

#1 Mon., 9th October 2017 € 500 ASME Code – Not a Closed Book – Introduction

This course will provide a complete overview of the ASME Boiler and Pressure Vessel Code, the ASME Piping Codes and the referenced Standards. We will begin with the jurisdictional rules at the location of installation for the USA, Canada, and other locations, discuss the scopes of all Construction Codes and the function of all reference Codes. ASTM and ASME Code material specifications, requirements, certificates and properties will complement the topics covered by the course.

- ASME Code – Key to Export
- ASME, National Board, Authorized Inspection Agency & Authorized Inspector
- ASME Certification
- ASME Material, ASTM Specifications und EN Materials
- ASME Section I, Power Boilers
- ASME Section IV, Heating Boilers
- ASME Section VIII, Divisions 1, 2 & 3, Pressure Vessels
- ASME Section III, Nuclear Components
- ASME Piping Codes B31.1 & B31.3
- ASME Section IX, Welding
- ASME Section V, Nondestructive Examination
- NBIC – National Board Inspection Code
- ASME Code under the PED

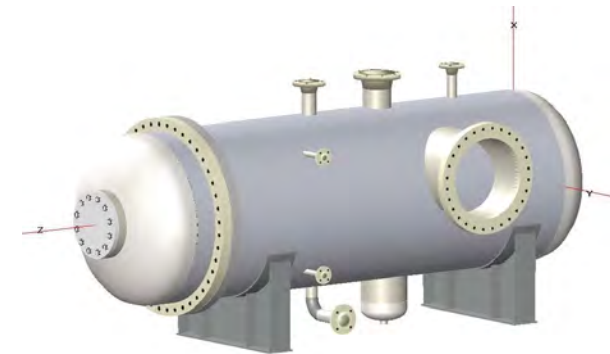
Instructors:
Salih Eraktan (saliheraktan@codeteknikkontrol.com)
Volkan Palabiyik (volkan.palabiyik@acis.com.tr)

#2 Tue., 10th October 2017 € 500 ASME Code Section I & ASME B31.1 Power Boilers & Power Piping

This course provides a detailed introduction to ASME Code Section I for Power Boilers and ASME B31.1 for Power Piping. You will receive comprehensive insight into the requirements regarding quality control, design, fabrication, material, examination, inspection, testing, overpressure protection and assembly of power boilers and piping. The Code-compliant preparation of Manufacturer's Data Reports and stamping round off the list of topics.

- Introduction to ASME Code Section I and B31.1
- Structure and Scope of Section I and B31.1—Boiler Proper, Boiler External Piping, Non-Boiler External Piping
- Duties and Responsibilities of Manufacturer, User, Inspector
- Design conditions and criteria
- Drum-Type Boiler vs. Forced-Flow Steam Generator
- Design formulas for Boiler Proper, BEP, NBEP
- MAWP, design pressure, design temperature, etc.
- Design criteria for different piping systems—feedwater, steam line, blow-off, blow-down, etc.,
- Requirements for overpressure protection
- Materials (ASME/ASTM) - selection, ordering, certification
- Fabrication, welding, assembly, erection
- Nondestructive examination and personnel qualification
- Inspection and testing

Instructors:
Salih Eraktan (saliheraktan@codeteknikkontrol.com)
Volkan Palabiyik (volkan.palabiyik@acis.com.tr)



#3 Wed.-Thu., 11th-12th October 2017 € 1000 ASME Code Section VIII, Division 1 Workshop – Design Calculation of Pressure Vessels

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. The participants will have the opportunity to perform their own calculations with the assistance of an experienced design engineer who is also an Authorized Inspector.

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.

- 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 ASME Code Section II
- Joint categories, types and efficiency factors E and the corresponding scope of nondestructive 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)
- Design by 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:
Michael Frohnert (frohnert@cis-inspector.com)

#4 Fri., 13th October 2017 € 500 ASME Code – Section III and NQA-1 – Nuclear Codes

This course presents the complete range of ASME Nuclear Codes - all in one day! When you are looking for a comprehensive overview of ASME Nuclear Codes and Standards, this course should be your choice.

Your highly experienced Instructor will first introduce the legal background and then proceed to the philosophy of nuclear Quality Assurance in 10CFR50 Appendix B and ASME NQA-1. Topics such as supply chain management and the ASME nuclear safety philosophy will receive special attention. The scope and use of ASME Section III Divisions 1, 2, 3 and 5 will be introduced as well as specific vocabulary, terms and interfaces. Selected paragraphs, typical requirements and several peculiarities will complete the picture. You will learn how to apply ASME Section III entirely, or in part, you will be able to identify the applicable rules and their consequences. A short guide to Section XI for Inservice Inspection will round off the day.

