

For online registration go to:

www.cis-inspector.com

For fax or e-mail registration please contact our registration center:

Fax: +49 201 74 72 75-29

E-Mail: seminar@cis-inspector.com

company	
name	
street	
ZIP, city	
country	
phone	FAX
e-mail	
signature	

Attendee #1

title	first name, surname	e-mail
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Attendee #2

title	first name, surname	e-mail
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Attendee #3

title	first name, surname	e-mail
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Please mark the seminars you would like to attend.

Attendee		
#1	#2	#3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Appendix 47 Special

D1 13 April How to meet the new Appendix 47 requirements of ASME Code Section VIII, Division 1, 2021 Edition easily € 75

Attendee		
#1	#2	#3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ASME Code Weeks 2022

P1 20 June ASME Code – Introduction € 450
P2 21 June Section VIII-1, Pressure Vessels € 450
P3 22 June Material Requirements € 450
P4 22 June ASME B16.34 – Valves € 450
P5 23-24 June ASME Section I – Power Boilers € 890
P6 23-24 June ASME Code Section V – NDE € 890
P7 27-28 June EN 13445 – Pressure Vessels € 890
P8 29 June EN 13480 – Piping € 450
P9 30 June ASME B31.3 and B31.1 – Piping € 450
P10 1 July ASME Code Section IX – Welding € 450
P11 4-5 July Section VIII-1, Design Workshop € 890
P12 6 July Section VIII-2, Alternative Rules € 450
P13 8 July ASME Code and PED € 450
P14 11-12 July ASME Code Section III – Nuclear € 970
P15 13-14 July ASME NQA-1 – Quality Assurance € 970

all prices plus VAT and per attendee

Performance

All courses are conducted live with **GoToWebinar**. After registration you will receive a link to register personally for your course. Certificates of attendance will be sent to all registered attendees after completion of the event.

If you have any questions, our seminar team will be pleased to help you at any time.

Please note:
New qualification requirements for design personnel!

„Appendix 47 Special“

13 April 2022 – online course – 1 pm to 4 pm (CET)

On 1 January 2022 a fundamental change in the new **ASME Code Section VIII, Division 1, 2021 Edition** became mandatory. Individuals engaged in design activities must be qualified according to the new Appendix 47 **BEFORE** they start their work! In addition, a specially qualified and experienced person with "Responsible Charge of Design Activities" must be designated.

The new requirements have caused some misunderstanding, even though they are quite simple to comply with. We show you how the requirements can be implemented most easily and provide answers to the following issues:

- **What does "Responsible Charge" mean and who may/must take over this function?**
- **What is a "Certifying Engineer", "Engineer", "Designer" and which qualifications are required?**
- **When can I go without a "Certifying Engineer"?**
- **What additional qualifications are required for certain design activities?**
- **How do I implement the new requirements in my ASME Quality Manual?**
- **Forms, Checklists & Co. - How do I easily fulfill the requirements for documentation?**
- **How can I register (e.g. with FEANI as an EUR ING) to obtain the qualification of a "Certifying Engineer"?**
- **First audit experiences from ASME Joint Reviews with the new requirements.**

Instructors:

Dr.-Ing. Dirk Kölbl
 Certifying Engineer / Authorized Nuclear Inspector Supervisor
 MD CIS GmbH Consulting Inspection Services – TÜV Thüringen Group

Dr. Thomas Kiefer
 MD Deutscher Verband Technisch-Wissenschaftlicher Vereine e.V.
 c/o Verein Deutscher Ingenieure e.V.

Dipl.-Ing. Michael Frohert
 Certifying Engineer / Authorized Inspector Supervisor / Authorized Nuclear Inspector
 CIS GmbH Consulting Inspection Services – TÜV Thüringen Group

ASME Code Weeks!

