

# ASME Code Week

## Brussels 2019



### ASME Code Section VIII, Division 2

Date: Friday, 13 Dec. 2019 – Venue: Hotel Novotel City Centre, Brussels, Belgium

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. Topics covered are material requirements and certificates, design, FEA, load cycles, fabrication, testing, inspection, pressure testing, overpressure protection, differences to ASME Code Section VIII, Division 1 and above all: When does it make sense to switch to Division 2?

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](mailto: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](mailto:service@cis-inspector.com)  
<http://www.cis-inspector.com>

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Title	Surname	First Name	BR1	BR2	BR3	BR4	BR5	BR6	BR7	BR8

Sem.	Date	Title	Price
BR1	Monday 9 Dec. 2019	<b>ASME Code Section VIII, Division 1 Pressure Vessels</b>	€ 590
BR2	Monday 9 Dec. 2019	<b>ASME B31.3 und B31.1 - Piping</b>	€ 590
BR3	Monday 9 Dec. 2019	<b>ASME Code Section VIII, Division 1 – Workshop Design Calculation of Pressure Vessels</b>	€ 590
BR4	Tue. – Thu. 10 – 12 Dec. 2019	<b>ASME Code Section IX Welding</b>	€ 1.490
BR5	Tuesday 10 Dec. 2019	<b>ASME Code and PED Requirements</b>	€ 590
BR6	Tuesday 10 Dec. 2019	<b>Material Requirements of the ASME Code</b>	€ 590
BR7	Wed. – Fri. 11 – 13 Dec. 2019	<b>ASME Code Section III and NQA-1 Nuclear Codes</b>	€ 1.790
BR8	Friday 13 Dec. 2019	<b>ASME Code Section VIII, Division 2</b>	€ 590