



Our 2023 Training course portfolio

THINK STEAM TRAINING, THINK SPIRAX SARCO



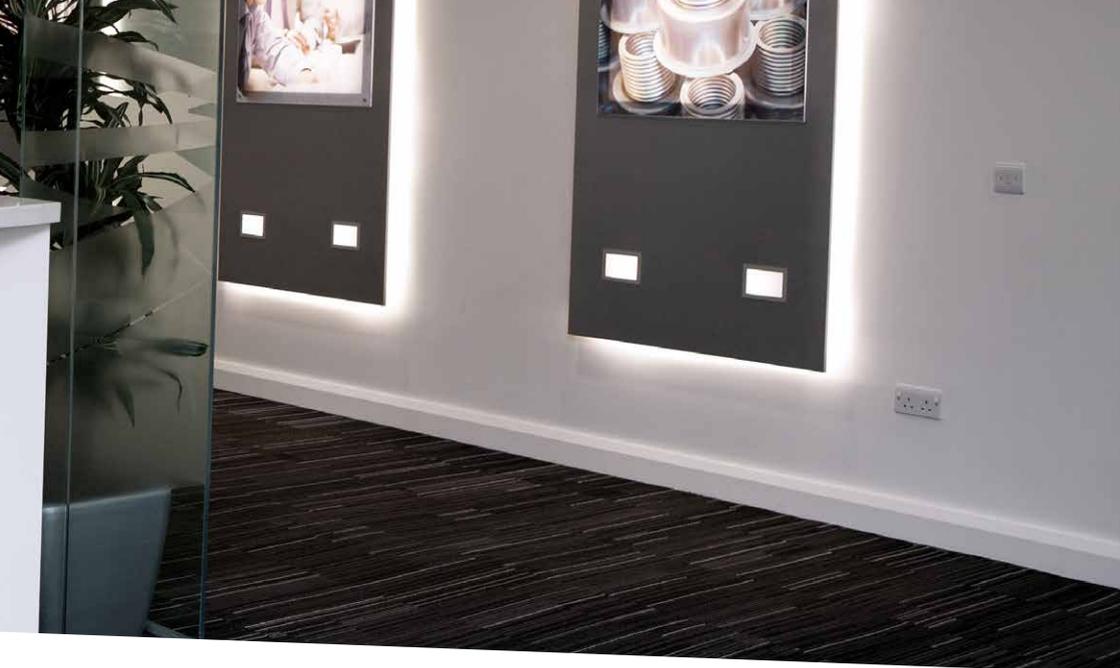
First for Steam Solutions

EXPERTISE | SOLUTIONS | SUSTAINABILITY





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Welcome

What a year! We have received an unprecedented level of requests for our training courses this year and it's been fantastic welcoming so many of you back to the training centre. For those who are still waiting to attend, we have had great feedback about the quality, content and delivery of our courses, so we are definitely worth waiting for!

The world is throwing up continual challenges at present and the business climate is looking increasingly difficult as we move into 2023. However, despite increases in energy bills and general cost of living challenges, this shouldn't

detract from ensuring that you continue to make the investment in your people. Ensuring your teams have the correct skills and understand best practice will pay dividends to your organisation as they spot opportunities to work using more sustainable practices and look to increase efficiency through best practice application.

We are also investing in the future, so those heading to our training centre will see some differences. Our Charlton House site is undergoing demolition and rebuild for a new and sustainable group headquarters. Reassuringly, the training centre is not affected although you will see changes when you enter the site. We will keep you updated on what is happening and it's a privileged position to see the changes develop in front of us.



Changes are also afoot in the training team, we have welcomed Jordan, our Training Centre Technician this year and as we continue to grow to support your business requirements, we are recruiting an additional trainer. Rest assured, our focus remains on ensuring individuals have an engaging and interactive experience, learning the theory but crucially understanding the application of the knowledge so they can help make real improvements on efficiency and sustainability when they return to the workplace.

We are also pleased to launch the City & Guilds accredited Steam Quality Testing course. This has been rolled out internally to our global colleagues, tested and is now ready for you all. Further information is located in the Specialist courses section.

