

ASME Code Week

Brussels 2019



ASME Code Section VIII, Division 1 – Design Calculation Workshop

Date: Tue.-Thu., 10-12 Dec. 2019 – Venue: Hotel Novotel City Centre, Brussels, Belgium

Following a brief general introduction into the ASME Code the participants will be made familiar with the applicable ASME Code Section VIII, Division 1 design requirements. Many different practical examples and exercises will offer a deep insight into the ASME Code specific design rules. During the seminar the participants will calculate typical pressure components on their own, assisted by an experienced design engineer who is also an Authorized Inspector Supervisor.

Having attended this seminar the applicants have the necessary basic knowledge to perform their own design calculations and/or review such calculations for Code compliance.

The seminar language is English.

Duration: 3 days

Key points of the seminar:

- ASME Code – general introduction, Code Cases, Interpretations
- structure of Section VIII, Division 1
- design basics: determining the specific Section VIII, Division 1 design data (MAWP, design pressure, test pressure, design temperature, MDMT, seismic and wind loads, external nozzle loads, etc.)
- material (ASME, ASTM, EN) and establishing the allowable stress values as listed in Section II
- joint categories, types and efficiency factors E and the corresponding scope of NDE examination
- calculation of cylinders and cones, dished heads and flat covers, for internal and external pressure
- nozzles (reinforcement, large openings, external nozzle loads, UG-45, etc.)
- dimensioning flanges according to Appendix 2 and ASME B16.5
- vessel supports (saddles, lugs, skirts)
- special services UW-2 (lethal service, direct firing, low temperature service)
- finite element analysis in Section VIII, Division 1
- fatigue analysis requirements for Division 1 vessels
- impact test requirements as an integral design element
- considering PWHT requirements
- NDE requirements regarding RT, UT, PT, etc.
- proof test to establish the maximum allowable working pressure in VIII-1
- calculations using non-ASME procedures/formulas covered by par. U-2(g) of Section VIII-1 (e.g. FEA, British Standard, AD 2000, EN13445, etc.)
- pressure testing requirements of Division 1

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:

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company	<p>For online registration go to: www.cis-inspector.com/brussels</p> <p>For postal or e-mail registration please contact the registration center in Germany below:</p> <p>CIS GmbH, Karolingerstr. 96, 45141 Essen, Germany Fax: +49 201 74 72 75-29 E-Mail: service@cis-inspector.com</p> <p>Discounts: You will receive a € 100 discount for the second and any further booked seminar!</p>
contact	
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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	ASME Code Section VIII, Division 1 Pressure Vessels	€ 590
BR2	Monday 9 Dec. 2019	ASME B31.3 und B31.1 - Piping	€ 590
BR3	Monday 9 Dec. 2019	ASME Code Section VIII, Division 1 – Workshop Design Calculation of Pressure Vessels	€ 590
BR4	Tue. – Thu. 10 – 12 Dec. 2019	ASME Code Section IX Welding	€ 1.490
BR5	Tuesday 10 Dec. 2019	ASME Code and PED Requirements	€ 590
BR6	Tuesday 10 Dec. 2019	Material Requirements of the ASME Code	€ 590
BR7	Wed. – Fri. 11 – 13 Dec. 2019	ASME Code Section III and NQA-1 Nuclear Codes	€ 1.790
BR8	Friday 13 Dec. 2019	ASME Code Section VIII, Division 2	€ 590