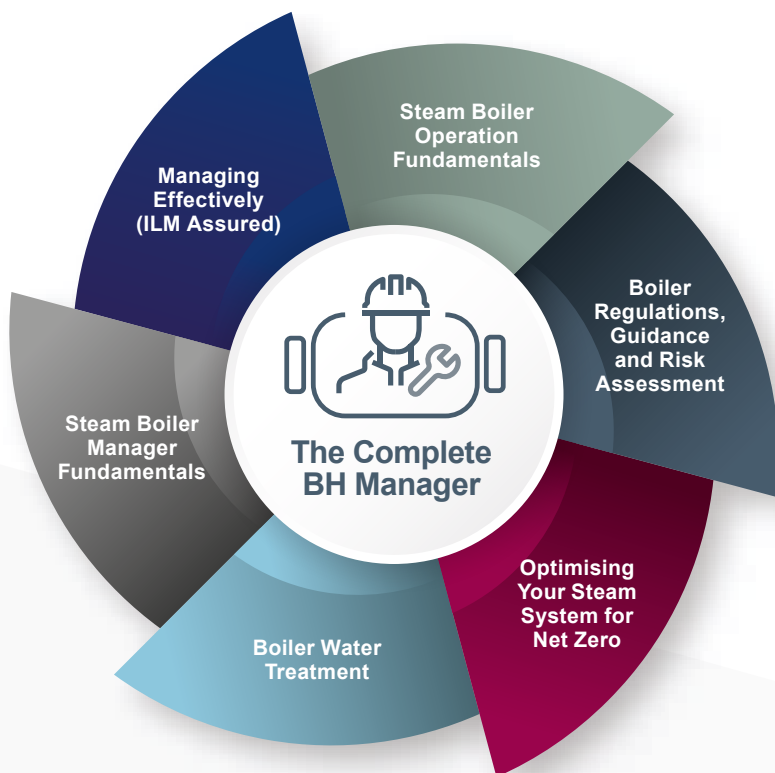
6 MONTHS+  
EXPERIENCE



BOAS Operator

# The Boiler House Managers Programme >

We are proud to introduce a new, comprehensive development programme designed specifically for professionals responsible for managing boiler houses. Whether you oversee a single site or multiple facilities, this programme equips you with the essential skills and knowledge to manage steam systems safely, efficiently, and sustainably.





Over a 12–18 month period, participants attend a series of targeted training courses. Each module is certified individually upon successful completion, culminating in an overall certification that recognises your achievement across all programme elements.

This programme provides a robust foundation of knowledge and practical insight. It may also serve as a valuable precursor to undertaking the BOAS Manager course, should that be relevant to your career path.

#### **Core Modules**

- **Steam Boiler Operation Fundamentals**  
Understand the critical role of boiler operators and the principles of safe and efficient operation.
- **Boiler Regulations, Guidance and Risk Assessment**  
Gain a clear understanding of the legal framework and risk management responsibilities.

- **Boiler Water Treatment**  
Learn how to manage water treatment effectively, including working with third-party consultants.
- **Optimising Your Steam System for Net Zero**  
Explore strategies to improve energy efficiency and support your organisation's net zero goals.
- **NEW: Managing Effectively (ILM Assured)**  
Develop key management skills to lead teams and operations confidently. (No formal assessment)
- **NEW: Steam Boiler Management Fundamentals**  
Discover the responsibilities and best practices of a Boiler House Manager.

Details on all courses can be found in the brochure across pages 28 to 61.

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# NEW TO STEAM COURSES

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These courses provide an introduction to the world of steam and boiler house operation. Ideal for those who have little or no experience of steam – well we all have to start somewhere!

## Courses

Introduction to Steam and Condensate Systems City & Guilds Assured

Introduction to Steam Boiler Awareness: First Responders City & Guilds Assured

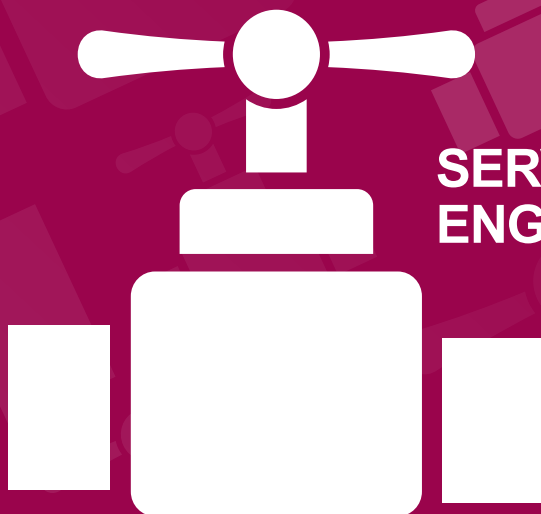
Steam Boiler Operation Fundamentals City & Guilds Accredited

Find out more at [spiraxsarco.com/global/en-GB/training](https://spiraxsarco.com/global/en-GB/training)

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**BOILER HOUSE OPERATOR**  
**APPRENTICE**

**MAINTENANCE TECHNICIAN**  
**SUPPORT FUNCTIONS**



**SERVICE  
ENGINEER**

**ENGINEER**  
**RELIABILITY ENGINEER**

**SYSTEMS DESIGN ENGINEER**  
**SECURITY PERSONNEL**

**PROJECT ENGINEER**

**BOILER INSPECTOR**

**MAINTENANCE ENGINEER**  
**FACILITIES TECHNICIAN**

**ALARM RESPONDERS**

**OPERATION MANAGER**

**SITE MANAGER**



# Introduction to Steam and Condensate Systems

## *City & Guilds Assured*

**Spirax Choices options:** Face-to-Face  
/ Remote live classroom / onsite

**Duration:** 1 day

**Course code:** B1

**For latest course date availability  
please check our website.**



ASSURED

## Who is it for?

Anyone requiring an understanding of steam and condensate systems and factors affecting operation. Ideal for Apprentices, those new to a steam role in any capacity or anyone wanting a basic refresher.

