

STEAM BOILERHOUSE OPERATIONS (ADVANCED)

Course Summary

- Advanced/further course to support operator competency
- Pre-course evaluation
- Open book assessment
- Onsite Competency assessment
- Coaching and mentoring throughout the course

Steam Boilerhouse Operations - Advanced is a course focusing on developing operators (and managers) knowledge and competency in the operation of assets supporting steam generation. Unlike some traditional courses, where the emphasis is on examination and interview, our course is developed to support learning and development in a method suited to work environment. The open book assessment allows candidates the ability to further source information (as they would in the field) and not rely on knowledge retention that can often be difficult to harvest in stressful conditions.

The course is delivered by experienced process engineering professionals that understand people as well as processes. We adapt our style to get the most out of your candidates in an engaging environment, without the unnecessary stress of information retention, examination and interview.

The final post course competency evaluation is developed to assess whether the candidate is safely operating the boiler and address where improvements can be made.

Further to the course, the boilerhouse manager should support operators in improving the gaps in competency/compliance.

This Course is also suitable for boilerhouse managers (responsible persons), with the post course evaluation replaced with a boilerhouse management/documentation assessment.

Course overview

This course is aimed at developing skills and assessing competency levels of experienced steam boiler operators. The content of this course is specifically targeted at fire tube boilers either vertical or horizontal arrangement.

Candidates undertaking this course should have some former fundamentals training (such as Steam Essentials and Boilerhouse Operations) or relevant experience in boiler operations.

The delivery of this course is split over 4 days, with 3 days for delivery of the content and open book assessment followed by each candidate undertaking an observed practical of daily/weekly checks in their own boilerhouse to assess competency.

Prior to the course all candidates are required to undertake a pre-course evaluation. This takes place in the form of candidates completing a form to establish what they already know and understand with regard to their existing boilerhouse.

Course Structure:

- Pre course evaluation (completed by Candidate)
- 3 days content delivery
- 1 x 90 minute open book assessment
- 1 x plant competency assessment
- Post course evaluation (completed by the Trainer).

Note: Due to time required for Assessment the number of assessments is limited to 4 per day, therefore overall course duration would need to be adjusted to reflect candidate numbers. Post course assessment does not need to be undertaken immediately following the course, this can be arranged for a later date to allow learning to be put in place or to capture larger candidate numbers.

Certification

On satisfactory completion of the open book assessment and plant competency assessment, candidates will be issued a certificate and evaluation (valid for 4 years). After such time refresher training should be undertaken.

Course Syllabus

- The Boilerhouse
- Boilerhouse safety
- Water
 - o Primary Water Treatment
 - o Secondary Water Treatment
- Hotwell
- Boiler and Combustion (burner)
- Blowdown
- Boilerhouse Documentation
- Environment
- Efficiency
- Operations
- Legal responsibilities

Open book Assessment

The open book assessment will be taken under exam conditions with no conferring between candidates. However, candidates are free to use the course information and any notes they have compiled during the course. The paper consists of multiple choice and written answer type questions to be completed within 90 minutes.

The Paper will be graded A – E based on the results. Below 50% will be graded as U.

Post course Evaluation/competency assessment

This will take place on the candidates own boiler where they will be asked to demonstrate daily and weekly checks. The candidate will be assessed on Knowledge relating to how and why they are undertaking the task. Importantly, they will be assessed on whether the task is undertaken in Safe manner to protect themselves and the assets following Industrial best practice/SOPs.

On completion of the assessment the trainer will compile an assessment on competency identifying where further improvement may be required based on the candidates open book assessment and practical performance. This can used to support further training and development needs for the candidate or improvements within the asset inventory.

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Other courses available

- Steam Essentials and Boilerhouse Operations (SEBO)
- Boiler water Treatment
- Permit to Work and Safe Isolation of plant (HSG250 and HSG253)
- Boilerhouse risk management workshop.

For more information or a competitive quotation please email Info@tec-sol.co.uk

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