

Master Class Series



Using ASME Codes to meet the EU Pressure Equipment Directive (PED)

A Practical, Case Study-based Training Program
Led by:

Colin Pimley, C Eng, M.I.Mech.E

15 Hours • 1.5 CEUs • 15 PDHs

About this MasterClass (MC135)

This two day MasterClass provides an overview of the EU Pressure Equipment Directive (PED), highlights the changes in the 2014/68/EU version, and identifies specific issues of importance. This is followed by a detailed review of the requirements of the PED and how employing the ASME Codes can satisfy them. As each aspect of the Directive is discussed, examples are provided to illustrate how the Codes meet the PED and how they should be documented to fulfil the Technical Documentation requirements of the PED. Practical demonstrations are provided for the “assessment of hazards and risks”, preparation of PMAs, technical documentation and quality system documentation, to meet the optional quality system requirements.

For more information and to register, visit
<http://go.asme.org/mc135>



ASME MasterClass Series

The ASME MasterClass Series focuses on applications and case studies of a particular topic. Each MasterClass is led by an ASME Master, an expert in his professional discipline, who brings a wealth of knowledge and practical examples to the forum. Participants are expected to have prior knowledge of the topic area to gain the most from this interactive environment.

Sessions are focused on real world examples and case studies, with active class discussion and analysis.

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Upon completion, attendees will be able to

- Identify the requirements and recent changes of the PED and what is required to satisfy these requirements
- Describe the use of ASME Codes for design and manufacture of pressure equipment to comply with the PED
- Document PMAs for selected materials
- Prepare technical documentation that describes how the applicable (ESRs) have been met
- Prepare a quality system documentation appropriate for assessment using ASME PED Guide Modules E, D, H, H1

Who Should Attend

This MasterClass is aimed at engineers associated with the design, manufacture and inspection of all types of pressure equipment who wish to use ASME Codes as a basis of design. This may be due to a wish to standardise products to one Code, familiarity with ASME Codes or customer preference.

About this ASME Master

Colin Pimley, C Eng, M.I.Mech.E

is a highly experienced, conformity assessment professional with an in-depth knowledge of the EU ‘New Legislative Framework’ (NLF) and associated product directives covering pressure equipment, construction products and machinery.

Colin has over 25 years’ experience in product conformity assessment, which he gained via a series of senior technical positions with leading global conformity assessment organisations throughout the regulated sector.



A Chartered Mechanical Engineer, Colin originally trained in pressure equipment design, and worked in the water-tube boiler industry for eight years. Through this work he developed his expertise in product design and manufacturing. Moving into the conformity assessment sector afforded the opportunity to deepen his knowledge across a wider range of pressure equipment using numerous national and international codes, including those of ASME.

Colin has worked with the PED (Pressure Equipment Directive) from its original introduction in the late 1990’s. Additionally, he has been closely involved in the development of its interpretations and guidelines via participation in the Notified Body Coordination Meetings at both the national and European level.

More recently, Colin held Technical Management roles with two leading Notified Bodies, for which he was responsible for maintaining accreditations, development of technical procedures, competence management, as well as being the focal point for resolving complex technical issues.

Currently, Colin works as a freelance consultant offering his expertise to a range of stakeholders.

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PROGRAMME

The contents are presented in 9 sessions, tentatively organized as shown. The two-day schedule allows for ample discussion and interaction with attendees. The instructors reserve the right to modify the content to address the audience's needs and preferences.

DAY ONE: 8:00am – 5:00pm

1. Introduction to PED including latest revision
 - a. New Approach and New Legislative Framework
 - b. PED -2014/68/EU
 - c. Scope and requirements
 - d. Changes from 97/23/EC
 - How do I use ASME Codes to meet PED?

2. Getting started, determining:
 - a. Categories
 - b. Fluid Groups
 - c. Conformity Assessment Modules
 - d. Global Conformity Assessment
 - Who are the Conformity Assessment Bodies?
 - What is an Equivalent Overall Level of Safety?
 - Harmonized Standards

3. Design using ASME Codes
 - a. Hazard/Risk Assessment
 - b. Meeting ESRs using ASME Codes

4. Materials
 - a. Selection of material
 - b. Material Certification requirements
 - c. ESRs for materials
 - d. Documenting PMAs

(End of Day One)

DAY TWO: 8:00am – 5:00pm

5. Welding
 - a. Qualification of joining procedures
 - b. Qualification of joining personnel

6. NDE
 - a. Qualification of NDE personnel

7. Manufacturing
 - a. Inspection in process
 - b. Material Traceability
 - c. Final assessment

8. Pressure Testing
 - a. Proof test
 - b. CE marking

9. Technical Documentation
 - a. Preparation of Technical Documentation

10. Quality System (Module H)
 - a. Quality Manual based on ASME QC manual

(End of Day Two)