## What is it about?

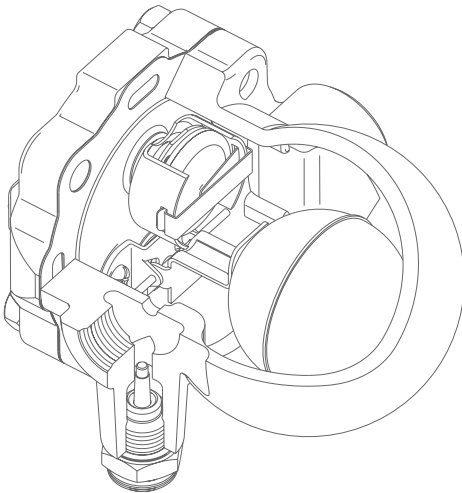
This course provides a broad understanding of the purpose and safe operational requirements of steam and condensate systems.

On completion, individuals will receive a City & Guilds Assured certificate and digital credentials, there is no testing element on this course.

## Course objectives

By the end of the course, individuals will be able to:

- » Understand the fundamentals of steam and its uses
- » Understand why condensate is formed, how and why it is removed and its value
- » Know the major components of a steam and condensate system
- » Understand how steam gets to the point of use
- » Understand the reasons for reducing pressure at the point of use



## What our delegates said

***"Gave me an insight into what steam is and how it is used."***

***"Really good introduction to how the different components work and why they are needed."***

***"Worked really well. The combination of slides, physical demos (objects), flipchart and video clips was brilliant. It really kept the engagement levels up." (remote live classroom)***

***"A really fantastic training session, particularly as it had to be done remotely. Even after lockdown, I think this would work really well and may open up the training to a wider audience." (remote live classroom)***

# Introduction to Steam Boiler Awareness: First Responders *City & Guilds Assured*



**Spirax Choices options:** Face-to-Face  
/ Remote live classroom / onsite

**Duration:** 1 day

**Course code:** D6B

**For latest course date availability  
please check our website.**



**ASSURED**

## Who is it for?

Those who respond to boiler alarms,  
including security personnel.

## What is it about?

This high level course will enable you to  
have a greater awareness of the boiler, know  
how to safely enter a boiler house, identify if  
a boiler is in a safe state or whether action is  
needed and have a better awareness of best  
practice when responding to alarms.

*Please note this course does not provide training to be  
a boiler operator. You will need to attend Steam Boiler  
Operation Fundamentals.*

## Course objectives

By the end of the course, delegates will be able to:

- » Understand the fundamentals of steam
- » Identify the major types of steam boiler
- » Describe the function and importance of boiler fittings
- » Recognise boiler alarms and explain their significance in maintaining safety
- » Understand the correct procedure for shutting down the boiler in an emergency
- » Define waterhammer and respond appropriately
- » Evaluate the potential consequences of failing to act appropriately in boiler-related incidents.



# Steam Boiler Operation Fundamentals (Shell Boiler) *City & Guilds Accredited*



**Spirax Choices options:** Face-to-Face  
/ Blended learning option / onsite

**Duration:** 2 days (inc assessment) /  
**Course code:** D6

**For latest course date availability  
please check our website.**



## Who is it for?

Anyone responsible for the day to day running of steam boilers - large and small and those involved in the planning or upgrading of boiler. It is also relevant for those needing an overview of how a boiler works or as a precursor to the BOAS course.

## What is it about?

This practical course provides an understanding of the wet side of the boiler and outline trends in the management and control of boiler plant in order to achieve high levels of efficiency and safety with smooth operation.

## Course objectives

By the end of the course delegates will be able to:

- » Identify major types of shell boiler
- » Understand the boiler fittings and their use
- » Know the types of daily/weekly tests recommended, including evaporation and water tests, including BG04
- » Understand elements of feedwater treatment, deaeration and storage
- » Understand boiler water level control and alarms
- » Understand blowdown controls, vessels and pits
- » Appreciate the benefits of heat recovery systems and energy efficiency fundamentals
- » Understand the requirements of efficient best practice including legislation and in particular BG01
- » Understand start up and shut down procedures
- » Understand how boilers produce steam and how this can affect other areas of the steam plant, including load

## What our delegates said

***“Really enjoyed learning on this course as it will help to improve my understanding on steam where I work.”***



***“Very useful information on how to work steam boilers.”***

***“I wanted a greater understanding of boiler operation of control, the course content and delivery was excellent, I'd highly recommend the course.”***

***“I would definitely recommend this course, it was excellent. It was informative and well put across - the trainer had great energy. I felt very involved and enjoyed learning from Tom who was a great teacher. Looking forward to coming back for my BOAS!”***  
**Remote Attendee**

***“Very good course good for beginners with little experience on steam.”***

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# BOILER HOUSE COURSES

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Covering all aspects of boiler house operation, management, safety and efficiency from a fundamental level through to the BOAS accreditation.