- Quality Assurance and Safety Culture
- Laws and regulations 10CFR50, 10CFR21
- 10CFR50 Appendix B Quality Assurance
- 18 Elements of QA
- Can ISO 9001 be used?
- ASME NQA-1
- Quality Manual and Procedures
- Training and Qualification of Personnel
- What are activities affecting Quality?
- Design Process
- Material Control
- Audits and Conditions adverse to Quality
- ASME Code Sections
- ASME Section III, Divisions 1, 2, 3, 5
- Scope of Classes 1, 2, 3, MC, CS, SC, TC
- ASME Certifications in Section III
- Nuclear Material, Source Material, Unqualified Source Material
- Qualification of Suppliers
- Design Specification, Design Report, Registered Professional Engineer
- Fabrication requirements
- Nondestructive Examination
- Pressure Test
- Nameplate and Records

Instructor:
Dr. Dirk Kölbl (koelbl@cis-inspector.com)



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



Can't make it to Istanbul?
Then come and join us in Brussels, Zurich or Berlin.

#5 Fri., 13th October 2017 € 500 ASME Code Section IX – Welding

In the international plant engineering business ASME Code Section IX is the most often used standard for the qualification of welding procedures, welders and welding operators as well as brazing procedures and brazers. This workshops exclusively covers the topic of welding and familiarizes the participants with the qualification of welding procedures and welders as required by ASME Code Section IX. By means of practical exercises the basic requirements of ASME Code Section IX will be demonstrated.

During the workshop 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). The participants are invited to take an active part in this workshop.

Key Points:

- structure and application of ASME Code Section IX
- basic requirements regarding the qualification of welding procedures and welders
- documentation: Procedure Qualification Record (PQR), Welding Procedure Specification (WPS), Welder Performance Qualifications (WPQ) and Welding Operator Performance Qualification (WOPQ)
- scope and variables of different welding procedures
 - "essential variables" and "nonessential variables"
 - impact test requirements and "supplemental essential variables"
- qualification of welders and welding operators
 - manual and semiautomatic welding
 - machine and automatic welding
- scope and variables for welders
- exercises:
 - reviewing of Procedure Qualification Record (PQR)
 - reviewing of Welding Procedure Specification (WPS)
 - reviewing of Welder Performance Qualifications (WPQ) and Welding Operator Performance Qualification (WOPQ)
 - preparing of Procedure Qualification Record (PQR)
 - preparing of Welding Procedure Specification (WPS)
 - preparing of Welder Performance Qualifications (WPQ) and Welding Operator Performance Qualification (WOPQ)

Instructors:
Salih Eraktan (saliheraktan@codeteknikkontrol.com)
Volkan Palabiyik (volkan.palabiyik@acis.com.tr)

Registration

For online registration go to:

www.cis-inspector.com/istanbul

For e-mail or fax registration please contact one of the registration centers below:

Turkey E-Mail: saliheraktan@codeteknikkontrol.com

Germany Fax: +49 201 74 72 75-29

E-Mail: service@cis-inspector.com

company	
name	
street	
ZIP, city	
country	
phone	FAX
E-Mail	
signature	

Please mark the seminars you want to attend.

<input type="checkbox"/>	#1	9 th October 2017 ASME Code – Introduction	€ 500
<input type="checkbox"/>	#2	10 th October 2017 ASME Code Section I & B31.1	€ 500
<input type="checkbox"/>	#3	11 th -12 th October 2017 ASME Code Section VIII, Division 1	€ 1000
<input type="checkbox"/>	#4	13 th October 2017 ASME Code Section III and NQA-1 – Nuclear	€ 500
<input type="checkbox"/>	#5	13 th October 2017 ASME Code Section IX – Welding	€ 500

You will receive a **€ 100** discount for the second and any further booked seminar!

Training Venue



Following the very successful courses in 2016, **Code & ACIS** in Turkey and **CIS GmbH** as part of the Authorized Inspection Agency **TÜV Thüringen e.V.** in Germany will conduct in cooperation with the **Yeditepe University Istanbul** the

ASME Code Week Istanbul 2017

covering the following topics:

- ASME Code – *General Introduction*
- ASME Code Section I & ASME B31.1
Power Boilers and Power Piping
- ASME Code Section VIII, Division 1 Workshop
Design Calculation of Pressure Vessels
- ASME Code Section III & NAQ-1 – *Nuclear*
- ASME Code Section IX – *Welding*

The **ASME Code Week Istanbul 2017** will take place at the Yeditepe University in Istanbul, Turkey from 9th-13th October 2017.



Yeditepe University
Kayışdağı Kampüsü Ataşehir
34755 Istanbul - Turkey

The seminar language is English

Services

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 / WPQ / 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, tailor-made for your projects

Design Calculations and Reviews

- ASME Code design calculations for pressure vessels, power boilers, piping, fittings, etc.
- Design calculations in line with various international Codes & Standards (AS1210, BS5500, GOST, 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 (Canada Registration Number, CRN)
- Design calculations issues
- Steel structures according to American Welding Society D1.1



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ASME Code Week
Istanbul 2017
October 9th-13th