PetroSync Global Pte Ltd | PetroSync | PetroSync

PETROSYNC
Synchronize Your Skill and Knowledge

ASME Section I Power Boilers

Enhance Your Power Boiler Knowledge and Skill by Learning Practical Things From The Expert !

23rd - 25th March 2020 at Kuala Lumpur, Malaysia | 22nd - 24th June 2020 at Bandung, Indonesia
12th - 14th October 2020 at Kuala Lumpur, Malaysia



Petrosync Distinguished Instructor
Mandar Mulay

- 20 years hands on experience in design and integrity assessment of Piping Systems, Reactors & Storage Tanks, and Pressure Vessels Codes, Power Boilers, Heat Exchanger.
- Well conversant with the major industry codes & standards such as ASME PCC-2, ASME Sec. I, ASME B 31.1, B31.3 , B31.4 and B31.8, ASME Sec VIII, BS-5500, TEMA, API -650, IS 803, API 579 etc..
- He has conducted Training Courses (ASME Sec I, ASME B 31.3 Piping Codes, ASME Sec. VIII, API 579, ASME PCC-2 Repair practices, and Heat Exchanger Design Operations & Maintenance) in Saudi Arabia, Qatar, Bahrain and UAE for engineers from companies like Saudi Aramco, SABIC group of Companies, Qatar Petroleum, ADNOC, BAPCO, Gulf Petrochemicals

Course Objectives

- Enhance your knowledge and understanding of the requirements for design and construction of power boilers in accordance with Section I of the ASME Boiler & Pressure Vessel Code.
- Familiarize the participants with the concepts and technical terms of the code.
- Provide clarity on the basic concepts and design fundamentals in the process of construction of boilers.

Petrosync Quality

Limited Attendees
The course has limited seats to ensure maximum learning and experience for all delegates.

Certificate of Attendance
You will receive a Certificate of Attendance bearing the signatures of the Trainer upon successful completion of the course. This certificate is proof of your continuing professional development.

Interactive Training
You will be attending training designed to share both the latest knowledge and practical experience through interactive sessions. This will provide you with a deeper and more long-term understanding of your current issues.

High Quality Course Materials
Printed course manual will provide you with working materials throughout the course and will be an invaluable source of reference for you and your colleagues afterward. You can follow course progress on your laptop with soft copies provided.

Supported by

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ASME Section I - Power Boilers

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Course Overview

ASME codes and standards are the most widely used in the world for the design, operation, maintenance, and repair of power boilers, pressure vessels and nuclear facilities.

This course will provide the participant with a detailed knowledge of the responsibilities of personnel involved in the design, fabrication and examination of new power boiler plant components and new construction activity as defined by Section I of the ASME Boiler & Pressure Vessel Code.

The program also gives an insight and information about other Sections of ASME Boiler & Pressure Vessel codes. The participants will be explained the mechanics of adopting and applying the code rules and design formulae for construction of boilers.

Delegates Will Learn

- The scope and purpose of the Sections of the ASME Boiler & Pressure Vessel Code
- The rules and requirements in Section I for the design of power boilers
- The application of Section II Materials and their allowable stresses
- The basic rules for fabrication, examination and testing (hydrotest)
- The process for quality control and certification

Specially Designed For

Ideally suited for Piping/ Boiler engineers and designers, Plant engineers who need an understanding of the requirements for compliance to the code for piping/ boiler design and analysis, and testing. Managers, Engineers, Supervisors, and Plant operation personnel who work in the Power Plants, Refineries, Petrochemical plants, and other process industries will find this course immensely useful.

HYBRID TRAINING SOLUTIONS

FOCUS TRAINING • REDUCE COST • ENHANCED RESULTS

Over the years, there has been a growing demand for hybrid training programs. It is an excellant option to maximize your training dollar for your specific training needs. We make it possible to run a training program that is customized totally to your training needs at a fraction of an in-house budget!

If you like to know more about this excellent program, please contact us on +65 3159 0800 or email general@petrosync.com

IN-HOUSE SOLUTIONS

SAVE COST • IMPROVE PERFORMANCE • REDUCE RISK

PetroSync understands that in current economic climate, getting an excellent return on your training investment is critical for all our clients. This excellent training can be conducted exclusively for your organization. The training can be tailored to meet your specific needs at your preferred location and time. We will meet you anywhere around the globe.

