

ICTQual AB



Qualification Specification

ICTQual AB Level 1 Award in Pressure Vessels and Boiler Safety



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ICTQual AB's

Level 1 Award in Pressure Vessels and Boiler Safety

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Qualification Specification about

ICTQual AB Level 1 Award in Pressure Vessels and Boiler Safety

About ICTQual AB's

ICTQual AB is a distinguished awarding body based in the United Kingdom, dedicated to fostering excellence in education, training, and skills development. Committed to global standards, ICTQual AB's provides internationally recognized qualifications that empower individuals and organizations to thrive in an increasingly competitive world. Their offerings span diverse industries, including technical fields, health and safety, management, and more, ensuring relevance and adaptability to modern workforce needs.

ICTQual AB's delivers high-quality educational solutions through a network of Approved Training Centres worldwide. Their robust standards and innovative teaching methodologies equip learners with practical knowledge and skills for personal and professional growth. With a mission to inspire lifelong learning and drive positive change, ICTQual AB's continuously evolves its programs to stay ahead of industry trends and technological advancements.

Course Overview

In industrial environments, pressure vessels and boilers are essential systems used for steam production, heating, and the containment of fluids under varying pressure levels. These systems are widely utilised in sectors such as manufacturing, chemical processing, power generation, and petroleum industries. While critical to operations, they present significant safety risks if not managed in compliance with industry standards and regulatory requirements. Pressure vessels are designed to hold gases or liquids at pressures different from ambient levels, and boilers generate steam or hot water by heating fluids. Their safe operation demands regular monitoring, inspections, and maintenance to prevent failures, accidents, and hazards that could endanger personnel and damage assets. The ICTQual AB Level 1 Award in Pressure Vessels and Boiler Safety provides learners with fundamental knowledge of safety practices, procedures, and compliance measures related to these systems. This globally recognised qualification serves as an entry-level certification for individuals aiming to understand and contribute to industrial safety, supporting organisations in building safer, more efficient, and compliant workplaces.

Qualification Objectives

1. The qualification enables learners to:
2. Understand the basic components and functions of pressure vessels and boiler systems.
3. Recognise common hazards and risks associated with pressure systems.
4. Gain awareness of essential safety standards, regulations, and compliance requirements.
5. Learn the importance of inspections, monitoring, and routine maintenance.
6. Support safe operational practices through knowledge of safety procedures and emergency response fundamentals.
7. Develop a safety-conscious mindset to contribute to workplace responsibility and vigilance.

Qualification Aims

The ICTQual AB Level 1 Award in Pressure Vessels and Boiler Safety aims to:

- Provide foundational understanding of pressure vessel and boiler safety systems.
- Introduce learners to industrial safety protocols and risk prevention techniques.
- Promote awareness of legal and technical compliance in pressure system operations.
- Equip individuals with essential safety knowledge to assist in inspections, maintenance support, and safe operations.
- Foster a culture of workplace safety and accountability in industrial operations.

Targeted Audience

This qualification is ideal for:

- Individuals new to industrial safety and engineering environments.
- Entry-level workers involved in plant operations, maintenance, and safety assistance.
- Personnel working near or around pressure vessels and boilers who need basic safety awareness.
- Apprentices and trainees in manufacturing, chemical, petroleum, and power industries.
- Organisations seeking to train staff on essential safety practices and compliance basics.
- Anyone interested in gaining introductory knowledge of pressure system hazards and safety procedures.