We are passionate about supporting you and your business in your learning journey and look forward to welcoming many more of you soon.



Best wishes for 2023.

Sally O'Connell
**UK Steam Technology
Centre Manager**

A photograph of the exterior of a building. The wall is light-colored. The company name 'Spirax Sarco' is mounted on the wall in large, dark blue, 3D block letters. Below it, 'UK Steam Technology Centre' is mounted in smaller, silver, 3D block letters. A long, thin, white light fixture is mounted above the name. To the right, there is a silver vent pipe and a black louvered door.

Spirax
Sarco

UK Steam Technology Centre

**Our training
heritage and how
we support you >**



Customer training has a long history in Spirax Sarco with the first recorded technical education correspondence courses being provided during WWII, and the first in-house training taking place shortly afterwards.

Training is all about people, and it's our people who make us different. They have a passion and an unparalleled understanding of the application of steam across a wide range of industries, which enables us to ensure our courses are current and relevant to your industry needs.

Our approach to training ensures we focus on providing the skills and knowledge that can be applied back in the workplace, helping your business to:

- Increase steam safety
- Demonstrate competence and enhance skill levels
- Maximise the efficiency and sustainability of your steam systems
- Adhere to relevant legislation around training (e.g. PUWER, BG01)
- Review process and operational improvements



**Your course,
Your way,
Your choice >**



In 2021 we introduced Spirax Choices, offering you the flexibility to attend training in the way that suits you and your organisation.

Whilst providing practical face-to-face training is always the preference, 'Spirax Choices' offers the following options across our portfolio. We have highlighted next to each course which option is available.

Webinars and ongoing support - The Knowledge Hub

We offer a webinar programme to provide you and your teams with additional support in key areas. You can register for on demand webinars at <https://www.spiraxsarco.com/global/en-GB/knowledge-hub>



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



Our training centre facilities >

Being able to practice key skills in a safe and controlled environment helps individuals to apply their knowledge when they return to the workplace. That's why we provide our delegates with the opportunity for safe hands on experience in our fully operational boiler house, demonstration and practical areas so they really will be able to put the theory into practice.

Practical Area



**PRESSURE
REDUCING
VALVE RIGS**



**STEAM TRAP
TESTING RIG**



**STEAM TRAP
BUILDING
STATIONS**



**STEAM TRAP
DEMONSTRATION RIG**



PUMP RIGS

Boiler house



FULLY OPERATIONAL
BOILER HOUSE

Demonstration Area



DEMONSTRATION RIG

Training rooms



Fully equipped training facilities offering flexible seating to allow for social distancing



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 also provide some complimentary learning support materials?

We know that some of you may wish to brush up on your knowledge before attending a course, or perhaps you are undecided about committing to a full training course at this stage. Our comprehensive correspondence courses are available in the following subjects.

Automatic Controls – An Introduction

Providing a basic introduction to automatic controls, with specific emphasis on temperature control.

Hot Water Heating

Focusing on an important part of the building services package - the hot water heating system. This course broadly covers some aspects of its design and function.

Steam Utilisation

A comprehensive course covering the properties of steam, making the best use of steam and steam plants and understanding how to become more efficient.

Each course is stand alone but they do complement the scheduled courses on offer.

If you would like to register for one of these courses then visit our website at spiraxsarco.com/global/en-GB/training and complete the registration form.



Meet the trainers who inspire >

At Spirax Sarco you will learn from experienced trainers and practitioners. You will receive first hand and up to date knowledge directly from those in the know.

We like to introduce opportunities to complete practical elements to aid the learning and our trainers are all committed to your development. So you receive the correct training for your job role whilst feeling confident you are introduced to 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

"There is a collective mind-set at the training centre, everyone who comes through the doors no matter what level of experience will leave with a much clearer understanding and the confidence to tackle the issues that they find back at work. I find it incredibly rewarding giving someone the knowledge and watching those lightbulb moments where something just clicks and that's it they're off, they understand and are now working through those challenges. I also love being shown something new from your sites and discovering where the skills you gained from being with us have taken you and how you use them. "

JORDAN TURNBULL >
UK Steam Technology Centre Technician



First class support >

"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 >

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

Training is part of an individual's learning journey and we understand how choosing the right course at the right time ensures they gain the maximum benefit personally but also for your business when they return.

