Quality **assurance**

SEVEN STEPS TO PED COMPLIANCE

LRQA
Your Risk Management Advantage

INTRODUCTION

Pressure Equipment Directive (PED) certification plays a critical role in ensuring the safety and integrity of your pressure equipment allowing free trade across the European Union (EU).

Navigating the complexities of the Pressure Equipment Directive (PED) can be challenging for manufacturers and operators of pressure equipment. This guide aims to provide a clear, step-by-step approach to achieving PED compliance, ensuring your products meet the highest standards of safety and integrity in the hope you can confidently place your pressure equipment on the European market and beyond.

Compliance with PED isn't just about meeting international or regional codes, standards and regulations – it's about ensuring your operations' quality, integrity and reliability, from your products and equipment to your processes and systems. Non-compliance can lead to legal penalties, reputational damage, and loss of customer trust. But more importantly, it can compromise the safety and effectiveness of your offerings. That's why we're dedicated to supporting your compliance journey – helping you to minimise risk and seize opportunities that help your business grow safely and sustainably.

YOUR STEP BY STEP GUIDE TO PED

Step 1

Determine if your equipment falls within the scope of PED

Before beginning the compliance process, verify whether your equipment is subject to PED regulations. PED applies to equipment with a maximum allowable pressure greater than 0.5 bar and does not fall within the 21 exceptions listed in Article 1.2 of the directive.

> “PED covers pressure vessels, heat exchangers, pipe components, pressure accessories, valves, safety accessories, and more, intending to harmonise regulations across Europe pertaining to pressure equipment.”

Paris Mintzaridis, Technical Quality Manager, LRQA

Step 2

Classify the risk category of your equipment

PED classifies pressure equipment into categories, based on the perceived level of hazard. The classification helps determine the extent of the conformity assessment and the involvement of a notified body.

Use LRQA’s PED Calculator to accurately classify your equipment:

- Identify whether the content of the equipment is gas or liquid.
- Determine the fluid group (Group 1 for dangerous fluids and Group 2 for all others).
- Calculate the risk category using the maximum allowable pressure and volume for vessels or nominal diameter for piping.

LRQA’s PED software tools →

YOUR STEP BY STEP GUIDE TO PED

Step 3

Select the conformity assessment modules

Depending on the risk category, select an appropriate conformity assessment module. There are 12 modules, ranging from internal production control to full quality assurance. Higher risk categories require more involvement from a notified body like LRQA.

> “Having defined the risk category, you have to select the conformity assessment procedural module and reach out to your notified body, if notified body involvement is required.”

Duane Ahlquist, Business Development, Inspection Services, Manager, LRQA

Step 4

Develop and maintain technical documentation

For each product, create a comprehensive technical file that includes:

- Design calculations and drawings
- Hazard analysis and risk assessment
- Material certificates and joining procedure qualifications
- Inspection and test reports
- Operating instructions
- Ensure all documentation is kept up-to-date and reflects any changes in design or manufacturing processes.

Step 5

Independent site inspection and assessments

If your selected conformity assessment module requires it, engage with a notified body to conduct design reviews, inspections, and audits to verify compliance with PED requirements. They will also review and approve permanent joining procedures and personnel qualifications.

When you work with LRQA, you are working with a global leader in compliance that is trusted by regulators and accreditation bodies worldwide to perform inspections and issue certifications. Our team of experts are authorised to deliver services in line with international and regional codes, standards and regulations, bringing a wealth of knowledge and experience to your compliance journey.

YOUR STEP BY STEP GUIDE TO PED

Step 6

Apply the CE mark and issue the declaration of conformity

Once compliance is achieved, apply the CE mark to your equipment and prepare the EU Declaration of Conformity. This document must include:

- Name and address of the manufacturer
- Description of the pressure equipment
- Conformity assessment procedures followed
- Details of the notified body involved
- References to applicable standards and certifications

Step 7

Maintain compliance and update records

PED compliance is an ongoing process. Regularly review and update your technical documentation, quality management systems, and conformity assessments to ensure continued compliance with the latest standards and regulations.

WHY LRQA?

DON'T COMPROMISE ON COMPLIANCE

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Global reach, local insight

LRQA offers specialist inspection & assurance services in over 80 countries, including PED, helping clients in every sector. Our team of over 1,500 inspection experts utilises extensive local sector knowledge to help thousands of clients safely and sustainably establish best practices.

Flexible delivery

In many cases, our services can be delivered on-site or remotely using safe and secure technology. If you opt for our remote delivery methods, you'll receive the same high-quality service with several added benefits, including flexibility, fast delivery and access to global expertise.

Consistent approach

We work with you, to gain a comprehensive understanding of your business including your PED needs. Using our broad expertise and continued support, we ensure that your suppliers, equipment, processes, and projects perform in line with expectations and comply with relevant laws, regulations, and best practices.

Total assurance

We've led the way in shaping our industry and continue to expand our services and expertise by collaborating with clients, acquiring businesses, and forming new partnerships. The result is a unique and connected portfolio of services – including approval- that can help you ensure complete product integrity.

ABOUT LRQA

LRQA is a leading global risk management partner.

Through our connected risk management solutions, we help you navigate an evolving global landscape to keep you one step ahead.

From certification and cybersecurity, to safety, sustainability and supply chain resilience, we work with you to identify risks across your business. We then create smart, scalable solutions, tailored to help you prepare, prevent and protect against risk.

Through relentless client focus, backed by decades of sector-specific expertise, data-driven insight and on-the-ground specialists across assurance, certification, inspection, advisory and training, we support over 61,000 organisations in more than 150 countries.

LRQA – Your risk management advantage.

GET IN TOUCH

Visit **LRQA.com/in** for more information or email **enquiries.in@lrqa.com**

LRQA
Solitaire Corporate Park,
Building 12, 4th floor,
Andheri (East), Mumbai - 400 093
India

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