

ASME Code Section VIII, Division 2 – Alternative Rules for Pressure Vessels

Date: Thursday, 8 February 2024 – Online

When does it make sense to switch to Division 2? In particular, the new classification into Class 1 and Class 2 vessels makes Division 2 a real alternative to the normally used Division 1. Moreover, Division 2 becomes more and more important for Division 1 users, as many of its modern calculation rules can also be used for Division 1 vessels under Code Case 2695 and now Appendix 46. Topics covered are material requirements and certificates, design, FEA, load cycles, fabrication, testing, inspection, pressure testing, overpressure protection and of course the differences to ASME Code Section VIII, Division 1. The seminar language is English.

Duration: 1 Day

Key points of the seminar:

- General requirements of the ASME Code Section VIII, Division
- Scope and other applicable standards and regulations
- Responsibility and duties (user, manufacturer, Authorized Inspector, etc.)
- Requirements for the UDS (User's Design Specification) and MDR (Manufacturer's Design Report)
- Registered Professional Engineer and alternatives
- Material selection, additional requirements and permissible stresses, brittle fracture concept, fatigue curves and calculations
- Design by rule, load cases and load combinations, tolerances, minimum wall thicknesses, joint types and categories
- Nozzles, inspection openings and external nozzle loads
- Design by analysis (finite element method), failure modes and analysis methods, stress categorization and stress evaluation
- Fatigue screening methods to evaluate the necessity of a fatigue analysis
- Fabrication, welding, postweld heat treatment
- Inspection and scope of non-destructive examination, classification in "Examination Groups", permissible test methods and acceptance criteria
- Hydrostatic and pneumatic pressure test as well as alternatives
- Overpressure protection, valves, bursting discs and alternatives

Instructor: Dipl.-Ing Michael Frohnert – E-Mail: frohnert@cis-inspector.com

Michael Frohnert's main field of activities is preparing and reviewing design calculations according to the ASME Code and other international Codes and Standards for the plant and mechanical engineering industries as well as performing ASME inspections and audits. At CIS GmbH which belongs to the ASME accredited Authorized Inspection Agency TÜV Thüringen e.V., he works as a design engineer, inspector and course instructor. He is an ASME Authorized Inspector Supervisor and also holds a National Board endorsement as Authorized Nuclear Inspector. Michael has held numerous public seminars and tailor-made in-company trainings and workshops covering a wide range of topics. On behalf of ASME he conducts their Section VIII, Division 2 seminars in Europe and Middle East. His in-depth involvement in the practical application of the ASME design rules is a very beneficial and valuable feature of his seminar work.

For further information please do not hesitate to contact directly the instructor or our seminar team:

Tel.: +49 201 74 72 75-0

Fax: +49 201 74 72 75-29

E-Mail: service@cis-inspector.com

<http://www.cis-inspector.com>

ASME Code Weeks Online 2024



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| company | <p>For online registration go to: www.cis-inspector.com/asme-code-weeks</p> <p>For postal or e-mail registration please contact the registration center in Germany below:</p> <p>CIS GmbH, Laubenhof. 6, 45326 Essen, Germany Fax: +49 201 74 72 75-29 E-Mail: service@cis-inspector.com</p> |
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| Title | Surname | First Name | H1 | H2 | H3 | H4 | H5 | H6 | H7 | H8 | H9 | H10 | H11 | H12 | H13 | H14 | H15 |
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| Sem. | Date | Title | Price |
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| H1 | 05.02.2024 | ASME Boiler & Pressure Vessel Code: An Introduction | 490 € |
| H2 | 06. - 07.02.2024 | ASME BPV Code, Section VIII, Division 1: Pressure Vessels | 960 € |
| H3 | 08.02.2024 | ASME BPV Code Section VIII, Division 2: Alternative Rules for Pressure Vessels | 490 € |
| H4 | 09.02.2024 | ASME BVP Code and PED ReHuirements | 490 € |
| H5 | 12. - 14.02.2024 | ASME BPV Code Section VIII, Division 1: Workshop Design Calculation | 1300 € |
| H6 | 14.02.2024 | Material Requirements of the ASME BPV Code | 490 € |
| H7 | 15. - 16.02.2024 | ASME BVP Code Section IX – Welding | 960 € |
| H8 | 15. - 16.02.2024 | EN 13445: The European Standard for Pressure Vessels | 960 € |
| H9 | 19.02.2024 | ASME B31.3 and B31.1: Process & Power Piping | 490 € |
| H10 | 20.02.2024 | EN 13480: The European Piping Code | 490 € |
| H11 | 21.02.2024 | ASME B16.34: Valves | 490 € |
| H12 | 22. - 23.02.2024 | ASME BPV Code, Section V: NDE Procedures and Personnel | 960 € |
| H13 | 19. - 20.02.2024 | ASME BVP Code, Section III – Nuclear Codes | 1050 € |
| H14 | 21. - 22.02.2024 | ASME NQA-1 - Nuclear Quality Assurance | 1050 € |
| H15 | 23.02.2024 | Lead Auditor Examination | 500 € |

All prices plus VAT