Not sure which course, ask us!

We love having conversations about which course is the most suitable for your requirements. We are happy to make recommendations based on our experience with other delegates and our knowledge on legislative requirements and course content. We know that steam may not be your specialism, but it is ours, so let us support you in making the right decision for you and your business needs.

Additional Learning Support

Some of our courses have examination requirements and we are able to provide additional learning support facilities for those who may have a learning difficulty such as dyslexia. We will discuss this on an individual basis to find the most suitable option for each individual.

Boiler Operation Accreditation Scheme (BOAS) support

We take our role as an Approved Training Provider for BOAS very seriously. We want to ensure that the process to certification is as smooth as possible so we will work with you ahead of your attendance to make sure you are eligible and that all the assessment requirements are in place. Our responsibilities don't stop when you have attended the training, we are with you until you receive your certification.

In addition, we will be there in the intervening 5 year period to support and remind you ahead of the renewal date so you have continuity of cover.

Availability / Quotes / Booking Process

Details on our booking process is detailed further on page 56.

Our latest course dates are always updated on the website. If you want to check availability then let us know. We monitor uptake throughout the year and will add in further dates as necessary to match demand so you can be assured that the right course is 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. Our Steam Plant Maintenance and Steam Boiler Plant Fundamentals courses are accredited with them to provide you with the reassurance it is of the highest quality. We are continually working on the formal accreditation of a number of our other 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 routes >

Learning is a journey and training is one element of that process. That's why we have developed our courses to allow you and your team to build your skills and knowledge over a range of topics and period of time, helping you to feel confident to apply the skills and knowledge acquired back in the workplace.

ARE YOU?



**MAINTAINING
STEAM SYSTEMS**



**OPERATING
STEAM SYSTEMS**



**MANAGING
STEAM SYSTEMS**

▶ YOU NEED...



Introduction to Steam and Condensate Systems (B1)



3 MONTHS EXPERIENCE



Steam Plant Maintenance (M2)



Safety Valve Accreditation (M3)



Introduction to Steam and Condensate Systems (B1)



3 MONTHS EXPERIENCE



Steam Boiler Plant Fundamentals (D6S)



6 MONTHS+ EXPERIENCE



Boiler Operation Accreditation Scheme (BOAS) & Renewal* (D6A & D6AR)



Boiler House Water Treatment (W1)



Introduction to Steam and Condensate Systems (B1)



Steam Boiler Plant Fundamentals (D6S)



Boiler Operation Accreditation Scheme (BOAS) & Renewal* (D6A & D6AR)



Boiler House Water Treatment (W1)



Boiler Guidance, Regulations and Risk Assessment (RA1)

3 MONTHS EXPERIENCE

6 MONTHS+ EXPERIENCE

*five yearly

NEW TO STEAM COURSES

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
Steam Boiler Operation Fundamentals

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

BOILER HOUSE OPERATOR

APPRENTICE

MAINTENANCE TECHNICIAN

SUPPORT FUNCTIONS



**SERVICE
ENGINEER**



ENGINEER

RELIABILITY ENGINEER

SYSTEMS DESIGN ENGINEER

PROJECT ENGINEER

BOILER INSPECTOR

MAINTENANCE ENGINEER

FACILITIES TECHNICIAN

OPERATION MANAGER

SITE MANAGER



Introduction to Steam and Condensate Systems

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

Duration: 1 day

Cost: £420 +vat

Course code: B1

23rd January
20th February
28th March
24th April
03rd May
26th June
11th July
14th August
17th October
30th October
27th November



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.