Certification Framework

Qualification title	ICTQual AB Level 1 Award in Pressure Vessels and Boiler Safety
Course ID	HSE0001
Total Qualification Time	10
Guided Learning Hours	5
Grading Type	Pass / Fail
Competency Evaluation	Coursework / Assignments / Verifiable Experience
Assessment	The assessment and verification process for ICTQual AB's qualifications involves two key stages: Internal Assessment and Verification: ✓ Conducted by the staff at the Approved Training Centre (ATC) to ensure learners meet the required standards through continuous assessments. ✓ Internal Quality Assurance (IQA) is carried out by the centre's IQA staff to validate the assessment process. External Quality Assurance: ✓ Managed by ICTQual AB's verifiers, who periodically review the centre's assessment and IQA processes. Verifies that assessments are conducted to the required standards and ensures consistency across centres

Entry Requirements

To enrol in ICTQual AB Level 1 Award in Pressure Vessels and Boiler Safety, learner must meet the following entry requirements:

- ✓ **Age Requirement:** Learners must be at least 16 years old at the time of registration.
- ✓ **Educational Background:** No formal qualifications are required. Learners with basic secondary education or equivalent are eligible to enrol.
- ✓ **Professional Experience:** No prior work experience is necessary. However, learners with experience in industrial, manufacturing, or maintenance environments may find it easier to relate to the course content.
- ✓ **English Proficiency:** Learners should have basic reading, writing, and communication skills in English to engage effectively with the course materials. A minimum of CEFR Level A2 (or equivalent) is recommended.
- ✓ **Additional Requirement:** Learners are expected to have an interest in industrial safety, operational efficiency, and workplace compliance. A commitment to applying safety principles in practical industrial or workplace settings is essential.

Qualification Structure

This qualification comprises 8 mandatory units. Candidates must successfully complete all mandatory units to achieve the qualification.

Mandatory Units	
Unit Ref#	Unit Title
HSE0001-01	Introduction to Pressure Vessels and Boilers
HSE0001-02	Regulatory Framework and Standards
HSE0001-03	Risk Assessment and Hazard Identification
HSE0001-04	Safety Procedures and Practices
HSE0001-05	Emergency Response and Incident Management
HSE0001-06	Inspection and Testing
HSE0001-07	Documentation and Record Keeping
HSE0001-08	Safety Culture and Continuous Improvement

Centre Requirements

To ensure quality training delivery, centres must adhere to the following standards:

1. Centre Approval

- ✓ Centres must be formally approved by ICTQual AB's before delivering this qualification.
- ✓ Approval involves a review of facilities, policies, and staff qualifications.

2. Qualified Staff

- ✓ **Tutors:** Must hold a Level 3 or higher qualification in a relevant field such as Mechanical, Process, Chemical, Industrial, Marine/Boiler Engineering, Power/Plant Systems, Industrial Maintenance, or Occupational Health & Safety (HSE/OHS), with practical knowledge or industry exposure to pressure vessels or boiler safety operations and an understanding of basic inspection, hazard identification, and safety compliance practices.
- ✓ **Assessors:** Must hold a recognized assessor qualification (e.g., CAVA, AVRA) or equivalent)
- ✓ **Internal Quality Assurers (IQAs):** Must hold a recognized IQA qualification (e.g. Level 4 Award in the IQA and Level 4 Certificate in Leading the IQA) and experience to oversee assessment standards.

3. Learning Facilities

Centre must offer:

- ✓ Private study areas and internet-enabled workspaces (for blended or physical delivery)
- ✓ Academic and pastoral support for learners
- ✓ Administrative support must be available to manage enrolment, tracking, and learner queries efficiently

4. Health and Safety Compliance

- ✓ All training facilities must comply with health and safety regulations.
- ✓ Centres must conduct regular risk assessments for practical activities.

5. Learning Resources

- ✓ **Course Materials:** Approved textbooks, study guides, and digital content must align with the qualification standards.
- ✓ **Assessment Tools:** Templates and guidelines must be provided to ensure standardized evaluation processes.
- ✓ **E-Learning Support:** Centres offering online or blended learning must implement an effective Learning Management System (LMS).

6. Assessment and Quality Assurance

- ✓ Centres must ensure assessments meet ICTQual AB's competency standards.
- ✓ Internal quality assurance (IQA) must be conducted to maintain consistency.
- ✓ External verifiers from ICTQual AB's will review assessment and training practices.