If you like to know more about this excellent program, please contact us on +65 3159 0800 or email general@petrosync.com

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Course Agenda

Day 1 : Introduction and Materials

- Introduction to the ASME Boiler Pressure Vessel Code
- Organization and Scope of Section I
- Difference between Boiler Proper and Boiler External Piping.
- Valves and valve ratings; Safety Valves
- Code Cases, Inquiries, Interpretations, Code Effective dates, & Revision
- Materials of Section I Construction (as per ASME Section-II)
- Material Test Reports
- **Case studies**

Day 2 : Design and Fabrication

- Design temperature and pressure for boilers and piping
- Loads considered by Section I
- Allowable Stress in ASME Section II Part D
- Design Methods (Thickness calculations for major components)
- Qualification of Weld Procedures; Selection of Weld Procedures for construction
- Weld size requirements of Section I; Nozzle and other opening rules for welding
- Post Weld Heat Treatment
- Repairs to welds
- **Case studies**

Day 3: Non-Destructive Examination, Quality Systems

- Nondestructive Examinations requirements
- Visual Inspection Requirements
- Hydrostatic testing
- Code certification by stamping and data reports
- ASME Code edition applicable to repairs and alterations
- Study and discussion on a typical boiler specification.
- Coordination of boiler engineer with other discipline engineers such as piping/ instruments/ etc.
- Queries and answers.
- **Case studies**

WHY YOU SHOULD ATTEND PETROSYNC'S EVENTS

- To ensure that all objectives of the course matches yours, all PetroSync programs are developed after intensive and extensive research within the industry
- PetroSync programs focus on your immediate working issues to ensure that you are able to apply and deliver immediate results in real work situations
- Application and implementation of industry knowledge and experience are the drivers for our course design, not theoretical academic lectures
- PetroSync training focuses on practical interactive learning tools and techniques including case studies, group discussions, scenarios, simulations, practical exercises and knowledge assessments during the course. Invest a small amount of your time to prepare before attending the course to ensure maximum learning
- PetroSync follows a rigorous selection process to ensure that all expert trainers have first-hand, up-to-date and practical knowledge and are leaders of their respective industrial discipline

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Petrosync Distinguished Instructor

Mandar Mulay

Mandar Mulay has about **20 years** hands on experience in design and integrity assessment of **Piping Systems, Reactors** & **Storage Tanks, Pressure Vessels, Power Boiler, and Heat Exchanger**. He is well conversant with the major industry codes & standards such as **ASME Sec. 1, ASME B 31.1, B31.3 , B31.4 and B31.8, ASME Sec VIII, ASME PCC-2, BS-5500, TEMA, API -650, IS 803, API 579 etc**.

Major projects closely associated with, in his professional career so far are, **Qatar Chemicals, Shell, Castrol India, Reliance Industries, Cargill Foods USA**, etc.

His proficiency in **Piping Systems, Reactors & Storage Tanks, and Pressure Vessel Codes, Power Boiler, and Heat Exchanger** enables him to trace the similarities and differences of these codes. He also actively involved as Instructor for programs on the subjects of **API/ASME/TEMA codes, Integrity Assessment, Fitness for Service,** etc.

Along with his career in Engineering and Design Department in a multinational company at a very senior post for the last 20 years, he is also visiting faculty to a well known Engineering College in India for their P.G. Courses in Piping Design and Engineering.

Apart from being visiting faculty, He has also conducted several Training Courses (**ASME Sec. 1**, **ASME Sec. VIII, ASME B 31.3 Piping Codes , API 579 FFS code, ASME PCC-2 Repair practices, and Heat Exchanger Design Operations & Maintenance**) in Saudi Arabia, Qatar, Bahrain and UAE for engineers from companies like Saudi Aramco , SABIC group of Companies, Qatar Petroleum, ADNOC, BAPCO, DEWA, Gulf Petrochemicals etc. He has already conducted many times the training courses in API 579, where the participants rated him "Excellent" for these courses.

PROGRAM SCHEDULE

08:10	Registration (Day1)
08:10 – 10:00	Session I
10:00 – 10:15	Refreshment & Networking Session I
10:15 – 12:30	Session II
12:30 – 13:30	Lunch
13:30 – 15:00	Session III
15:00 – 15:15	Refreshment & Networking Session II
15:15 – 16:00	Session IV
16:00	End of Day

*Schedule may vary for each training

INVESTMENT PACKAGES

Please checklist the package that you are attending!