20 June to 14 July 2022

Week #1 – 20 to 24 June

Mon.	Tue.	Wed.	Thu.	Fri.
P1 The ASME BPV Code: An Introduction	P2 ASME BPV Code, Section VIII, Division 1: Pressure Vessels	P3 Material Requirements of the ASME BPV Code	P5 ASME BPV Code, Section I: Power Boilers	
		P4 ASME B16.34: Valves	P6 ASME BPV Code, Section V: NDE Procedures and Personnel	

Week #2 – 27 June to 1 July

Mon.	Tue.	Wed.	Thu.	Fri.
P7 EN 13445 The European Standard for Pressure Vessels		P8 EN 13480 The European Piping Code	P9 ASME B31.3 and B31.1: Process & Power Piping	P10 ASME BPV Code, Section IX: Welding

Week #3 – 4 to 8 July

Mon.	Tue.	Wed.	Thu.	Fri.
P11 ASME BPV Code, Section VIII, Division 1: Workshop Design Calculation		P12 ASME BPV Code, Section VIII, Division 2: Alternative Rules		P13 ASME BPV Code and PED Requirements

Week #4 – 11 to 14 July

Mon.	Tue.	Wed.	Thu.	Fri.
P14 ASME BPV Code, Section III: Nuclear Codes		P15 ASME NQA-1: Nuclear Quality Assurance		

CIS GmbH offers One-Stop Shopping for all your ASME Code Needs

Consulting and preparatory activities for the ASME certification audit

- Drawing up your Quality System Manual
- Welding documentation (WPS / WPO / WOPQ / PQR)
- Preparing work procedures
- Qualifying of NDE procedures and personnel (SNT-TC-1A)
- CIS participation in your ASME Joint Review and Nuclear Survey

Authorized Inspection Agency Activities for

- Section I, Power Boilers
- Section III Division 1 & 3, Nuclear Components
- Section IV, Heating Boilers
- Section VIII, Division 1, 2 & 3, Pressure Vessels
- Section X, Fiber Reinforced Plastic Pressure Vessels
- ASME B31.1 - Power Piping
- ASME Code Section XII - Transport Tanks
- ASME Code in combination with PED
- Canada, New Zealand, Singapore, Malaysia

ASME Code Seminars & Workshops

- In-company seminars, classroom or online — tailor-made for your projects

Design Examinations and Reviews

- ASME Code design examinations for pressure vessels, power boilers, piping, fittings, etc.
- Design examinations in line with various international Codes & Standards (AS1210, BS5500, AD2000, EN13445, etc.)

Immediate expert assistance and support with

- ASME certification process
- ASME Code application to meet the requirements of PED 2014/68/EU
- Inspection of pressure retaining components by ASME Authorized (Nuclear) Inspectors
- Qualification of work procedures and personnel
- Written Practice according to SNT-TC-1A
- Product registration according to CSA B51 (Canadian Registration Number, CRN)
- Design calculation issues
- Steel structures according to American Welding Society D1.1



Appendix 47 Special
ASME Code Weeks
 13 April 2022
 20 June - 14 July 2022

CIS TÜV Thüringen Group



All courses with the ASME Mark are approved by ASME:

CIS GmbH is an official ASME Authorized Training Provider.

All course instructors are ASME Authorized Training Instructors.

ASME will provide certificates of attendance for all participants after successful completion of the courses marked with the ASME logo.

ASME and the ASME logo are registered trademarks and service-marks of the American Society of Mechanical Engineers.



P3 Wednesday, 22 June 2022 € 450
Material Requirements of the ASME BPV Code

How to avoid the most common mistakes when using ASME Code material! You will concisely learn the basics of Section II for ASME material. This course will also focus on the specific requirements from the construction codes for pressure vessels and boilers.

Further important topics are material testing (impact, tensile, etc.), the use of non-ASME material and recertification, filler materials, correct material certificates and marking, yield/tensile/creep strength as a basis of allowable stress values, ASME Code compliant wording for material purchase orders.

Instructor: Dr.-Ing. Daniel Hüggenberg (AI/ANI)
contact: hueggenberg@cis-inspector.com



P4 Wednesday, 22 June 2022 € 450
ASME B16.34: Valves

ASME B16.34 is the most recognized standard for flanged, bolted or welding end valves worldwide. In this seminar you will learn all important requirements regarding dimensions, tolerances, design, fabrication, testing, marking and the declaration of conformity.