7. Learning Support

- ✓ **Qualification Guidance:** Support for coursework and assignments.
- ✓ **Career Pathway Assistance:** Information on progression opportunities in sustainability and energy sectors.
- ✓ **Accessibility Support:** Accommodations for learners with disabilities or language barriers.

8. Policies and Compliance

Centres must uphold the following policies in accordance with ICTQual AB's standards:

- ✓ Equality, Diversity, and Inclusion Policy.
- ✓ Health and Safety Policy.
- ✓ Safeguarding and Learner Protection Policy.
- ✓ Complaints and Appeals Procedure.
- ✓ Data Protection and Confidentiality Policy.

9. Reporting Requirements

- Centres must provide ICTQual AB's with regular reports on learner registrations, progress, and certification outcomes.
- Assessment records must be maintained for external auditing and quality assurance purposes.

Support for Candidates

Centres should ensure that materials developed to support candidates:

- ✓ Facilitate tracking of achievements as candidate's progress through the learning outcomes and assessment criteria.
- ✓ Include information on how and where ICTQual AB's policies and procedures can be accessed.
- ✓ Provide mechanisms for Internal and External Quality Assurance staff to verify and authenticate evidence effectively.

This approach ensures transparency, supports candidates' learning journeys, and upholds quality assurance standards.

Assessment

This qualification is competence-based, requiring candidates to demonstrate proficiency as defined in the qualification units. The assessment evaluates the candidate's skills, knowledge, and understanding against the set standards. Key details include:

1. Assessment Process:

- ✓ Must be conducted by an experienced and qualified assessor.
- ✓ Candidates compile a portfolio of evidence that satisfies all learning outcomes and assessment criteria for each unit.

2. Types of Evidence:

- ✓ Observation reports by the assessor.
- ✓ Assignments, projects, or reports.
- ✓ Professional discussions.
- ✓ Witness testimonies.
- ✓ Candidate-produced work.
- ✓ Worksheets.
- ✓ Records of oral and written questioning.
- ✓ Recognition of Prior Learning (RPL).

3. Learning Outcomes and Assessment Criteria:

- ✓ **Learning Outcomes:** Define what candidates should know, understand, or accomplish upon completing the unit.
- ✓ **Assessment Criteria:** Detail the standards candidates must meet to demonstrate that the learning outcomes have been achieved.

This framework ensures rigorous and consistent evaluation of candidates' competence in line with the qualification's objectives.

Unit Descriptors

HSE0001-01- Introduction to Pressure Vessels and Boilers

This unit provides foundational knowledge of pressure vessels and boilers, their purpose, key components, operating principles, and industrial applications. Learners will understand pressure differences, steam generation, safety devices, and basic monitoring. Emphasis is placed on recognising system limitations, safe working environments, and responsible behaviour when operating near or supporting pressure systems.

Learning Outcome:

Assessment Criteria:

- | | |
|---|--|
| 1. Understand the basic principles and functions of pressure vessels and boilers. | 1.1 State the main purpose of a boiler in a simple workplace.
1.2 Identify the basic role of a pressure vessel in storing gases or liquids.
1.3 List two common substances used in these systems (e.g., water, steam, or air).
1.4 Point out where heat is applied in a basic boiler diagram. |
| 2. Identify different types of pressure vessels and boilers used in industry. | 2.1 Name two common types of boilers used in factories.
2.2 List two different types of pressure vessels used for storage.
2.3 Label a picture of a fire-tube boiler correctly.
2.4 Label a picture of a water-tube boiler correctly. |
| 3. Recognise the role of these systems in industrial processes and operational efficiency. | 3.1 State why steam or pressure is needed for factory machines to work.
3.2 Give one example of how a boiler helps a business finish its work.
3.3 Identify a task that requires a steady flow of pressure.
3.4 State how a clean vessel helps a machine run without using too much fuel. |
| 4. Explain the potential hazards associated with pressure vessels and boilers. | 4.1 List two dangers of high-temperature steam.
4.2 State what might happen if a pressure vessel gets too hot.
4.3 Identify the risk of a leak in a pressurized pipe.
4.4 Tell what happens to a tank if the pressure becomes too high. |

5. Develop awareness of safety responsibilities for personnel working with these systems.
- 5.1 List one safety task a worker must do every day.
 - 5.2 Identify the person to tell if a safety guard is missing.
 - 5.3 State why workers must follow the rules in the safety handbook.
 - 5.4 Tell why it is important to stay in your assigned work area.