Ensure your boiler house team are working safely and in line with the legislative requirements under regulation 9 of PUWER and point 6 of BG01.

## Courses

Introduction to Steam Boiler Awareness: First Responders City & Guilds Assured  
Steam Boiler Operation Fundamentals City & Guilds Accredited  
Boiler House Guidance, Regulations and Risk Assessment for Managers  
Boiler House Water Treatment City & Guilds Accredited  
Boiler Operation Accreditation Scheme (BOAS) Operator (Cert IBO)  
Boiler Operation Accreditation Scheme (BOAS) Manager (Dip BOM)  
Boiler Operation Accreditation Scheme (BOAS) 5 year Renewal  
Electric Steam Boiler Operation Fundamentals City & Guilds Accredited

Find out more at [spiraxsarco.com/global/en-GB/training](https://spiraxsarco.com/global/en-GB/training)

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OPERATIONS MANAGER

**BOILER HOUSE OPERATOR**

BOILER HOUSE MANAGER

HEALTH & SAFETY ADVISER

APPOINTED PERSON

ENGINEERING MANAGER



**APPOINTED ENGINEER**

**COMPETENT PERSON**

ESTATES MANAGER

BOILER INSPECTOR

COMPLIANCE MANAGER

SECURITY PERSONNEL

MAINTENANCE ENGINEER

**FACILITIES TECHNICIAN**

ALARM RESPONDERS

**OPERATION MANAGER**

ENGINEER SHIFT TECHNICIAN

MECHANICAL / ELECTRICAL ENGINEER

SITE MANAGER

**ENGINEER**

MANUFACTURING MANAGER

# Introduction to Steam Boiler Awareness: First Responders *City & Guilds Assured*

**Spirax Choices options:** Face-to-Face  
/ Remote live classroom / onsite

**Duration:** 1 day

**Course code:** D6B

For latest course date availability  
please check our website.



ASSURED

*Please note this course does not provide training to be  
a boiler operator. You will need to attend Steam Boiler  
Operation Fundamentals.*



## Who is it for?

Those who respond to boiler alarms,  
including security personnel.

## What is it about?

This high level course will enable you to  
have a greater awareness of the boiler, know  
how to safely enter a boiler house, identify if  
a boiler is in a safe state or whether action is  
needed and have a better awareness of best  
practice when responding to alarms.

## Course objectives

By the end of the course, delegates will be able to:

- » Understand the fundamentals of steam
- » Identify the major types of steam boiler
- » Describe the function and importance of boiler fittings
- » Recognise boiler alarms and explain their significance in maintaining safety
- » Understand the correct procedure for shutting down the boiler in an emergency
- » Define waterhammer and respond appropriately
- » Evaluate the potential consequences of failing to act appropriately in boiler-related incidents.



# Steam Boiler Operation Fundamentals (Shell Boiler) *City & Guilds Accredited*



**Spirax Choices options:** Face-to-Face  
/ Blended learning option / onsite

**Duration:** 2 days (inc assessment) /

**Course code:** D6

For latest course date availability  
please check our website.



## Who is it for?

Anyone responsible for the day to day running of steam boilers - large and small and those involved in the planning or upgrading of boiler. It is also relevant for those needing an overview of how a boiler works or as a precursor to the BOAS course.

## What is it about?

This practical course provides an understanding of the wet side of the boiler and outline trends in the management and control of boiler plant in order to achieve high levels of efficiency and safety with smooth operation.

## Course objectives

By the end of the course delegates will be able to:

- » Identify major types of shell boiler
- » Understand the boiler fittings and their use
- » Know the types of daily/weekly tests recommended, including evaporation and water tests, including BG04
- » Understand elements of feedwater treatment, deaeration and storage
- » Understand boiler water level control and alarms
- » Understand blowdown controls, vessels and pits
- » Appreciate the benefits of heat recovery systems and energy efficiency fundamentals
- » Understand the requirements of efficient best practice including legislation and in particular BG01
- » Understand start up and shut down procedures
- » Understand how boilers produce steam and how this can affect other areas of the steam plant, including load

## What our delegates said

***"Really enjoyed learning on this course as it will help to improve my understanding on steam where I work."***




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***"Very useful information on how to work steam boilers."***

***"I wanted a greater understanding of boiler operation of control, the course content and delivery was excellent, I'd highly recommend the course."***

***"I would definitely recommend this course, it was excellent. It was informative and well put across - the trainer had great energy. I felt very involved and enjoyed learning from Tom who was a great teacher. Looking forward to coming back for my BOAS!"***  
Remote Attendee

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***"Very good course good for beginners with little experience on steam."***



# Boiler Operation Accreditation Scheme (BOAS) – Operator and Manager (including 5 year Renewal)

**Spirax Choices options:** Face-to-Face

**Duration:** 5 days (including assessment)

**Course code:** D6A / D6AR

For latest course date availability  
please check our website.



## Who is it for?

Designed for practicing boiler house operatives or those responsible for managing a boiler house and its operators.

## What is it about?

The Boiler Operation Accreditation Scheme (BOAS) provides national certification for industrial boiler operators and managers. The BG01 guidelines suggest that all competent persons and owners/managers should be trained to the BOAS standard.

BOAS is based on legislation and best practices applicable within the UK and can only be delivered by licensed and approved training providers.

Spirax Sarco is a licensed and approved BOAS training provider and has been since the inception of BOAS.

## Course objectives

This course provides preparation for undertaking the BOAS assessment covering all aspects of the required syllabus.

