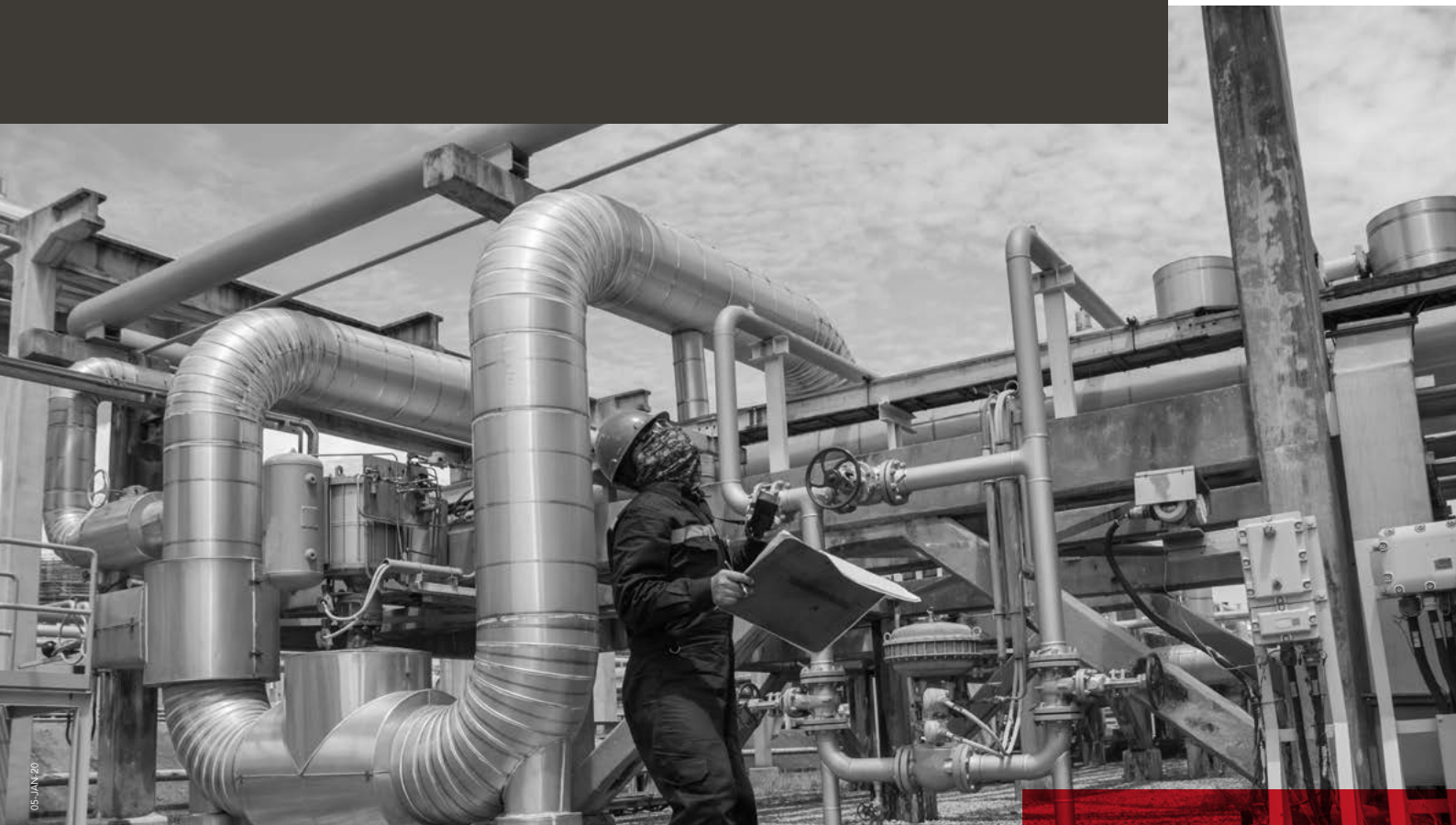




An Intensive 5 Day Training Course

ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids

25 - 29 Oct 2020, Dubai



This course is Designed, Developed, and will be Delivered under
ISO 29990 : 2010 & ISO9001 : 2015 Quality Standards

ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids



WHY CHOOSE THIS TRAINING COURSE?