HSE0001-02- Regulatory Framework and Standards

This unit introduces essential laws, compliance obligations, and global and local safety standards governing pressure vessels and boilers. Learners will gain awareness of safe operating limits, certification requirements, approved codes, and regulatory bodies. Focus is placed on understanding legal responsibilities, safety controls, and the importance of meeting technical and operational compliance to prevent accidents.

Learning Outcome:

Assessment Criteria:

- | | |
|--|--|
| 1. Understand the key legal and regulatory requirements governing pressure vessels and boilers. | 1.1 Name one major safety law that applies to pressure systems.
1.2 State why the law requires boilers to be checked by experts.
1.3 Identify who is responsible for keeping the workplace safe by law.
1.4 List one basic right a worker has regarding safety information. |
| 2. Identify relevant standards, codes, and guidelines that ensure operational safety. | 2.1 Find the manufacturer's safety plate on a piece of equipment.
2.2 List one place where safety guidelines are kept in the workshop.
2.3 Identify a common safety mark (like a CE or UKCA mark) on a vessel.
2.4 State which manual should be read before using a new boiler. |
| 3. Recognise the role of compliance in preventing accidents and maintaining safe operations. | 3.1 State how following rules keeps people from getting hurt.
3.2 Give an example of a rule that stops a machine from blowing up.
3.3 Identify a check that must be finished before a machine is turned on.
3.4 Tell why skipping a safety step is against the rules. |
| 4. Develop the ability to align workplace practices with regulatory expectations. | 4.1 Use the correct tool for a routine task as shown in a safety guide.
4.2 Follow a simple set of steps to check a safety valve.
4.3 Carry out a task exactly how the supervisor showed you.
4.4 Use the right container for a pressurized liquid as per the rules. |

5. Understand the consequences of non-compliance and the importance of proactive safety management.

- 5.1 State one bad thing that happens to a worker who breaks safety rules.
- 5.2 Tell how a business can be punished for not following safety laws.
- 5.3 State why a machine might be locked away if it fails an inspection.
- 5.4 Identify a risk to the public if safety rules are ignored.

HSE0001-03- Risk Assessment and Hazard Identification

This unit enables learners to identify common hazards linked to pressure and steam systems, including over-pressure, leaks, temperature risks, corrosion, and mechanical failure. Learners will understand basic risk assessment principles, severity and likelihood, unsafe conditions, and the need for hazard reporting. The unit emphasises proactive observation, safety awareness, and workplace risk communication.

Learning Outcome:

Assessment Criteria:

- | | |
|--|---|
| 1. Learn how to identify potential hazards related to pressure vessels and boilers. | <ul style="list-style-type: none">1.1 Point out a hot pipe that needs a safety cover.1.2 Identify a wet floor near a boiler that could cause a slip.1.3 Spot a loose wire on a boiler control panel.1.4 List a hazard caused by a blocked emergency exit. |
| 2. Understand risk assessment methodologies and their application in industrial settings. | <ul style="list-style-type: none">2.1 State what "likelihood" means when talking about an accident.2.2 Identify a "High Risk" area using a color-coded safety map.2.3 Tell the difference between a hazard (the danger) and a risk (the chance of hurt). |
| 3. Develop skills to evaluate risks and prioritise safety interventions. | <ul style="list-style-type: none">3.1 Use a simple 1 to 5 scale to show how dangerous a hazard is.3.2 State what "likelihood" means when talking about an accident.3.3 Identify a "High Risk" area using a color-coded safety map.3.4 Tell the difference between a hazard (the danger) and a risk (the chance of hurt). |
| 4. Recognise common operational risks, including overpressure, leaks, and mechanical failure. | <ul style="list-style-type: none">4.1 Identify a gauge that shows pressure is too high.4.2 List a risk caused by a boiler running out of water.4.3 Identify the sound of a steam leak.4.4 State why a shaking pipe is an operational risk. |