All awards are valid for five years, after which renewal becomes necessary<sup>2</sup>.

The BOAS syllabus<sup>5</sup> comprises learning outcomes in 10 sections as follows:

1. Safety & Legal
2. Fuel Concepts
3. Draught and combustion
4. Environment
5. Energy Efficiency
6. Basic Heat & heat transfer concepts (shell boilers)
7. Feed water & boiler water analysis (shell boilers)
8. Boilers & Auxiliaries (shell boilers)
9. Operation (shell boilers)
10. Control and instrumentation (shell boilers)

This course only covers cat 2 (shell boilers)

## The assessment process

The course includes all elements of the assessment process for new and renewing candidates.

Both Operators and Managers need to complete the following:

1. Completion of mandatory evidence pack (different requirements for Operators and Managers)
2. Completion of series of written examinations<sup>1</sup>

3. Interview with an assessor to establish the individual's knowledge and understanding, ability skills and experience<sup>4</sup>.

## Pre-requisites

### Essential

Boiler house operatives **MUST HAVE** a minimum of 6 months (100 hours) verified practical experience.

Supply of mandatory evidence pack to demonstrate the above (requirements will be supplied) applies to ALL awards and renewals.

Already BOAS qualified if a renewing candidate.

### Recommended

Familiarisation with the BG01 guidelines.

Attendance on Steam Boiler Operation Fundamentals course – see page 32

## Notes

The renewal option is for already accredited manager/supervisors and operators.

The course should be taken on the fifth anniversary of gaining the BOAS award and five yearly thereafter.

If you have completed BOAS with us before we will send you a reminder, otherwise please contact us before your renewal date. Courses can be taken up to 6 months ahead of expiry.

Refer to page 19 for info on how we support you.

<sup>1</sup> All candidates are required to sit examination papers regardless of award.

<sup>2</sup> A renewal course is necessary at five yearly intervals

<sup>3</sup> Exact examination papers undertaken will vary depending on award.

<sup>4</sup> Interview may be conducted on final day of course or on a pre-arranged date via remote platform depending on course choice

<sup>5</sup> Syllabus may be subject to change

<sup>6</sup> Set by Combustion Engineering Association and subject to change

A photograph of two men in a large industrial boiler house. They are standing next to a large blue cylindrical boiler. One man is pointing at the boiler while the other looks on. The background shows complex piping and industrial structures.

## Boiler house guidance, regulations and risk assessment for managers

**Spirax Choices options:** Face-to-Face

**Duration:** 1 day

**Course code:** RA1

For latest course date availability  
please check our website.

### Who is it for?

Boiler house managers, Appointed Person, Appointed Engineer, competent person, individuals who need to conduct a specific boiler house risk assessment and anyone involved in the safe operation and assessment of a boiler house.

### What is it about?

A practical course designed to provide an overview of the requirements of INDG436: Safe Management of industrial steam and hot water boilers and BG01 Guidance on the Safe Operation of Steam Boilers, how to conduct a risk assessment specific to the boiler house, the requirements of the legislation and a practical related activity using our boiler house.

## Course objectives

By the end of the course delegates will be able to:

- » Understand the principles of risk assessment
- » Complete the risk assessment process
- » Know the definition of a competent person
- » Identify and know the requirements of INDG436 and associated legislation including BG01
- » Know the specific requirements for conducting a boiler house specific risk assessment



## What our delegates said

***"Given me confidence to now actually carry out a risk assessment."***

***"Very informative and eye opening course gave me plenty to think about for writing our risk assessment."***

***"The course was top class. Great course and fantastic trainer."***

***"Brought to the fore all aspects of boiler management I had missed."***

***"Hands on experience on how to build a TBRA."***



## Boiler House Water Treatment *City & Guilds Accredited*

**Spirax Choices options:** Face-to-Face  
/ onsite

**Duration:** 1 day

**Course code:** W1

For latest course date availability  
please check our website.



### Who is it for?

Boiler house managers and operators involved in managing the water quality of their boilers.

### What is it about?

This course is designed to explain why water treatment of steam plant helps to ensure it operates safely and efficiently. The aim is to provide delegates with the knowledge and information to help manage and treat the system effectively. It will also help with managing any third party water treatment contractors you use.

## Course objectives

By the end of the course delegates will be able to:

- » Develop a practical guide to water treatment options
- » Understand the importance of water treatment guidelines, including BG04
- » Develop schemes to prevent scale, corrosion and fouling
- » Understand chemical dosing requirements
- » Know how to put in place a boiler water treatment strategy



## What our delegates said

***"Covered every aspect of everyday checks."***

***"Very useful for Boiler House Managers."***

***"From starting the day unclear of what is involved in maintaining a good water supply to the boiler, I now feel well informed."***

***"What we are doing wrong with our boiler water treatments."***

***"Course was great insight to steam boilers & water treatment."***

***"How to improve our boiler checks."***

***"Improvements I can make at my work place."***

***"Practical implications of poor water quality."***

# Electric Steam Boiler Operation Fundamentals *City & Guilds Accredited*

**Spirax Choices options:** Face-to-Face  
/ onsite

**Duration:** 2 days (inc. assessment)

**Course code:** D6E

For latest course date availability  
please check our website.



## Who is it for?

Anyone responsible for the day to day running of electric steam boilers – large and small and those involved in the planning or upgrading of the boiler.

## What is it about?

This practical course provides an understanding of the electric boiler, operation and outline trends in the management and control of boiler plant in order to achieve high levels of efficiency and safety with smooth operation.

