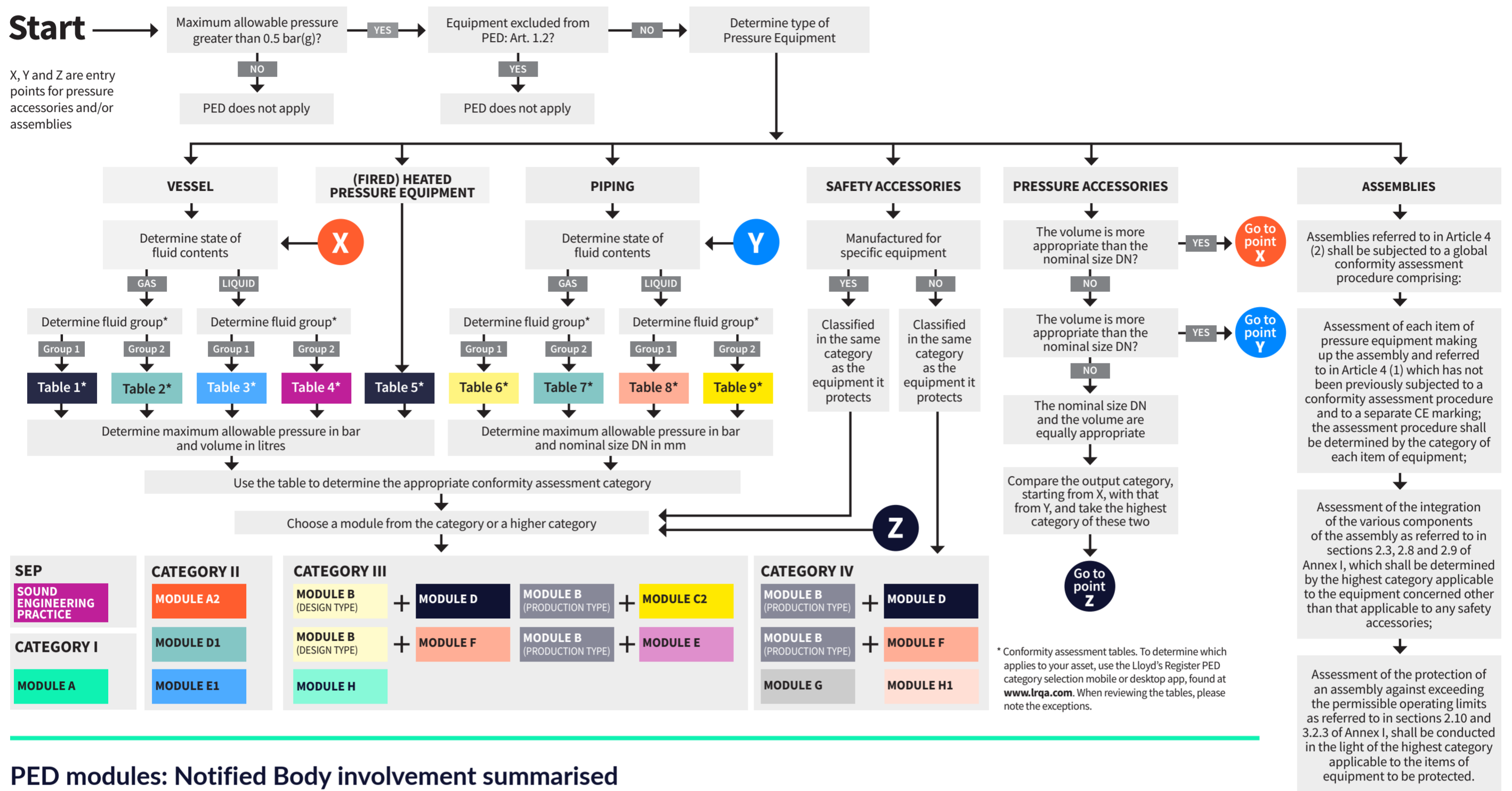


PRESSURE EQUIPMENT DIRECTIVE

CATEGORY AND MODULE DECISION FLOWCHART – 2014/68/EU



PED modules: Notified Body involvement summarised

Manufacturers may select from a range of conformity assessment modules to show the Essential Safety Requirements are met, which include:

- Manufacturer's self-certification
- Third-party type examination or design examination
- Third-party inspection
- Quality management system certification

Please note: The following are summaries of the Notified Body's involvement and are not exhaustive. To determine which applies to your asset, use the Lloyd's Register PED category selection desktop tool or our mobile app. Visit www.lrqa.com for more information.