Important aspects are the determination of the minimum wall thicknesses of valves and the correct material selection with regard to Piping Codes B31.1 and B31.3 as well as ASME Code Sections I and III. Further the content with respect to the preparation of a manufacturer's standard for valves will be a learning outcome.

Instructor: Dipl.-Ing. Marcel Meronk (ANIS)
contact: meronk@cis-inspector.com



P5 Thu.-Fri., 23-24 June 2022 € 890
ASME BPV Code Section I: Power Boilers

Steam and pressure components in line with ASME Code Section I as a door opener for the export of power boiler equipment. In this seminar manufacturers and operators receive a detailed overview of the general requirements, design, manufacture, testing and assembly of steam boilers and installed piping. Other important aspects are material selection, inspection, final inspection and data reports as well as the correct selection of safety valves.

Instructor: Dr.-Ing. Daniel Hüggenberg (AI/ANI)
contact: hueggenberg@cis-inspector.com



P6 Thu.-Fri., 23-24 June 2022 € 890
ASME BPV Code Section V: NDE Procedures and Personnel

The important things you need to know about NDE. The participants will learn the basics about the NDE Methods (RT, CR, DR, UT, PAUT, TOFD, FMC, MT, PT, VT) and the required content of NDE procedures according to ASME Code Section V. The question will be answered on how to achieve and meet the ASME NDE personnel qualification requirements by incorporation of existing ISO 9712 qualifications.

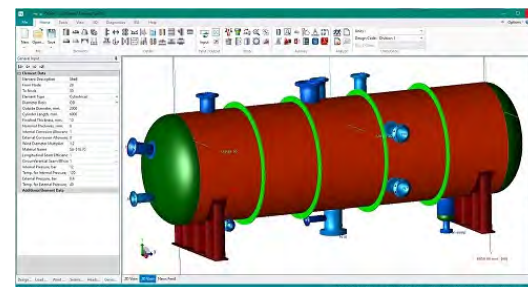
As far as practical the acceptance criteria of the ASME Codes Section I, III, VIII-1, VIII-2, IX, B31.1, B31.3, B16.34 will be summarized and condensed so that the participants gain good working knowledge on how to interpret indications revealed by the applied NDE method.

Instructor: Dipl.-Ing. Marcel Meronk (ANIS/NDE Level 3)
contact: meronk@cis-inspector.com

P7 Mon.-Tue., 27-28 June 2022 € 890
EN 13445 – The European Pressure Vessel Code

This extensive introductory seminar covers all important aspects from manufacturer requirements, material, brittle fracture concepts, production, testing and design to a comparison with the current status of the AD2000 regulations and the latest developments in the PED. Furthermore, its implementation in the European countries and its international recognition will be discussed.

Instructor: Uwe Sprengholz
contact: u.sprengholz@tuev-thueringen.ch



P8 Wednesday, 29 June 2022 € 450
EN 13480: The European Piping Code

Quick introduction to EN 13480. Starting with the essential contents and requirements regarding design, material, NDE and testing up to the hydrostatic pressure test, the selection of the right fittings and the use of American common materials (e.g. SA-106 Gr. B) or special materials (e.g. SA-355 P91) is also discussed in detail. The application with regard to the PED 2014/68/EU is also addressed in depth.

Instructor: Uwe Sprengholz
contact: u.sprengholz@tuev-thueringen.ch



P9 Thursday, 30 June 2022 € 450
ASME B31.3 and B31.1: Process & Power Piping

The two most important American design codes for piping in one seminar. ASME B31.3 (Process Piping) and B31.1 (Power Piping) cover most applications for piping both in the plant engineering industry and in the power plant sector. All relevant aspects of classification and scope, material (ASTM/EN), design calculation, fabrication, testing and inspection are discussed.

Further topics are standard components (e.g. ASME B16.5, B16.9 or B16.34) and their use within the framework of the piping regulations as well as questions on the duties and responsibilities of owners, manufacturers, inspectors and designers.