## Course objectives

- » Identify major types of electric steam boiler
- » Understand the boiler fittings and their use
- » Know the types of daily/weekly tests recommended, including evaporation and water tests
- » Understand elements of feedwater treatment, deaeration and storage
- » Understand boiler water level control, alarms and evaporation tests
- » Understand blowdown controls, vessels and pits
- » Appreciate the benefits of heat recovery systems and energy efficiency fundamentals
- » Understand the requirements of efficient best practice including legislation and in particular BG01 (Guidance on safe operation of steam boilers) / (BG13 Guidance on safe Operation of Electrically Powered Steam Boilers)
- » Understand start up and shut down procedures
- » Understand how electric boilers produce steam and how this can affect other areas of the steam plant, including load



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# MAINTENANCE COURSES

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Regular maintenance performed on your steam system will enable you to keep plant running, preventing potential downtime of production and ensuring individuals are working in a safe environment.

Our comprehensive maintenance training will provide methods for safely working on steam systems, help you reduce costs and improve the efficiency of your steam system.

## Courses

Steam Plant Maintenance: City & Guilds accredited

Safety Valve Accreditation (Spirax Sarco valves only) City & Guilds Accredited

[Find out more at spiraxsarco.com/global/en-GB/training](https://www.spiraxsarco.com/global/en-GB/training)

**MAINTENANCE TECHNICIAN**  
MAINTENANCE OPERATIVE

APPRENTICE  
ESTATES MANAGER

**MULTI SKILLED  
ENGINEER**

**TECHNICIAN**  
ENGINEERING OFFICER

ESTATES ENGINEER  
MAINTENANCE ENGINEER

ESTATES TEAM LEADER  
**MAINTENANCE MANAGER**

FACILITIES SPECIALIST  
MECHANICAL & CRAFT ENGINEER

MAINTENANCE FITTER

ENGINEER

**SITE SERVICE ENGINEER**

# Steam Plant Maintenance

## *City & Guilds Accredited*

**Spirax Choices options:** Face-to-Face

**Duration:** 4 days

**Course code:** M2

For latest course date availability  
please check our website.



### Who is it for?

Those involved with the maintenance and installation of steam systems and those wishing to obtain a recognised maintenance based steam accreditation.

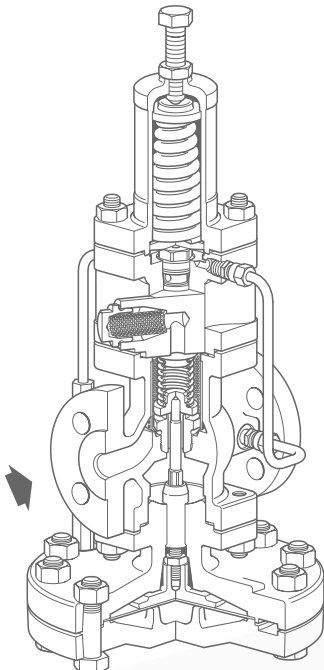
### What is it about?

This course provides delegates with the basic knowledge and practical skills necessary to identify faults and maintain steam systems. Delegate's competence and knowledge will be assessed based on a City & Guilds approved syllabus.

## Course objectives

By the end of the course, delegates will be able to:

- » Understand the fundamentals of steam systems
- » Demonstrate good installation practices
- » Demonstrate fault finding through practical experience
- » Maintain steam traps, pressure reducing valves, condensate pumps and other ancillary equipment
- » Have an understanding of basic elements in the boiler house



## What our delegates said

*"Very good course one of the best courses and instructors I have had, course was perfect."*

*"Extremely helpful for my job. Above & beyond what I expected."*

*"Great course, well delivered by very good trainers, very good and thorough course & content."*

*"Excellent, well informed course thank you."*

*"Excellent, course provided a great balance between steam theory & practical applications."*

*"I have enjoyed the course and gained knowledge to help me with my job by far the best course I have been on."*



## Safety Valve Accreditation *City & Guilds Accredited*

**Spirax Choices options:** Face-to-Face

**Duration:** 1 day

**Course code:** M3

For latest course date availability  
please check our website.



### Who is it for?

Those involved with the installation, maintenance and setting of Spirax Sarco safety valves and requiring training to work on them.

### What is it about?

This course gives an understanding of the importance of safety valves, their sizing, setting and installation and what work may be carried out on them, all in accordance with current legislation.

Delegate's competence and knowledge will be assessed by a City & Guild's approved syllabus.

## Course objectives

By the end of the course, delegates will be able to:

- » Know the purpose of safety valves
- » Understand the selection of set pressure
- » Be able to identify factors affecting sizing
- » Know the main issues around safety valve installation
- » Know the key parts for installation of safety valves
- » Understand what maintenance is permissible and how to carry this out safely

## Additional Information

This course only applies to Spirax Sarco safety valves.



## What our delegates said

***"Was perfect for increasing understanding of safety valves and where they are needed."***

***"Exactly what was required, in-depth & interesting taught me a lot, practical was to the point & showed me exactly what we needed to do."***

***"Brilliant training course as always."***

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# SPECIALIST COURSES

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A suite of specialist courses covering key topics in the steam and thermal energy industry aimed at helping you to improve efficiency and cost savings.

