

# PRESSURISED SYSTEMS INTEGRITY - WRITTEN SCHEMES OF EXAMINATION (WSE) WITHIN PSSR

*"Ensure Compliance and Operational Safety with Effective Written Schemes under PSSR Regulations"*

## Schedule

Date	Venue	Fees (Face-to-Face)
03 - 07 Aug 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training, In-House Training

## Introduction

Pressurised systems present significant safety risks if not properly managed, making regulatory compliance and system integrity critical for operational safety. The Pressure Systems Safety Regulations (PSSR) mandate a Written Scheme of Examination (WSE) to ensure systems are adequately maintained and inspected throughout their lifecycle.

This intensive 5-day training course provides detailed insights into the design, implementation, and management of WSEs in accordance with PSSR. Participants will gain the competence to develop, review, and manage effective schemes to minimize risk and ensure legal compliance.

## Objectives

By the end of this course, participants will be able to:

- Understand the legal framework and safety obligations under PSSR
- Develop and manage effective Written Schemes of Examination (WSE)
- Identify components requiring examination and assess risk levels
- Collaborate with Competent Persons (CPs) in drafting and executing WSEs
- Ensure continuous compliance through systematic inspection and record-keeping

## Why Attend

- Learn the legal and technical requirements of PSSR and WSEs
- Understand risk-based inspection methods for pressurised systems
- Gain practical knowledge on drafting and reviewing WSE documents
- Enhance plant safety and compliance through systematic integrity management
- Avoid legal penalties and improve asset lifecycle integrity

## Target Audience

This program is designed for:

- Engineers and professionals responsible for pressure system integrity
- Health, Safety & Environment (HSE) officers
- Maintenance managers and plant supervisors
- Inspection engineers and compliance auditors
- Technical personnel involved in regulatory documentation

## Individual Benefits

Key competencies that will be developed include:

- Deep understanding of PSSR requirements and applications
- Capability to develop comprehensive WSE documentation
- Proficiency in risk assessment and integrity management of pressure systems
- Skill in coordinating with Competent Persons and inspection bodies
- Confidence in maintaining system records to satisfy regulatory audits

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety compliance and reduced risk of system failure
- Streamlined inspection processes with clear and effective WSEs
- Enhanced reputation with regulators and insurers through best practices
- Reduced downtime and increased operational assurance
- Strengthened internal governance and documentation standards

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Deep dive into PSSR, WSE structure, and compliance workflows
- Case Studies - Real-world incidents and lessons in pressure system failures
- Workshops - Practical exercises in drafting and evaluating WSEs
- Peer Exchange - Group discussions on challenges in regulatory implementation
- Tools - Templates for WSEs, risk assessments, and inspection plans

## MAWA EVENTS

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## Course Outline

**Training Hours:** 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

### Day 1: Understanding PSSR and Pressure Systems Safety

- Module 1: Introduction to PSSR Regulations (07:30 – 09:30)
  - Scope and applicability of the Pressure Systems Safety Regulations
  - Key terms, responsibilities, and definitions
  - Legal implications and enforcement
- Module 2: Hazards in Pressurised Systems (09:45 – 11:15)
  - Risk factors associated with pressure vessels and systems
  - Historical failures and incident analysis
  - Design safety and system control
- Module 3: Components Subject to Examination (11:30 – 01:00)
  - Identifying equipment under WSE
  - Pressure vessels, safety devices, and pipework
  - Hazard categorization and prioritization
- Module 4: Workshop – Identifying Assets Requiring a WSE (02:00 – 03:30)
  - Asset listing and categorization
  - Hazard and risk matrix application
  - Group review and discussion

### Day 2: Written Schemes of Examination (WSE) Framework

- Module 1: Role and Purpose of the WSE (07:30 – 09:30)
  - Requirements under PSSR Regulation 8
  - Functional goals and structure of a WSE
  - Legal responsibilities and best practices
- Module 2: Developing a Written Scheme (09:45 – 11:15)
  - Key components and format of a WSE
  - Inspection intervals, methods, and responsibilities
  - Managing changes and updates
- Module 3: Role of the Competent Person (11:30 – 01:00)
  - Definition and qualifications of a Competent Person
  - Relationship between CP and duty holder
  - Ensuring integrity through collaboration
- Module 4: Case Study – Reviewing an Incomplete WSE (02:00 – 03:30)
  - Identifying gaps and potential risks
  - Improving clarity and compliance
  - Best practice checklist

### Day 3: Risk-Based Examination and Inspection Practices

- Module 1: Risk-Based Inspection (RBI) Principles (07:30 – 09:30)
  - Introduction to RBI methodologies
  - Risk matrix development
  - Probability and consequence analysis
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**Module 2: Inspection Methods and Techniques (09:45 – 11:15)**

- Visual, ultrasonic, radiographic, and other NDT techniques
- Setting inspection intervals
- Evaluating results and planning actions
- Module 3: Integration with Maintenance and Operations (11:30 – 01:00)
- Linking WSE with CMMS
- Communication between operations and inspectors
- Synchronizing inspection and shutdown schedules
- Module 4: Workshop – Drafting an Inspection Plan Based on Risk (02:00 – 03:30)
- Developing schedules
- Selecting inspection methods
- Documentation and approval process

**Day 4: Managing Documentation, Records, and Non-Compliance**

- Module 1: Record Keeping and Reporting (07:30 – 09:30)
- Document control for WSEs and inspection results
- Retention and accessibility requirements
- Formats and digital systems
- Module 2: Auditing and Compliance Monitoring (09:45 – 11:15)
- Internal and external auditing standards
- Preparing for regulatory inspection
- Performance indicators
- Module 3: Dealing with Non-Compliance (11:30 – 01:00)
- Recognizing deficiencies and safety gaps
- Reporting and rectification procedures
- Preventive and corrective action plans
- Module 4: Case Study – Managing Regulatory Feedback (02:00 – 03:30)
- Example of a non-compliance scenario
- Corrective strategy development
- Group discussion and solution proposal

**Day 5: System Optimization and Future Considerations**

- Module 1: Enhancing WSE Effectiveness (07:30 – 09:30)
- Lessons learned from incidents and audits
- Improving clarity and usability of WSEs
- Stakeholder engagement
- Module 2: Future-Proofing Inspection Programs (09:45 – 11:15)
- Technology in inspection and monitoring
- Digital twins and predictive tools
- Trends in regulatory expectations
- Module 3: Program Review and Final Recommendations (11:30 – 01:00)
- Consolidating best practices
- Customizing WSEs for specific industries
- Preparing action plans for implementation
- Module 4: Final Assessment and Certification (02:00 – 03:30)

Recap of core concepts

- Course evaluation and participant feedback
- Certificate distribution

### Certification

Participants will receive a Certificate of Completion in Pressurised Systems Integrity and Written Schemes of Examination (WSE) under PSSR, validating their expertise in regulatory compliance, risk management, and pressure system inspection planning.

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