

API 570 Piping Inspector Course

Be the first
API 570 Inspector
in 2023!

Sculpt Your Skills for the Inspection, Repair, Alteration, and Rerating of Oil & Gas In-Service Piping Systems!

19th - 23rd June 2023 Virtual Training at 09:00 AM - 17:00 PM (GMT +8)



INSTRUCTOR

Uday B. Kale (M. Eng. Mechanical)

Technical Director
KUB Quality Services

SUMMARY OF PROFESSIONAL ACHIEVEMENT

- API 570 - Authorized Piping Inspector - Certificate #38157
- API 510 - Authorized Pressure Vessel Inspector - Certificate #26785
- API 653 - Authorized Above storage Tank Inspector-Certificate #27926
- API SIFE - Source Inspector Fixed Equipment - Certificate #52837
- API SIRE - Source Inspector Rotating Equipment - Certificate #63573
- API 580 - Risk Based Inspection - Certificate #50553
- API 1169 - Pipeline Construction Inspector - Certificate #73409
- Certified Welding Inspector (AWS) Certificate #00071941
- CSWIP 3.1 Certificate #58489
- ACCP Professional Level III (RT, UT, MT, VT) ASNT ID - 83835
- RT 2 - Certified Site Incharge (BARC, India)
- ASNT NDT Level III (RT, UT, MT, VT, PT, ET, LT), ASNT ID - 83835
- EN 473 (ISO 9721) Level 3 (RT, UT, MT, PT, VT)

PARTIAL CLIENT LIST

- The Middle East:
Qatar Petroleum, QAFAC, ADCO, ADGAS, ADMA, GASCO, Banagas, Technip (Bahrain), Equate Petrochemicals Company, Al Jubail Fertilizer Company, TUV Akadamie Middle East (UAE, Saudi Arabia and Qatar)
- Africa: BP - GUPCO (Egypt), Inspection and Test Nigeria Ltd
- India & Asia: Oil India Limited, Tata, Dacon Inspection Ltd
- Europe: Rosen Europe (The Netherlands)

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ATTEND THIS INTENSIVE COURSE TO MASTER:

- API 570: Inspection methodologies, remaining life calculations, degradation mechanisms, repair & re-rating of in-service piping system and relations to ASME codes (1.5 day)
- ASME Section V: Principles and application of Non-Destructive Examination (0.5 day)
- ASME section IX: Welding & brazing requirements and procedures (0.5 day)
- ASME B31.3: Design review, welding & heat treatment, inspection, leak testing of process piping (1 day)
- ASME B16.5: Design & repair of pipe flanges and flanged fittings (0.5 day)
- API RP 571: Damage Mechanisms affecting fixed equipment in refineries, eg. fractures, fatigue, corrosion, sulfidation, MIC, HTTA etc (0.5 day)
- API 574: Inspection practices for piping system components (¼ day)
- API RP 577: Welding inspection and metallurgy recommended practices (¼ day)
- API RP 578: Material verification program for new and existing alloy piping systems (¼ day)

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.

→ PROGRAM OVERVIEW

"To improve management control of process unit inspection, repair, alteration and rerating; and to reduce the potential for inspection delays resulting from regulatory requirements."
 -- API.org on API 570 Certification

American Petroleum Institute (API)

Piping Inspection Code 570 Inspection, Repair, Alteration, and Rerating of In-Service Piping Systems is recognized and used with confidence worldwide. The Piping Inspector Certification Program (PICP) is developed for the continual high level of efficiency and safety through emphasizing professional credibility and process integrity.

Process piping system is one of the critical production assets in process industry. Organizations recognize the need to maintain authorized inspection agency and technically assess qualified piping engineers and inspectors to ensure facilities are at top performance. Therefore, API 570 certification is one of the most sought after professional competency that enables inspectors to be actively involved in the improvement of industry & environmental health and safety performance, reinforcement management control, compliance of inspection capabilities.

This 5 day Piping Inspector course is based on API 570/574, API RP 577/578, ASME B16.5/ B31.3 and ASME BPVC Section V/ Section IX. It is to promote the recognition of fitness-for-service concepts to evaluate in-service degradation of piping system. With Mr. Uday's extensive involvements in the facilities inspection, as well as his practical coaching and mentoring approaches, this course not only prepare the candidates to pass API 570 examination with confident, it will also advance the appreciation of piping facilities and thus to broaden the technical knowledge base in order to avoid unplanned shutdown and reduce expenses!