Instructor: Dipl.-Ing. Sascha Wegener (ANIS)
contact: wegener@cis-inspector.com



P10 Friday, 1 July 2022 € 450
ASME BPV Code, Section IX: Welding

This one-day course gives you a strong understanding of ASME's Section IX Welding Code. In the international plant engineering business ASME Code Section IX is the most often used standard for the qualification of welding, brazing and plastic fusion. This course exclusively covers the topic of welding and familiarizes you with the qualification of welding procedures and welders as required by ASME Code Section IX. The basic requirements of ASME Code Section IX will be demonstrated. During the course the participants gain the necessary knowledge to independently prepare and/or review Procedure Qualification Records (PQR), Welding Procedure Specifications (WPS) and Welder/Welding Operator/Performance Qualifications (WPQ/WOPQ).

Instructor: Dipl.-Ing. Sascha Wegener (ANIS)
contact: wegener@cis-inspector.com

For detailed information about the seminar contents and instructors visit www.cis-inspector.com/asme-code-weeks

All seminars are in English and run from 9 am to 5 pm (CET)



P11 Mon.-Tue., 4-5 July 2022 € 890
ASME BPV Code Section VIII, Division 1: Workshop Design Calculation

ASME Code vessels don't always have to be "fatter"! 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 course, 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 course the applicants have the necessary basic knowledge to perform their own design calculations and/or review such calculations for Code compliance.

Instructor: Dipl.-Ing. Michael Frohnert (AIS/ANI/Certifying Engineer)
contact: frohnert@cis-inspector.com



P12 Wednesday, 6 July 2022 € 450
ASME BPV Code, Section VIII, Division 2: Alternative Rules for Pressure Vessels

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.

Instructor: Dipl.-Ing. Michael Frohnert (AIS/ANI)
contact: frohnert@cis-inspector.com



P13 Friday, 8 July 2022 € 450
ASME BPV Code and PED Requirements

The ASME Code as a sound basis to meet the requirements of the European Pressure Equipment Directive (PED). The seminar begins with a general introduction into PED 2014/68/EU to make the participants familiar with its features — you will learn how to apply the regulations efficiently. Furthermore, the practical application of the directive will be demonstrated on an ASME Code stamped pressure vessel. In this context typical issues and challenges such as material, impact testing, personnel qualification etc. will be addressed.

Instructor: Dipl.-Ing. Andreas Splinter (ANIS)
contact: splinter@cis-inspector.com



P14 Mon.-Tue., 11-12 July 2022 € 970
ASME BPV Code Section III: Nuclear Codes

How to find your way around the Code in 10 seconds! Structure and usage of ASME Code Section III, including the changes of the 2021 Edition. What are Class 1, 2, 3, MC, CS, SC, TC, QSC, ASME N, NV, NPT, NS and NA Certificates? We cover qualification and certification as a service provider, certification as a "Material Organization", Unqualified Source Material and the material certificates CMTR or CoC. Furthermore, we look at valves, pumps, vessels, pipelines, supports, assembly and inservice inspections. The comprehensive seminar provides detailed insights and answers specific questions on ASME Code Section III. Practical examples and exercises demonstrate how to apply the Code correctly.

Instructor: Dr.-Ing. Dirk Kölbl (ANIS/Lead Auditor)
contact: koelbl@cis-inspector.com



P15 Wed.-Thu., 13-14 July 2022 € 970
ASME NQA-1: Nuclear Quality Assurance

A complete overview in two days. We start with 10CFR50 and 10CFR21, then move on to supply chain qualification and NQA-1 implementation. Safety classification, the 18 elements of NQA-1, qualification of inspection and test personnel, lead auditors, design verification, computer programs, commercial grade dedication and ASME's NQA-1 certificate are explained in detail. Several examples and workshops and are included to provide for easier implementation.

The course offers participants from the fields of quality assurance, project management, manufacturing, sales, purchasing and customer service both the necessary basics and sound guidance for implementation.

Instructor: Dr.-Ing. Dirk Kölbl (ANIS/Lead Auditor)
contact: koelbl@cis-inspector.com