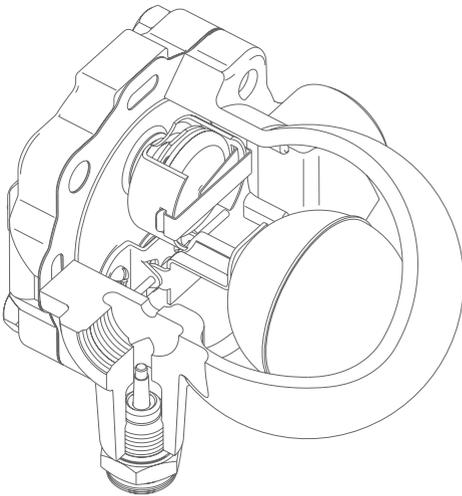
What is it about?

This course provides a broad understanding of the purpose and safe operational requirements of steam and condensate systems. Understanding why, where and how steam is used and the efficiencies it offers.

Course objectives

By the end of the course, delegates 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)

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



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

Duration: 2 days (inc assessment) /

Cost: £795 +vat

Course code: D6

23rd - 24th January
25th - 26th January
21st - 22nd February
12th - 13th April
24th - 25th April
03rd - 4th May
10th - 11th May
31st May - 1st June
27th - 28th June
24th - 25th July
26th - 27th July
15th - 16th August
4th - 5th September
31st October - 1st November
28th - 29th November
18th - 19th December

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.

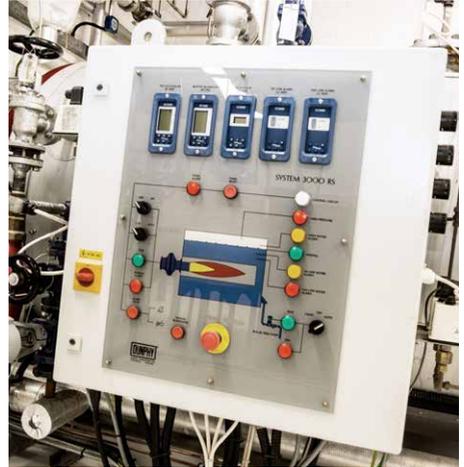
City & Guilds Accredited Programme



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

“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

BOILER HOUSE COURSES

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

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

Find out more at spiraxsarco.com/global/en-GB/training

OPERATIONS MANAGER

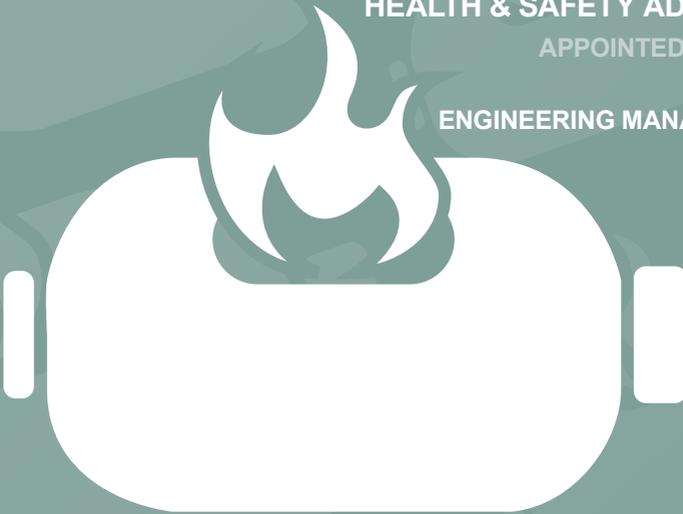
BOILER HOUSE OPERATOR

BOILER HOUSE MANAGER

HEALTH & SAFETY ADVISER

APPOINTED PERSON

ENGINEERING MANAGER



APPOINTED ENGINEER

COMPETENT PERSON

ESTATES MANAGER

BOILER INSPECTOR

COMPLIANCE MANAGER

MAINTENANCE ENGINEER

FACILITIES TECHNICIAN

OPERATION MANAGER

ENGINEER SHIFT TECHNICIAN

MECHANICAL / ELECTRICAL ENGINEER

SITE MANAGER

ENGINEER

MANUFACTURING MANAGER

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



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

Duration: 2 days (inc assessment) /

Cost: £795 +vat

Course code: D6

23rd - 24th January
25th - 26th January
21st - 22nd February
12th - 13th April
24th - 25th April
03rd - 4th May
10th - 11th May
31st May - 1st June
27th - 28th June
24th - 25th July
26th - 27th July
15th - 16th August
04th - 5th September
31st October - 1st November
28th - 29th November
18th - 19th December

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.