5. Apply hazard identification techniques to reduce the likelihood of incidents.

- 5.1 Walk around a boiler and find three things that could cause an accident.
- 5.2 Fill in a basic "Hazard Spotting" sheet.
- 5.3 Use a checklist to check if safety signs are easy to see.
- 5.4 Tell a teammate about a hazard you found during your shift.

HSE0001-04- Safety Procedures and Practices

This unit covers fundamental safety practices for pressure vessels and boiler operations, including safe start-up and shutdown awareness, control devices, PPE, permit-to-work basics, lockout/tagout understanding, pressure relief mechanisms, and safe handling of steam systems. Learners will be guided on following standard safety procedures, supporting safe operations, and maintaining personal and team safety.

Learning Outcome:

Assessment Criteria:

1. Understand the core safety procedures for operating and maintaining pressure vessels and boilers.

- 1.1 State the first thing to do before entering a boiler room.
- 1.2 List two "Do Not" rules for working near pressure vessels.
- 1.3 Identify where the safety manual is kept for quick use.
- 1.4 Tell why you must always work with a partner in high-risk areas.

2. Learn safe start-up, shutdown, and operational practices.

- 2.1 Follow a 4-step list to start a boiler safely.
- 2.2 Follow a 4-step list to turn off a boiler safely.
- 2.3 Show how to check the water level before starting.
- 2.4 State why you must wait for a vessel to cool down before opening it.

3. Recognise the importance of personal protective equipment (PPE) and safety signage.

- 3.1 Pick the right safety glasses for a task involving steam.
- 3.2 Explain what a yellow "Warning" sign means.
- 3.3 Explain what a blue "Mandatory" sign means (e.g., wear ear protection).
- 3.4 Show how to wear a heat-resistant apron correctly.

4. Develop skills to implement safety protocols effectively in the workplace.

- 4.1 Put up a "Maintenance in Progress" sign before starting work.
- 4.2 Clear away any trash that might catch fire near a boiler.
- 4.3 Check that all safety guards are locked in place.
- 4.4 Use a lockout tag on a valve so nobody turns it on by mistake.

5. Understand maintenance routines that support safe and reliable operations.

- 5.1 List one thing that needs to be checked every morning.
- 5.2 State how to clean a pressure gauge lens safely.
- 5.3 Identify a part that needs oiling to stay in good condition.
- 5.4 Tell how often a safety valve should be tested by a worker.

HSE0001-05- Emergency Response and Incident Management

This unit introduces learners to emergency actions related to pressure vessel and boiler failures, including alarms, evacuation awareness, emergency shutdown fundamentals, leak response, and incident reporting. Learners will understand incident handling basics, communication protocols, and personal safety during industrial emergencies. The unit promotes calm, structured, and safety-driven responses to minimise harm.

Learning Outcome:

Assessment Criteria:

1. Understand procedures for responding to emergencies involving pressure vessels and boilers.

- 1.1 Distinguish between the audible and visual alarms for general site evacuation and specific boiler plant warnings (e.g., Low Water Level alarm or High-Pressure Safety Valve lift).
- 1.2 Locate and identify the function of critical emergency safety controls, specifically the Emergency Fuel Shut-Off (ESO) button and main electrical isolation switches.
- 1.3 Describe the immediate "Make Safe" actions to be taken upon discovering a steam leak or pressure boundary failure before evacuating the area.
- 1.4 Select the correct evacuation route that avoids high-risk zones (such as directly passing steam headers or fuel lines) to reach the designated assembly point safely.