## Courses

Design of Steam and Condensate Systems City & Guilds Accredited  
Steam Quality Testing City & Guilds Accredited  
Optimising your Steam System for Net Zero: Sustainable Pathways  
City & Guilds Assured

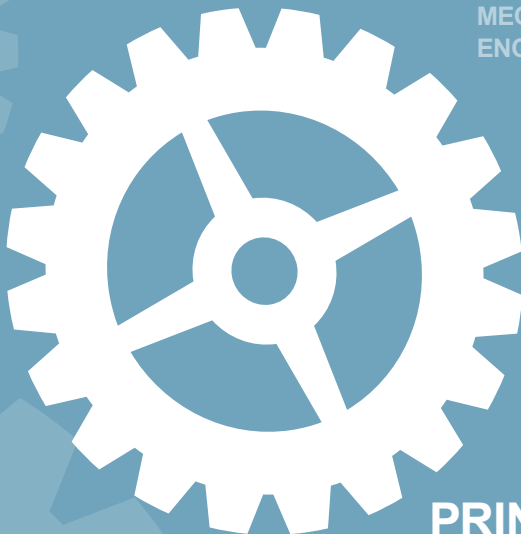
Find out more at [spiraxsarco.com/global/en-GB/training](https://spiraxsarco.com/global/en-GB/training)

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**ENGINEERING PROJECTS MANAGER**  
ENGINEER

**SENIOR MECHANICAL ENGINEER**

MECHANICAL DESIGN  
ENGINEER



**PRINCIPAL  
MECHANICAL  
ENGINEER**

**BUILDING SERVICES ENGINEER**  
**DESIGN & DEVELOPMENT ENGINEER**

SERVICES LEAD ENGINEER

**ENGINEERING PLANNER**

**PROJECT ENGINEER**

**PROCESS ENGINEER**

**HEAD OF MECHANICAL**  
SUSTAINABILITY ENGINEER

**SUSTAINABILITY LEAD**



## Steam Quality Testing *City & Guilds Accredited*

### **Spirax Choices options:**

Face-to-Face / Remote

**Duration:** 2 days

**Course code:** SQT

For latest course date availability  
please check our website.



ACCREDITED

### **Who is it for?**

Individuals who are required to conduct steam quality tests to BS EN 285 standards. This will include pharmaceutical, healthcare and food and beverage sites.

### **What is it about?**

This City & Guilds accredited practical course will enable you to undertake steam quality testing in line with BS EN 285 standards.

## Course objectives

- » Understand the fundamentals of steam systems
- » Understand the different grades of steam
- » Define the attributes of steam quality and why they are important
- » Define the difference between steam quality and steam purity
- » Understand the importance of an 4 main types of Steam Quality tests and how this relates to legislation
- » Demonstrate competence in the use of the Steam Quality Testing kit
- » Identify and know the main requirements of all relevant legislation (inc BS EN 285)
- » Understand micro biology relevant to sterilisation
- » Explain the application and operating principle of steam sterilisers
- » Explain contributory factors to and causes of poor steam quality

## Notes

Renewal every 3 years recommended

## What our delegates said

***"Very informative, well structured."***

***"Really interesting and engaging"***

***"Excellent course, excellent transfer of knowledge."***

***"The course is fun & enjoyable."***

***"Was interesting talking about system design & how steam quality can be improved."***

# Design of Steam and Condensate Systems

## *City & Guilds Accredited*

### **Spirax Choices options:**

Face-to-Face / Onsite

**Duration:** 5 days

**Course code:** D1

For latest course date availability  
please check our website.



ACCREDITED



### **Who is it for?**

Designers, consultants, plant engineers, and those responsible for the general design and layout of steam and condensate services.

### **What is it about?**

This project based course provides specialist knowledge of current practices in steam and condensate systems, and the factors to be considered in their design.

## Course objectives

By the end of the course delegates will be able to:

- » Understand the properties of steam and why it is used
- » Calculate the steam demand for different types of steam plant
- » Understand the requirements of steam distribution system
- » Understand the need for different steam traps and air vents
- » Understand the different methods of steam trap checking and their advantages and disadvantages
- » Explain the requirement to remove and recover condensate
- » Understand the need for pressure reduction and the different types available
- » Explain the factors affecting control valves
- » Realise the importance of flash steam recovery
- » Explain how safety valves are set, lift and leak
- » Size pressure reducing valves, steam pipe, condensate pipe, control valves, steam traps, condensate pumps, flash vessels, safety valves and blowdown vessel

## Pre-requisites

A good level of technical knowledge is recommended.