KEY TERMS

- CoC** – Certificate of Conformity
- DoC** – Declaration of Conformity
- ESRs** – Essential Safety Requirements
- NoBo** – Notified Body

<p>MODULE A Internal Production Control NOBO'S RESPONSIBILITY: • None</p>	<p>MODULE A2 Internal Production Control plus random pressure equipment checks NOBO'S RESPONSIBILITY: • Monitor through unexpected visits • Ensure manufacturer performs final assessment according to Sec. 3.2 of ESRs • Take samples of pressure equipment to conduct checks • Assess number to sample and whether it is necessary to perform all or part of final assessment on the samples</p>	<p>MODULE B (PRODUCTION TYPE) EU type examination – production type NOBO'S RESPONSIBILITY: • Examine technical documentation • Assess materials and check certificates • Approve procedures for permanent joining or check they have been previously approved • Verify the joining and NDE personnel are qualified or approved • Carry out appropriate examinations and tests to check if the chosen standards are applied correctly • Draw up evaluation report • Issue EU type-examination certificate - production type • Notify NoBo approving authority and other NoBos</p>	<p>MODULE B (DESIGN TYPE) EU type examination – design type NOBO'S RESPONSIBILITY: • Examine technical documentation • Assess materials • Approve procedures for permanent joining or check they have been previously approved • Draw up evaluation report • Issue EU type-examination certificate - design type • Notify NoBo approving authority and other NoBos</p>	<p>MODULE C2 Conformity to type based on internal production control plus random pressure equipment checks NOBO'S RESPONSIBILITY: • Carry out checks at random intervals to verify quality of final assessment and internal checks on pressure equipment • Ensure manufacturer performs final assessment according to Section 3.2 of ESRs • Take samples of pressure equipment to conduct checks • Assess number to sample and whether it is necessary to perform all or part of final assessment on the samples</p>	<p>MODULE D Conformity to type based on Production Quality Assurance NOBO'S RESPONSIBILITY: • Assess quality system, including inspection visit • Conduct surveillance visits to ensure manufacturer fulfils obligations from approved quality system • Carry out periodic audits in such a frequency that a full reassessment is carried out every three years • Carry out unexpected visits • Assess proposed changes to the quality system • For category III and IV vessels for Group 1 and 2 gases and Group 1 liquids and steam generators, take a sample of equipment and perform proof test referred to in Section 3.2.2 of ESRs</p>	<p>MODULE D1 Production Quality Assurance NOBO'S RESPONSIBILITY: • Assess quality system, including inspection visit • Conduct surveillance visits to ensure manufacturer fulfils obligations from approved quality system • Carry out periodic audits in such a frequency that a full reassessment is carried out every three years • Carry out unexpected visits • Assess proposed changes to the quality system</p>
<p>MODULE E Conformity based on Pressure Equipment Quality Assurance NOBO'S RESPONSIBILITY: • Assess quality system, including inspection visit • Conduct surveillance visits to ensure manufacturer fulfils obligations from approved quality system • Carry out periodic audits in such a frequency that a full reassessment is carried out every three years • Carry out unexpected visits • Assess proposed changes to the quality system • For category III vessels for Group 1 gases, Group 2 gases and Group 1 liquids and steam generators, take a sample of equipment and perform the proof test referred to in Sec. 3.2.2 of the ESRs</p>	<p>MODULE E1 Quality Assurance of Final Pressure Equipment inspection and testing NOBO'S RESPONSIBILITY: • Assess quality system, including inspection visit • Conduct surveillance visits to ensure manufacturer fulfils obligations from approved quality system • Carry out periodic audits in such a frequency that a full reassessment is carried out every three years • Carry out unexpected visits • Assess proposed changes to the quality system</p>	<p>MODULE F Conformity based on Pressure Equipment Verification NOBO'S RESPONSIBILITY: • Examine and test each item of pressure equipment to verify each item conforms to the type and requirements of the Directive • Verify the joining and NDE personnel are qualified or approved • Verify material manufacturers' certificates • Carry out or have carried out final inspection and proof test as referred to in Section 3.2 of the ESRs • Draw up written CoC for the tests carried out</p>	<p>MODULE G Conformity based on Unit Verification NOBO'S RESPONSIBILITY: • Examine design and construction of each item • Examine technical documentation with respect to design and manufacturing procedures • Assess materials • Verify material manufacturers' certificates • Approve procedures for permanent joining of parts or check previous approval • Verify the joining and NDE personnel are qualified or approved • Perform appropriate tests during manufacture • Carry out final inspection and perform or have performed proof test as referred to in Section 3.2 of the ESRs • Draw up CoC for the tests carried out</p>	<p>MODULE H Conformity based on Full Quality Assurance NOBO'S RESPONSIBILITY: • Assess quality system, including inspection visit • Conduct surveillance visits to ensure manufacturer fulfils obligations from approved quality system • Carry out periodic audits in such a frequency that a full reassessment is carried out every three years • Carry out unexpected visits • Assess proposed changes to the quality system • For category III vessels for Group 1 gases, Group 2 gases and Group 1 liquids and steam generators, take a sample of equipment and perform or have performed the proof test referred to in Section 3.2.2 of the ESRs • For one-off production of category III steam generators, the proof test must be performed for each unit</p>	<p>MODULE H1 Conformity based on Full Quality Assurance plus design examination NOBO'S RESPONSIBILITY: • Issue an EC design-examination certificate • Carry out increased surveillance of the final assessment in the form of unexpected visits which must include examinations on the pressure equipment • Assess any modifications to the approved design and give additional approval</p>	<p>MODULE SEP Sound Engineering Practice NOBO'S RESPONSIBILITY: • None</p>

To find out how LRQA can help you, visit www.lrqa.com