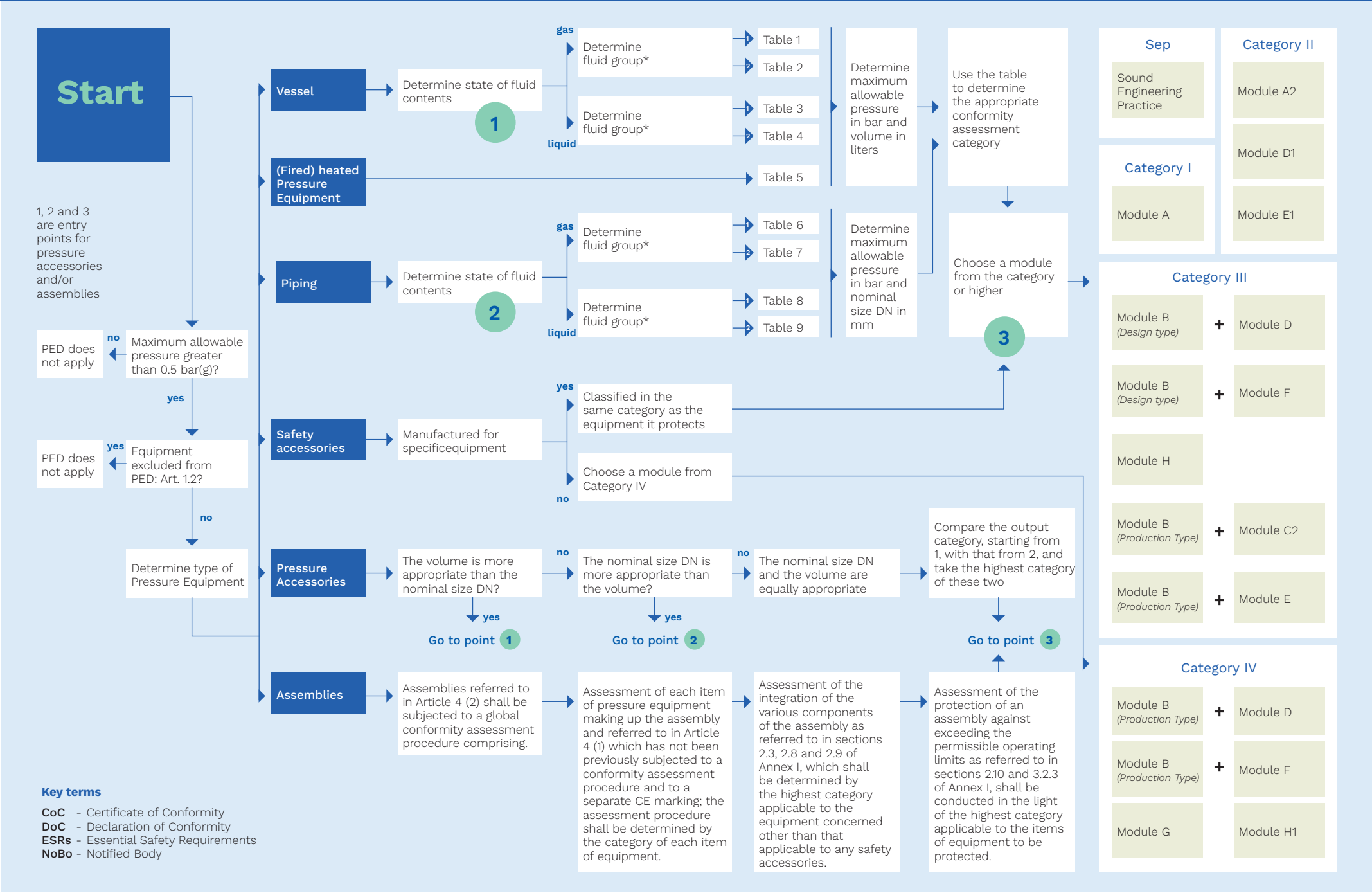


Pressure Equipment Directive

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.

SEP

Sound engineering Practice

NoBo's responsibility:

- None

Module A

Internal productionControl

NoBo's responsibility:

- None

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

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

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

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

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

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

Module E

Conformity to type 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 the proof test referred to in Sec. 3.2.2 of the ESRs

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

Module F

Conformity to type 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

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

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

Module H1

Conformity based on full quality assurance plus design examination

- NoBo's responsibility in addition to the requirements of module H:
- 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