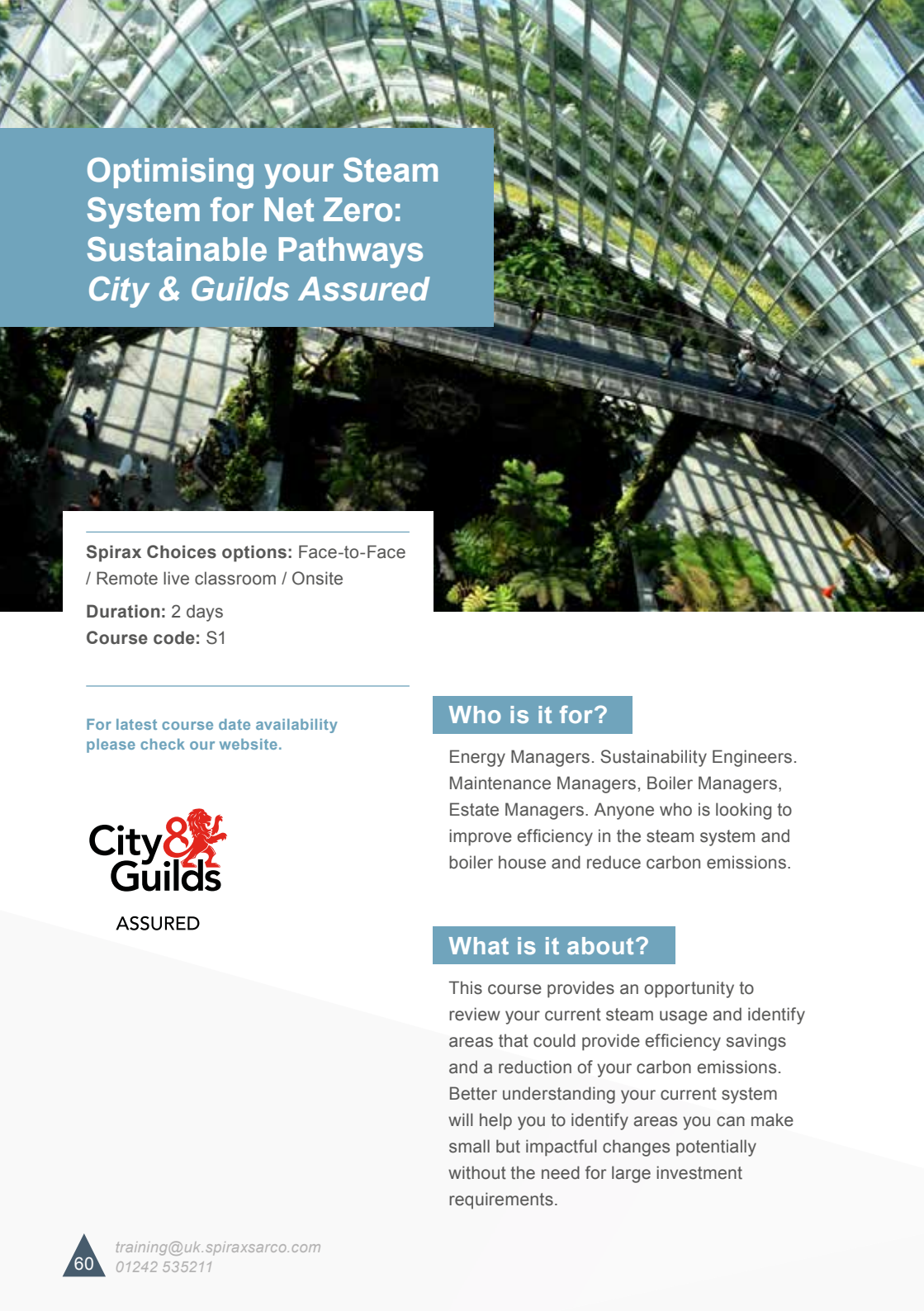
## What our delegates said

*"Exactly what I wanted, a very necessary course if you are working with steam."*

*"Great experience given the delivery method. Very engaging trainers and great energy from both trainers. The two trainers worked amazing as a team in the manner of delivery." (remote live classroom)*

*"This has been very useful and given me great confidence to size steam systems and understand the theory."*

*"It gave a brilliant overview of steam and condensate design and was very well presented."*



# Optimising your Steam System for Net Zero: Sustainable Pathways

## *City & Guilds Assured*

**Spirax Choices options:** Face-to-Face  
/ Remote live classroom / Onsite

**Duration:** 2 days

**Course code:** S1

For latest course date availability  
please check our [website](#).



ASSURED

### Who is it for?

Energy Managers. Sustainability Engineers. Maintenance Managers, Boiler Managers, Estate Managers. Anyone who is looking to improve efficiency in the steam system and boiler house and reduce carbon emissions.

### What is it about?

This course provides an opportunity to review your current steam usage and identify areas that could provide efficiency savings and a reduction of your carbon emissions. Better understanding your current system will help you to identify areas you can make small but impactful changes potentially without the need for large investment requirements.

## Course objectives

By the end of the course delegates will be able to:

- » Gain an overview of the case for global sustainability and its relation to steam systems
- » Understand the properties of thermal energy as a medium for heat transfer
- » Understand steam production in boilers and its impact on the steam plant
- » Gain an overview of key innovations and technology road mapping
- » Acquire the knowledge to read and interpret boiler ratings
- » Understand how to benchmark their system and its impact on company metrics
- » Gain the knowledge to estimate the basic cost of steam and CO<sub>2</sub>e emissions
- » Understand how boiler efficiency affects the cost of steam
- » Be introduced to the 'Rs' of sustainability
- » Identify opportunities in the boiler house and steam plant to improve their current system and meet sustainability targets
- » Identify what can be monitored to help reach sustainability goals
- » Understand the importance of the steam journey: Optimize, Manage, Decarbonise.

## What our delegates said

***"It was excellent, always look forward to a Spirax run course great facilities great people keep it up good to hear from other companies further in the journey and what they do very informative & interesting."***

***"Interested in the sustainability journey and how we can make a small but worthwhile contribution."***

***"New potential opportunities for us to consider."***

***"The little things we do as a company contribute to good sustainability no matter how small we think they are."***

***"Just how much/little we can change to become more sustainable."***

***"How the marginal gains make a big difference."***

***"Spot on for me such a huge subject well delivered."***



# Specialist and Bespoke Training >

**Need something a little  
more specific?  
A little more technical?**



Our team is passionate about steam, which means we can also help on a range of other topics, training areas and bespoke courses that may not need addressing on such a regular basis. For example, Safe Isolation of Plant.