→ AUDIENCE

This course will specifically benefit Engineers, Supervisors, and Managers from the following disciplines:

- Mechanical Engineering
- Inspection
- Maintenance & Operations
- Technical & Engineering
- QAQC

and technical personnel with 2-3 years of experience in the management and planning of inspection and maintenance activities of piping system at upstream oil & gas facilities, refineries, process plants and petrochemical facilities.

Each attendee must bring a **Laptop computer** with Microsoft operating system and **Scientific Calculator**

→ WHY YOU SHOULD ATTEND

- 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

→ 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 on +65 3159 0800 or email general@petrosync.com

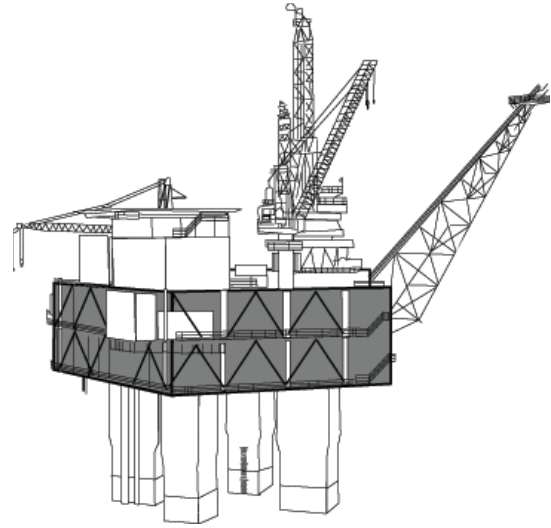
→ PROGRAM SCHEDULE

09:00	Registration (Day1)
09:10 – 11:00	Session I
11:00 – 11:15	1 st Tea Break
11:15 – 13:30	Session II
13:30 – 14:30	Lunch Break
14:30 – 16:00	Session III
16:00 – 16:15	2 nd Tea Break
16:15 – 17:00	Session IV
17:00	End of Day

**Schedule may vary for each training*

API 570

Piping Inspector Course



DAY-1

BENCH-MARK QUIZ INTRODUCTION TO API 570 CERTIFICATION

ASME B 31.3 (Process Piping)

- Scope and applicability
- Service/Fluid Classification
- Joint Quality Factors
- Allowable stresses
- Design for Internal Pressure
- Design of permanent blanks
- Impact testing for Low temperature service
- Acceptance of Impact test results
- Welding requirements-Preheat Temperatures
- Post Weld Heat Treatment
- Hardness Testing after PWHT
- Inspection and testing
- Non Destructive Examination Requirements
- Acceptance Criteria
- Leak testing-Hydrostatic
- Leak testing-Pneumatic
- Precautions during Pneumatic test
- Service leak test
- Thermal Expansion of Piping-Table C1

ASME B16.5 (Pipe Flanges and Flanged Fittings)

- Overview of pipe flanges and flanged fittings

DAY-2

ASME B16.5 (Pipe Flanges and Flanged Fittings)

- Scope
- Pressure Temperature Ratings
- Materials
- Dimensions
- System pressure Test

API 570 (Inspection, Repair, Alteration, and Rerating of In-Service Piping Systems)

- Scope & Definitions
- Owner/user inspection organization
- API authorized piping inspector qualification and certification
- Inspection and testing practices
- Risk-based inspection
- Preparation for inspection
- Inspection for specific types of corrosion and cracking
- Types of inspection and surveillance
- Thickness measurement locations
- Thickness measurement methods
- Inspection of welds in-service
- Inspection of flanged joints.

DAY-3

API 570 (Inspection, Repair, Alteration, and Rerating of In-Service Piping Systems)

- Frequency and extent of inspection
- Piping service classes
- Inspection intervals
- Extent of visual external and cui inspections
- Inspection data evaluation, analysis, and recording
- Corrosion rate determination
- Maximum allowable working pressure determination
- Repairs, alterations, and rerating of piping systems
- Welding and hot tapping
- Inspection of buried piping
- Types and methods of inspection
- Frequency and extent of inspection
- Repairs to buried systems



DAY-4

ASME Boiler and Pressure Vessel Code Section IX (Welding and brazing Qualifications)

- Review of a WPS and PQR
- Determine if WPS and PQR are in compliance with ASME Sec. IX
- Essential and Nonessential Variables
- Determine that the number and type of mechanical tests are correct tests
- Determine whether the results are acceptable

ASME Boiler and Pressure Vessel Code Section V (Non-Destructive Examination)

