

ASME PCC-2 (Repair of Pressure Equipment)

Enhance Your Repair of Pressure Equipment Knowledge and Skill by Learning Practical Things From The Expert !

24th - 26th February 2025 at Kuala Lumpur, Malaysia | 02nd - 04th July 2025 at Kuala Lumpur, Malaysia
15th - 17th September 2025 at Bandung, Indonesia



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

- ▶ Familiarize participants with the concepts and technical terms of the standard
- ▶ Know the basic concepts of the standard and their design fundamentals
- ▶ Troubleshoot to resolve various in-service issues.
- ▶ Know the design philosophy of pressure parts
- ▶ Understand the in-service problems in pressure equipment and piping
- ▶ Learn the maintenance aspects in these equipment.
- ▶ Get introduced to all the repair techniques.(temporary and permanent)
- ▶ Discover the fabrication requirements, assembly and welding requirements.
- ▶ NDT and testing procedures for repaired equipment and piping

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.

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Course Overview

ASME PCC-2, being a relatively new standard and fairly popular, has proved to be useful worldwide for repair of pressure equipment and piping. Many large companies have adopted these procedures and incorporated them in their company specifications.

The intent behind this 3 day training program is to introduce this standard to all attendees and understand all the basic concepts and philosophy, as well as the various procedures for repair of pressure equipment and piping. We also will discuss the limitations and advantages/ disadvantages of all the procedures mentioned in the standard.

The correlation of this standard with other in-service codes and standards such as API-510/ 570/ 579/ 580 will also be understood and clarified to all attendees.

This course will not only be useful to maintenance engineers, but equally for all supporting disciplines such as design, operations and inspection engineers. It will help all engineers to collectively troubleshoot and resolve problems/ issues at site related to temporary/ permanent repairs of equipment and piping.

Specially Designed For

The course is designed for, but not limited to maintenance engineers, and design, operations and inspection professionals who are involved in equipment such as pressure vessels, heat exchangers, process columns, drums, piping, etc .

- ▶ Design Engineers / Managers
- ▶ Mechanical Engineers / Managers
- ▶ Maintenance Engineers / Managers
- ▶ QAQC Engineers / Managers
- ▶ Inspection Engineers / Managers
- ▶ Reliability Engineers / Managers

PROGRAM SCHEDULE

08:00	
08:00 – 10:00	Session I
10:00 – 10:15	
10:15 – 12:30	Session II
12:30 – 13:30	Lunch Break
13:30 – 15:00	Session III
15:00 – 15:15	
15:15 – 16:00	Session IV
16:00	End of Day

*Schedule may vary for each training



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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Course Agenda

Day 1 :

- Introduction and Overview of ASME PCC-2
- Scope, Organization, and Intent
- Applicability and limitations of repair methods covered by ASME PCC-2
- Choosing correct repair technique for given defects
- Detailed Repair methods and Inspection techniques
- Welded Repairs
- Butt-Welded Insert Plates in Pressure Components
- Repair procedure and NDT of insert plate repair
- Weld Overlay to Repair Internal Thinning
- Pre-qualified repairs
- Burst testing method
- Welded Leak Box Repair
- Fabrication of Welded box
- Examination and testing

Day 2 :

- Full Encirclement Steel Reinforcing Sleeves for Piping
- Type A and Type B sleeves and their applicability
- Weld Buildup, Weld Overlay, and Clad Restoration
- Examination and Testing
- Fillet Welded Patches
- Alternatives to Postweld Heat Treatment
- Alternatives to Traditional Welding Preheat
- Threaded or Welded Plug Repairs
- Flaw Excavation and Weld Repair
- Mechanical Repairs (Non-welding repairs)
- Mechanical Clamp Repair
- Freeze Plugs
- Damaged Threads in Tapped Holes

Day 3:

- Inspection and Repair of Shell and Tube Heat Exchangers
- Inspection Tube count
- Tube plugging
- Mechanical Plug
- Friction Plugs
- Examination and Testing
- Hot bolting
- Half Bolting
- Flange Repair and Conversion
- Pipe Straightening or Alignment Bending
- Pressure and Tightness Testing of Piping and Equipment
- Pneumatic Testing-Do's and Don'ts
- Nondestructive Examination in Lieu of Pressure Testing for Repairs and Alterations
- Relevance of ASME PCC-2 Standard with API 510 and API 570 Codes
- 8 Nos of case studies/ exercise demonstrating use of every important topic from the standard. (relevant case study will be taken up after completion of the chapter daily)

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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, and 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 and 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.

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

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 excellent 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

INVESTMENT PACKAGES

Please checklist the package that you are attending!

	ASME PCC-2 (Repair of Pressure Equipments) SCHEDULES	LOCATION	PRICE
<input type="checkbox"/>	24 th - 26 th February 2025	Kuala Lumpur, Malaysia	USD 2,995
<input type="checkbox"/>	02 nd - 04 th July 2025	Kuala Lumpur, Malaysia	USD 2,995
<input type="checkbox"/>	15 th - 17 th September 2025	Bandung, Indonesia	USD 2,995

* All prices are subject to change without notice and are not guaranteed, except that prices for an order that have been accepted by PetroSync is not subject to change after acceptance.

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

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

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 : DBSSSGSXXX • Branch code : 288

Account No : 0288-002682-01-6-022 (USD)

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.

COURSE CONFIRMATION

I agree to PetroSync's 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.

PROGRAMME CONSULTANT

Name : Cay Aagen

Email : registration@petrosync.com

Phone : +65 3159 0800

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 or location (classroom / Virtual). 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 In the event that PetroSync cancels or postpones or change the trainer or change the training location (classroom / virtual) of 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

 PetroSync

 PetroSync

CHARGES & FEE(S)

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

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