City & Guilds Accredited Programme



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

“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



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

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

Duration: 3-4 days (plus assessment) depending on delivery option

Cost: £1625 + Assessment costs⁶ £485 (Operator) / £535 (Manager) / Remote - £325/£375

Course code: D6A / D6AR



- 30th January - 2nd February
- 13th - 16th February
- 27th February - 2nd March
- 13th - 15th March (remote)
- 03rd - 5th April (remote)
- 17th - 20th April
- 24th - 27th April
- 22nd - 25th May
- 05th - 8th June
- 19th - 22nd June
- 03rd - 6th July
- 17th - 20th July
- 31st July - 3rd August
- 11th - 14th September
- 25th - 28th September
- 09th - 12th October
- 23rd - 26th October
- 06th - 9th November
- 20th - 23rd November
- 04th - 7th December

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 accreditation for industrial boiler operators and boiler plant managers. The BG01 guidelines suggest that all competent persons and owners/managers should be trained to the BOAS standard.

Successful candidates may use the designatory letters “Cert IBO” (Certified Industrial Boiler Operator) or “Dip BOM” (Diploma in Boiler Plant Operation Management).

Delegates taking the Cert IBO and Dip BOM will achieve Dual Award status.

BOAS has been 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.

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 necessary².

This course only covers cat 2 (shell boilers).

Course objectives

The BOAS syllabus⁵ 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)

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 examinations¹

3. Interview with an assessor to establish the individual's knowledge and understanding, ability skills and experience⁴.

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 30

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.

¹ All candidates are required to sit examination papers regardless of award.

² A renewal course is necessary at five yearly intervals

³ Exact examination papers undertaken will vary depending on award.

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

⁵ Syllabus may be subject to change

⁶ Set by Combustion Engineering Association and subject to change

A photograph of two men in a boiler house. One man is pointing at a large blue boiler, while the other stands next to him with his arms crossed. The background shows industrial equipment, pipes, and a ladder.

Boiler house guidance, regulations and risk assessment for managers

Spirax Choices options: Face-to-Face

Duration: 1 day

Cost: £450 +vat

Course code: RA1

26th January

29th March

04th May

10th July

02nd November

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.”

Boiler House Water Treatment

Spirax Choices options: Face-to-Face
/ onsite

Duration: 1 day

Cost: £450 +vat

Course code: W1

20th February

21st March

13th June

19th September

14th November



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.”

MAINTENANCE COURSES

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)

[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

Cost: £1530 +vat

Course code: M2

16th-19th January	7th - 10th August
30th January -	21st - 24th August
2nd February	11th - 14th September
13th - 16th February	25th - 28th September
27th February -	9th- 12th October
2nd March	16th - 19th October
27th - 30th March	23rd - 26th October
3rd - 6th April	6th - 9th November
17th - 20th April	20th - 23rd November
22nd - 25th May	4th - 7th December
5th - 8th June	11th - 14th December
19th - 22nd June	
26th - 29th June	
3rd - 6th July	
17th - 20th July	

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.

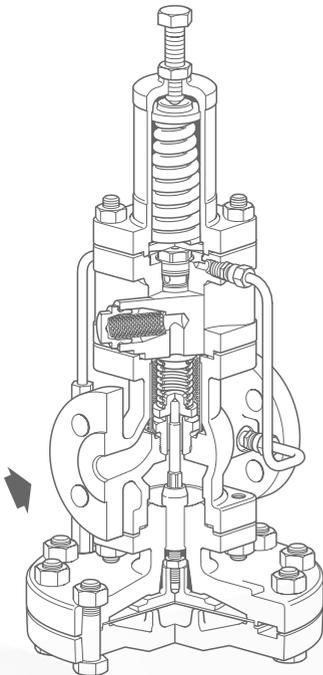
City & Guilds Accredited Programme



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 and other ancillary equipment
- » Have an understanding of basic elements in the boiler house