2. Learn how to manage incidents, including leaks, overpressure, and system failures.

- 2.1 Show how to press the "Emergency Stop" button.
- 2.2 State the first thing to do if you see smoke.
- 2.3 Tell how to keep other people away from a dangerous leak.
- 2.4 Identify which valve to turn to cut off the fuel supply.

3. Develop skills to coordinate with emergency services and internal response teams.

- 3.1 Give a clear 1-sentence report of an incident to a supervisor.
- 3.2 Practice telling a fire officer where the boiler room is.
- 3.3 Identify the meeting point for all workers during an emergency.
- 3.4 Show where the list of staff names is kept for a roll call.

4. Recognise the importance of evacuation plans, alarms, and communication systems.

- 4.1 Identify two different exit paths from the boiler room.
- 4.2 State why you must never use a lift during a fire.
- 4.3 Tell why alarms must be loud enough for everyone to hear.
- 4.4 Identify a "Fire Exit" sign in a dark or smoky room.

5. Evaluate incident response effectiveness and identify lessons for improvement.

- 5.1 Verify that critical initial safety actions (e.g., hitting the emergency fuel shut-off or isolating pressure valves) were performed correctly before evacuation.
- 5.2 Identify specific obstructions or hazards encountered along the primary and secondary escape routes during the evacuation drill.
- 5.3 Participate in a post-drill debrief (toolbox talk) to clearly communicate observations regarding the audibility of alarms and the speed of the response.
- 5.4 Propose one actionable corrective measure to address a specific deficiency observed during the drill (e.g., improved signage, clearer assembly point marking, or faster machinery shutdown).

HSE0001-06- Inspection and Testing

This unit provides awareness of routine inspection and testing practices for pressure vessels and boilers. Learners will understand the purpose of safety valves, pressure gauges, visual checks, non-technical inspection support, and common fault indicators. The unit emphasises observation, assisting qualified inspectors, understanding test objectives, and recognising the importance of inspection schedules for safe operations.

Learning Outcome:

Assessment Criteria:

- | | |
|---|--|
| 1. Understand the principles and methods of inspecting pressure vessels and boilers. | <ul style="list-style-type: none">1.1 List two things to look for when checking a pipe (e.g., rust or drips).1.2 State why we use a mirror to look behind a boiler.1.3 Identify the tools needed for a simple visual check.1.4 Tell why we check the outside of a vessel for bulges or dents. |
| 2. Learn basic testing procedures to ensure operational integrity and safety. | <ul style="list-style-type: none">2.1 Design a PID controller tuning strategy to meetRead a pressure gauge and say the number out loud.2.2 Identify if a gauge needle is in the "Red" (Danger) zone.2.3 Show how to use a soapy water spray to find a small leak.2.4 State why a test must be stopped if a loud bang is heard. |
| 3. Develop the ability to identify defects, wear, or potential failure points. | <ul style="list-style-type: none">3.1 How would you point out a bolt that is rusty or loose.3.2 Identify a seal that is cracked or dry.3.3 Spot a damp patch on the floor that shows a slow leak.3.4 Identify a strange vibration when a pump is running. |
| 4. Recognise the importance of regular inspections for preventing accidents. | <ul style="list-style-type: none">4.1 State why a daily check is better than a monthly check.4.2 Tell how a small crack can become a big explosion if not found.4.3 State why an inspector's certificate must be kept up to date.4.4 Give one reason why machines last longer when they are inspected. |

5. Apply inspection results to support safe and efficient operations.

- 5.1 Explain what would you consider for passing or failing on a simple inspection card.
- 5.2 How would you put a "Faulty" tag on a valve that is leaking.
- 5.3 How and what to tell a supervisor immediately if a test fails.
- 5.4 Help write down the date of the next inspection on a calendar.

HSE0001-07- Documentation and Record Keeping

This unit introduces the importance of maintaining accurate safety and compliance records, including inspection logs, pressure test reports, maintenance entries, permits, safety checklists, and basic documentation processes. Learners will understand what information must be recorded, why traceability matters, and how documentation supports regulatory compliance, safe operations, audits, and incident prevention.