Contact us to chat through your requirements and we will put together a suitable proposal and costings. Bespoke and specialist courses can be delivered through our Spirax Choices offer, subject to minimum numbers and subject to trainer availability.





# Building the case for investing in training >

Training should always be viewed as a strategic investment – one that drives performance, safety, and long-term value. However, securing budget approval for training plans isn't always straightforward.

To support your case, here are some of the key reasons why investing in training is essential >



**IMPROVED OPERATIONAL  
EFFICIENCY &  
PRODUCTIVITY, LESS  
DOWN TIME**



**ENHANCED SAFETY AND  
COMPLIANCE MEETING  
REGULATORY REQUIREMENTS  
AND REDUCING RISK**



**IMPROVES STAFF  
ENGAGEMENT,  
RETENTION AND  
MOTIVATION**



**SUPPORT FOR  
STRATEGIC GOALS  
INCLUDING NET ZERO  
AND BEST PRACTICE**



**UPSKILL YOUR  
WORKFORCE TO CREATE  
A DIVERSE SKILL SET**



**ENHANCES CUSTOMER  
SATISFACTION**



**MEET SPECIFIC JOB  
REQUIREMENTS EG BOILER  
OPERATIONS AND BOAS**



**GAIN A COMPETITIVE  
ADVANTAGE**



**ATTRACT THE BEST TALENT  
IN THE MARKETPLACE**

And if that hasn't persuaded you then consider this quote by the late American author and motivational speaker, Zig Ziglar >

“

*The only thing worse than  
training an employee and having  
them leave, is to not train them,  
and have them stay.*

”



# How to book

Book online at [spiraxsarco.com/global/en-GB/training](https://spiraxsarco.com/global/en-GB/training)

Call us on 01242 535211 for course information and availability.

Email us at [training@uk.spiraxsarco.com](mailto:training@uk.spiraxsarco.com)

Please note that prices quoted are per person. Your booking can only be confirmed once we have received your completed registration form and a copy of your purchase order.

## Where to stay

Our courses do not include accommodation but we will send through an up to date list of

places to stay during your course with your booking confirmation. This information is also available on our website.

We have negotiated special rates if you mention us. We monitor the feedback from other delegates to refine the providers.

## Catering

Courses running at our training centre include refreshments and lunch from our on-site Bistro.

## Cancellation policy

Please see our website for the latest full cancellation terms and conditions.



Please note we reserve the right to cancel any course date due to a shortage of delegates or unforeseen circumstances. We will provide as much notice as possible but in exceptional circumstances this may not always be possible.

**We recommend that any hotel and travel bookings are made on a flexible basis.**

### Pricing

Correct at time of publishing. Check website for current listings. Examination and assessment fees may be subject to change.

## Get in touch

We'd love to hear from you and we can be contacted as follows:

☎ 01242 535211

✉ [training@uk.spiraxsarco.com](mailto:training@uk.spiraxsarco.com)

🌐 [spiraxsarco.com/global/en-GB/training](https://spiraxsarco.com/global/en-GB/training)

in Spirax Sarco UK and Ireland

🐦 @Spirax\_Sarco\_UK

📺 SpiraxSarcoUK

Spirax Sarco | UK Steam Technology Centre  
| Charlton House | Cirencester Road |  
Cheltenham | Gloucestershire | GL53 8ER

# You're in good company >

Here are just a few of the organisations we've proudly supported in delivering their training and development goals over the years:

## Food & Beverage

BRITVIC > COCA-COLA > DUNHILLS (PONTEFRACT) >  
MARS > MARS PETCARE > MULLER UK & IRELAND >  
NESTLE > NESTLE PURINA PETCARE > PREMIER FOODS >  
SAMWORTH BROTHERS > TILDA > UNILEVER >  
WALKERS SNACK FOODS > WILLIAM GRANT & SONS

## Healthcare

ROYAL HOLLOWAY UNIVERSITY OF LONDON >  
THE HILLINGDON HOSPITAL NHS TRUST > NORWICH & NORFOLK >  
ST GEORGES HOSPITAL, LONDON > SWANSEA BAY UNIVERSITY >  
CARDIFF & VALE UNIVERSITY HEALTH BOARD >  
UNIVERSITY HOSPITALS DORSET >  
YORK & SCARBOROUGH TEACHING HOSPITALS

## Pharmaceutical

ASTRAZENECA > CATALENT >  
GLAXOSMITHKLINE > MEDICAL RESEARCH COUNCIL >  
PFIZER > SMITH & NEPHEW >  
RECKITT BENCKISER HEALTHCARE



## Utilities

DWR CYMRU > UNITED UTILITIES >  
SEVERN TRENT > ANGLIAN WATER >  
NORTHUMBRIAN WATER > VEOLIA

## Facilities Management

CBRE > EMCOR GROUP >  
EQUANS > SERCO > SODEXO

## General

ALLIANZ ENGINEERING > AWE > BAE SYSTEMS >  
D S SMITH > LUSH MANUFACTURING >  
KOHLER-MIRA > ROXEL UK ROCKET MOTORS >  
SMURFIT WESTROCK > TEXTILE SERVICES ASSOCIATION >  
UNIVERSITY OF LEEDS > UNIVERSITY OF MANCHESTER >  
UNIVERSITY OF EAST ANGLIA



PHOTO DISCLAIMER:  
Some photos may have  
been taken prior to  
social distancing.

**spirax**  
**/sarco**



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