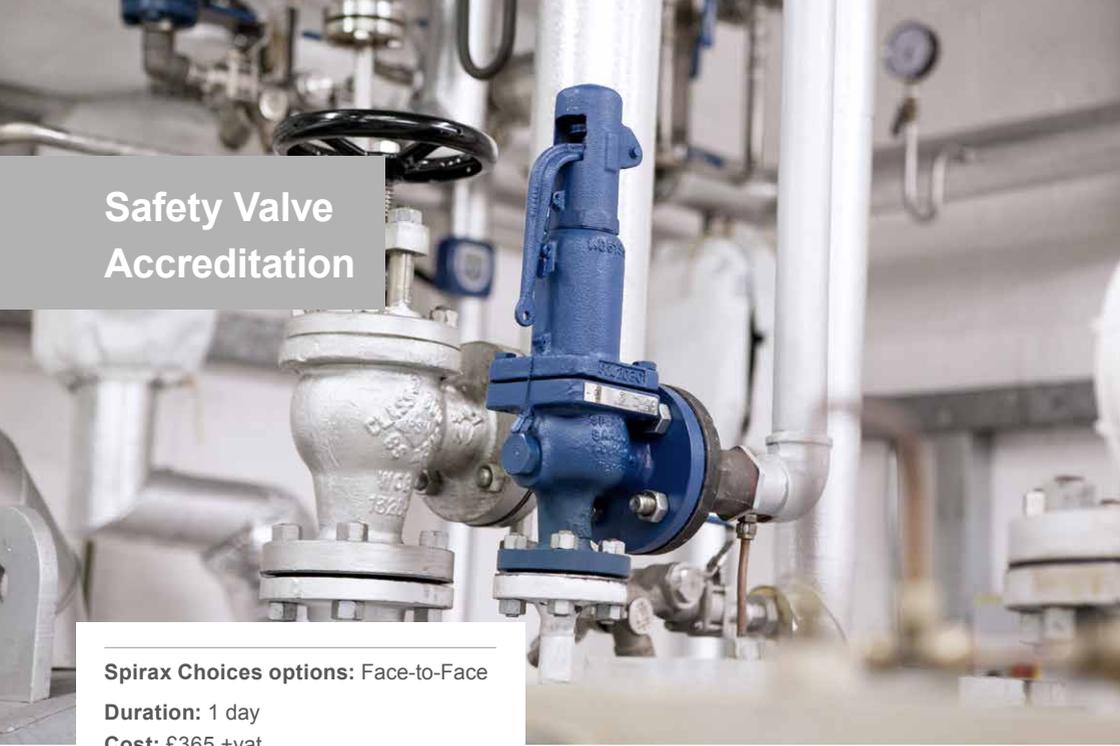
What our delegates said

“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.”



Safety Valve Accreditation

Spirax Choices options: Face-to-Face

Duration: 1 day

Cost: £365 +vat

Course code: M3

3rd February

31st March

21st April

9th June

21st July

13th October

24th November

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.

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.

The course also includes a visit to the safety valve line at our manufacturing site.
(subject to safety restrictions)



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.”

SPECIALIST COURSES

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

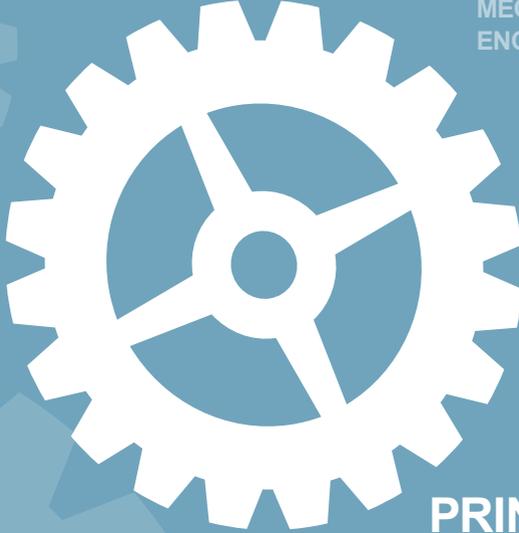
Design of Steam and Condensate Systems
Steam Quality Testing

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

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



Steam Quality Testing

Spirax Choices options:

Face-to-Face / Remote

Duration: 2 days

Cost: £950 +vat

Course code: SQT

10th - 11th May

6th - 7th September

27th - 28th November

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.