Learning Outcome:

Assessment Criteria:

1. Understand the importance of accurate documentation for safety and compliance.

- 1.1 State why we write down the boiler's pressure every hour.
- 1.2 Tell why the boss needs to see the maintenance records.
- 1.3 Identify one problem caused by a missing safety report.
- 1.4 State why records are important if an accident happens.

2. Learn how to maintain inspection reports, maintenance logs, and operational records.

- 2.1 State the importance of keeping accurate and legible records for boiler safety and regulatory compliance.
- 2.2 Identify the key operational parameters that must be recorded on a daily log sheet (e.g., pressure, temperature, water levels).
- 2.3 Complete the mandatory header details on a boiler log sheet, including operator name, date, and shift duration.
- 2.4 Accurately record gauge readings for temperature and pressure into the operational log at required intervals.

3. Develop skills to track and report incidents, repairs, and preventive actions.

- 3.1 Develop skills to track and report incidents.
- 3.2 Write two sentences about a leak you found.
- 3.3 List the time an alarm went off and the time it stopped.
- 3.4 Identify who to give a completed incident form to.
- 3.5 Check that a repair has been signed off by a technician.

4. Recognise how proper documentation supports audits and regulatory compliance.

- 4.1 Show an inspector where the last three months of logs are.
- 4.2 State why an auditor looks for signatures on safety sheets.
- 4.3 Identify a "Record of Inspection" sticker on a machine.
- 4.4 Tell why keeping clean records helps pass a safety audit.

5. Apply record-keeping best practices to enhance operational transparency.

- 5.1 Correct recording errors using industry-standard practice (single line strikethrough, insertion of correct data, initial, and date) ensuring the original entry remains legible.
- 5.2 Maintain the chronological order and physical integrity of the logbook to ensure a continuous and traceable timeline of boiler operations.
- 5.3 Produce clear, legible, and objective entries that facilitate accurate information transfer during shift handovers and audits.

HSE0001-08- Safety Culture and Continuous Improvement

This unit promotes a safety-first mindset by helping learners understand workplace responsibility, hazard reporting, teamwork, communication, accountability, and safe behaviour around pressure systems. Learners will explore the importance of safety awareness, lessons learned from incidents, supporting safer environments, and how continuous improvement strengthens industrial safety and operational reliability.

Learning Outcome:

Assessment Criteria:

- | | |
|---|---|
| 1. Understand the role of organisational culture in promoting safety. | <ul style="list-style-type: none">1.1 State why safety is the most important part of the job.1.2 Tell how helping a teammate stay safe helps the whole company.1.3 Identify a "Good Safety Habit" (like cleaning up spills).1.4 State why you should never be afraid to report a safety concern. |
| 2. Learn strategies to encourage staff engagement in safe practices. | <ul style="list-style-type: none">2.1 Remind a teammate to put on their safety glasses.2.2 Suggest a safety topic for the next morning meeting.2.3 Show a new worker where the fire exit is.2.4 Thank a coworker for spotting a hazard for you. |
| 3. Develop awareness of continuous improvement processes for operational safety. | <ul style="list-style-type: none">3.1 Identify a task that is difficult to do safely and suggest a fix.3.2 State why we change rules after a near-miss accident.3.3 List one new safety tool that could make a job easier.3.4 Tell how a small change (like a new sign) can prevent a big mistake. |
| 4. Recognise the benefits of feedback, training, and learning from incidents. | <ul style="list-style-type: none">4.1 Attend a 10-minute training session on a new valve.4.2 Ask a supervisor how to do a task more safely.4.3 State one thing you learned from a safety video.4.4 Tell a trainer if a safety instruction is hard to understand. |

5. Apply improvement techniques to strengthen safety performance and reduce risks.

- 5.1 Use a new checklist that was made to stop mistakes.
- 5.2 Keep a work area cleaner than it was the day before.
- 5.3 Use a new piece of safety gear after being shown how.
- 5.4 Check if a new safety rule has made your job feel safer.

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