- Article 1, general requirements:
- Article 2, radiographic examination
- Article 6, liquid penetrant examination
- Article 7, magnetic particle examination (yoke and prod techniques only)
- Article 9, visual examination
- Article 10, leak testing

API Recommended Practice 574

- Inspection of piping, tubing, valves, and fittings

DAY-5

API RP 571 (Damage Mechanisms in the Refining Industry)

- Brittle Fracture
- Thermal Fatigue
- Erosion/Erosion Corrosion
- Mechanical Fatigue
- Vibration Induced Fatigue
- Atmospheric Corrosion
- Corrosion Under Insulation (CUI)
- Boiler Water Condensate Corrosion
- Flue Gas Dew Point Corrosion
- Microbiological Induced Corrosion (MIC)
- Soil Corrosion
- Sulfidation
- Chloride Stress Corrosion Cracking (CISCC)
- Caustic Stress corrosion Cracking (Caustic Embrittlement)
- High Temperature Hydrogen Attack (HTTA)



API Recommended Practice 577

- Welding inspection and metallurgy

API Recommended Practice 578

- Material verification program for new and existing alloy piping systems

API 570 - Piping Inspector Course Virtual Training

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Uday B. Kale is a Post Graduate Mechanical Engineer with experience in Inspection, Welding and NDE/NDT projects for last 18 years. Currently he is the technical director of M/s KUB Quality Services. He has involved in inspection, welding and NDT projects in the Middle East, Africa and India on offshore production platform and petrochemical refineries. He has vast experience in Manufacturing and In Service Inspection of Static Equipment used in Oil and Gas.

Mr. Uday is very well-versed in international Codes and Standards. He performed and led the shutdown teams in performing NDE, internal and external inspection of equipments in central processing plant, ammonia plant, FCCU, SRU, SWS and amine treating units for Code stamp facilities of ADCO, Qatar Petroleum, Oil India, QAFAC, Banagas, Al Jubail Fertilizer Company, and other various units of Refineries, Petrochemicals, Gas Plant and Fertilizer Plant and so on.

He was a lead API inspector for various shutdown and Turnaround. He was also the appointed plant inspector for BP (GUPCO) in asset integrity management, who took charge of 9 offshore production complex, 75 Satellites and Onshore process units involving Close Visual Inspection of piping, equipments, NDT co-ordination, Baseline and Corrosion Monitoring. Furthermore, as an Inspector in GASCO OAG pipeline project, he conducted and witnessed Ultrasonic Examination of first 50 production weld joints of pipeline done by PWT (Pipe Welding Technology, GMAW).

PARTIAL CLIENT /PROJECT LIST

- Qatar Petroleum
- BP - GUPCO (Egypt)
- Oil India Limited
- ADCO (Abu Dhabi)
- ADGAS (Abu Dhabi)
- ADMA (Abu Dhabi)
- GASCO (Abu Dhabi)
- QAFAC
- Rosen Europe (The Netherlands)
- Banagas (Bahrain)
- TATA (India)
- Al Jubail Fertilizer Company
- Technip (Bahrain)
- Equate Petrochemicals (Kuwait)
- TUV Akademie Middle East (UAE, Saudi Arabia and Qatar)
- Inspection and Test Nigeria Ltd
- Dacon Inspection Ltd
- HBJ pipeline up-gradation projects

With his extensive involvement in various projects, Mr. Uday is also an enthusiastic and knowledgeable mentor, who has been a faculty in training, examination, qualification and certification of API 510 & 570, ASME B31.3, API653, welding and NDT in the Middle East, Africa and Asia. He is a chartered engineer with 25 + International certification in Welding, NDE and In Service Inspection.

INVESTMENT PACKAGES

Please checklist the package that you are attending!

API 570 - Piping Inspector Course Virtual Training Schedule	Price
<input type="checkbox"/> 19 th - 23 rd June 2023 at 09:00 AM - 17:00 PM (GMT +8)	USD 2,870

* 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.

* Price include certificate of attendance.

* Recording with any kind of media from PetroSync online training session without permission will be taken into copyright issue and legal action.

* We will arrange technical briefing one week prior to the training date, to make sure all participants do not have any problem with their laptop / PC / Internet connection to experience the live online training session.

* Attendance form will be presented with print screen

* We can help to register API exam certification which incur USD 100 administration fee per application.

* For API Exam late application, there will be additional USD 150 borne by the participant

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 : DBSSSGSGXXX • 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.

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

Contact : 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 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

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CHARGES & FEE(S)

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

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