City & Guilds | Accredited Programme

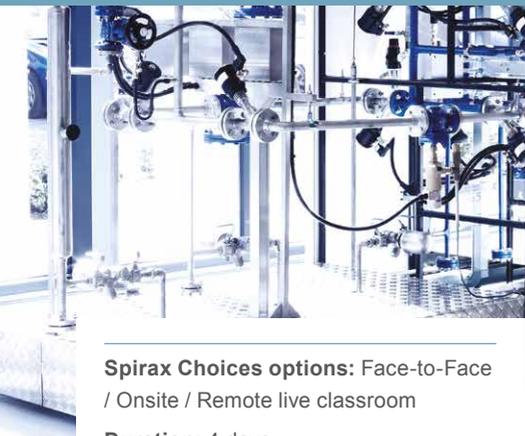
Course objectives

- » 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

Design of Steam and Condensate Systems



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

Duration: 4 days

Cost: £1550+vat, includes your personal copy of the Steam and Condensate Loop book

Course code: D1

6th - 9th February

20th - 23rd March

12th - 15th June

18th - 21st September

2nd - 5th October

13th - 16th November



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.”



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. Here are some examples of courses we have designed before:

- Practical Steam Metering
- Safe Isolation of Plant
- Clean Steam Systems

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.

We will shortly be launching an Appointed Persons (Mechanical) course. Please email us training@uk.spiraxsarco.com to add your name to the waiting list.





Building the case for investing in training >

Training should always be considered an investment but sometimes requesting the funds for your plans is not always straight forward. So to help you secure your budget, here are the key reasons for investing in training. You can find more detailed information on spiraxsarco.com/global/en-GB/training



**IMPROVES STAFF
RETENTION AND
MOTIVATION**



**PROVIDES THE
KNOWLEDGE FOR YOU
AND YOUR TEAM TO WORK
SAFELY AND SUSTAINABLY**



**INCREASES
PRODUCTIVITY**



**ALLOWS YOU AND THE
TEAM TO KEEP UP TO
DATE WITH LEGISLATION
AND BEST PRACTICE**



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



**PROMOTES HIGHER
LEVELS OF CUSTOMER
SATISFACTION**



**SPECIFIC JOB
REQUIREMENT E.G. BOILER
OPERATORS AND BOAS**



**INCREASES
YOUR COMPETITIVE
ADVANTAGE**



**YOU CAN 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

Call us on 01242 535211 for course information and availability.

Email us at 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. All lunches will be pre-ordered on the first day of your course.

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 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

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

 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 is a small selection of the organisations that we have supported to deliver their training requirements:

Acetate Products

Allianz Engineering

Allied Bakeries

AstraZeneca

AWE

Britvic

CBRE

Coca-Cola

Corus Strip Products

Del Monte Foods

Ford Motor Company, Dagenham

GlaxoSmithKline

Imperial Tobacco

Kohler Mira

Mars

Masterfoods

Medical Research Council

Nestlé

Northumbrian Water

Palace of Westminster

Pfizer

Rank Hovis

Rolls-Royce Power Engineering

Roxel UK Rocket Motors

Royal Holloway University of London

Royal Sun Alliance

Severn Trent Water

Smith & Nephew

St George's Hospital, London

St Joseph's Hospital, Newport

The Wrigley Company

Unilever Bestfoods

Unilever UK Foods

United Utilities

Wyeth Labs





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

spirax
/sarco

UK Steam Technology Centre
Spirax-Sarco Limited, Charlton House,
Cheltenham, Gloucestershire, GL53 8ER, UK
T +44 (0)1242 535211
F +44 (0)1242 535578
E training@uk.spiraxsarco.com
sxscom.uk/training

UK-STC23-UK-ISS1

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