	ASME Sec I - Power Boilers Schedules	Price
☐	23rd - 25th March 2020 at Kuala Lumpur, Malaysia	USD 2,195
☐	22nd - 24th June 2020 at Bandung, Indonesia	USD 2,195
☐	12th - 14th October 2020 at Kuala Lumpur, Malaysia	USD 2,195

** Price is nett excluding Withholding Tax if any and will be quoted separately. Please send us the withholding tax payment receipt.*

** Prices include lunches, refreshments and training materials.*

DELEGATE DETAILS

1st Delegate Name _____ Mr ☐ Mrs ☐ Ms ☐ Dr ☐ Others ☐

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

2nd Delegate Name _____ Mr ☐ Mrs ☐ Ms ☐ Dr ☐ Others ☐

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

3rd Delegate Name _____ Mr ☐ Mrs ☐ Ms ☐ Dr ☐ Others ☐

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

*Please fill all the details including mobile number. This help us to contact participant if they are late in class or if there is any urgent update (through whatsapp/call)

INVOICE DETAILS

Attention Invoice to: _____

Direct Line Number: _____ Fax: _____

Company: _____ Industry : _____

Address: _____ Postcode: _____

Country: _____ Email: _____

Please note:
- Indicate if you have already registered by Phone ☐ Fax ☐ Email ☐ Web ☐
- If you have not received an acknowledgement before the training, please call us to confirm your booking.

PAYMENT METHODS

☐ By Credit Card :

Please debit my credit card: ☐ Visa ☐ MasterCard ☐ AMEX Security Code: ☐☐☐

Card Number: ☐☐☐☐–☐☐☐☐–☐☐☐☐–☐☐☐☐ Expiry Date: ☐☐☐☐

Name printed on card: _____

☐ By Direct Transfer : Please quote invoice number(s) on remittance advice

PetroSync Global Pte Ltd Bank details:
Account Name: PetroSync Global Pte Ltd
Bank Name : DBS Bank Ltd
Bank Code : 7171 • Bank Swift Code : DBSSSGSGXXX • Branch code : 288
Account No : • SGD : 288-901898-0 • USD : 0288-002682-01-6
Bank Address : 12 Marina Boulevard, Level 3. Marina Bay Financial Centre Tower 3. Singapore 018982

All bank charges to be borne by payer. Please ensure that PetroSync Global Pte Ltd receives the full invoiced amount.

PROGRAMME CONSULTANT

Name : Cay Aagen
Email : registration@petrosync.com
Phone : +65 3159 0800
Fax : +65 6826 4322

TERMS AND CONDITIONS

DISCLAIMER

Please note that trainers and topics were confirmed at the time of publishing; however, PetroSync may necessitate substitutions, alterations or cancellations of the trainers or topics. As such, PetroSync reserves the right to change or cancel any part of its published programme due to unforeseen circumstances. Any substitutions or alterations will be updated on our web page as soon as possible.

DATA PROTECTION

The information you provide will be safeguarded by PetroSync that may be used to keep you informed of relevant products and services. As an international group we may transfer your data on a global basis for the purpose indicated above. If you do not want us to share your information with other reputable companies, please tick this box ☐

CANCELLATION POLICY

Delegates who cancel after the training is officially confirmed run by email, are liable to pay the full course fee and no refunds will be granted. You may substitute delegates at any time as long as reasonable advance notice is given to Petrosync.

In the event that PetroSync cancels or postpones an event for any reason and that the delegate is unable or unwilling to attend in on the rescheduled date, you will receive a credit voucher for 100% of the contract fee paid. You may use this credit voucher for another PetroSync to be mutually agreed with PetroSync, which must occur within a year from the date of postponement.

PetroSync is not responsible for any loss or damage as a result of the cancellation policy. PetroSync will assume no liability whatsoever in the event this event is cancelled, rescheduled or postponed due to any Act of God, fire, act of government or state, war, civil commotion, insurrection, embargo, industrial action, or any other reason beyond management control.

CERTIFICATE OF ATTENDANCE

80% attendance is required for PetroSync's Certificate of Attendance.

DETAILS

Please accept our apologies for mail or email that is incorrectly addressed.
Please email us at registration@petrosync.com and inform us of any incorrect details. We will amend them accordingly.

Find us on Social Media:

PetroSync Global Pte Ltd
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CHARGES & FEE(s)

- For Payment by Direct TelegraphicTransfer, client has to bear both local and oversea bank charges.

- For credit card payment, there is additional 4% credit card processsing fee.

COURSE CONFIRMATION

I agree to PetroSync's terms & conditions,payment terms and cancellation policy.

Signature : _____

Date : _____

Payment Terms : Payment is due in full at the time of registration. Full payment is mandatory for event attendance.