This PetroKnowledge training course focuses on the ASME B31.4 for Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids. The training course introduces the different parts of the ASME B31.4 Standard and will cover all topics requirements for safe design, construction, inspection, testing, operation and maintenance of liquid pipeline systems.

Furthermore, assessing pipeline integrity is an essential part of this Code to ensure the safe transportation of liquids. In addition, the design, materials examination, testing, Construction, Welding, Assembly Corrosion Control and Offshore Liquid Pipeline Systems are handled in detail.

This training course will feature:

- Scope and applications of ASME B31.4
- The pressures design formula for internal and external stress
- General requirements of materials
- Identify the requirements for the Operation and Maintenance procedures
- Different requirements related to inspection and testing of a pipeline
- Requirements for the offshore pipeline related materials, inspection, testing, Operation and Maintenance procedures
- Internal and external corrosion
- Internal and external Corrosion Control

WHO IS THIS TRAINING COURSE FOR?

This PetroKnowledge training course is designed for those interested in ASME B31.4 for Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids:

- Pipeline designers
- Pipeline contractors
- Pipeline operators
- Public safety officials
- QA/QC inspectors
- Maintenance Engineers
- Inspection testing professionals
- Fabrication fabrications
- QA/QC reliability professionals for oil and gas (Petrochemical and Refining) operations

WHAT ARE THE GOALS?

- Identify the design stress from external, internal and calculate the pipe wall thickness and allowances
- General Criteria for Piping Components including branches, flanges, valves, reducers and Closures
- Explain the Materials — General Requirements, acceptance and limitation
- Gain more information about the Construction, Welding, and Assembly of pipelines
- Identify the required inspection and testing of the pipelines
- Receive enough information about the Operation and Maintenance Procedures Affecting the Safety of Liquid Transportation Piping Systems
- Focusing and learning on the internal and external corrosion monitoring, control and cathode protection
- Employing pre and post weld heat treatment and identify the Charpy impact testing
- Explain the Offshore Liquid Pipeline Systems related design construction inspection and testing

HOW WILL THIS TRAINING COURSE BE PRESENTED?

This training course will be conducted along workshop principles with formal lectures, videos and interactive worked examples. Each learning point will be re-enforced with practical exercises and ample opportunities for discussion and sharing of experiences. The course instructor may modify the above training methodology before or during the course for technical reasons.



DAILY AGENDA

Day One

- Introduction and history of ASME codes
- Scope and Definitions
- Content, Coverage and Exclusions
- Design include Load Classifications calculation of stresses
- Criteria for Pipe Wall Thickness and Allowances
- Criteria for Crossings
- Criteria for fittings, assemblies, and other components
- General requirements of materials
- Construction, Welding, and Assembly
- Assembly of piping components

Day Two

- Inspection and Testing
- Type and Extent of Examination Required
- Hydrostatic Testing of Internal Pressure Piping and Leak Testing
- Pipeline operation and maintenance
- External or Internal Corrosion, gouging, dents and cracks
- Permanent Repairs types and selections
- Pump station, terminal, and tank farm operation and maintenance
- Emergency plans

Day Three

- External corrosion control — buried pipelines
- Coating and cathode protection requirements
- Testing and inspection of cathode protection
- Internal corrosion control
- External corrosion control for Pipelines exposed to atmosphere
- External corrosion control for thermally insulated pipelines
- Offshore Liquid Pipeline Systems
- Scope and Definitions
- Installation Design Considerations

Day Four

- Operational Design Considerations
- Hydrostatic Test Design Considerations
- Design criteria offshore liquid pipeline systems
- Design for Expansion and Flexibility
- Pressure design of components Straight Pipe and Branch Connections
- Materials — general requirements for offshore liquid pipeline systems
- Construction of offshore liquid pipeline including inspection, welding, right of way, ditching

Day Five

- Testing of offshore liquid pipeline systems
- Operation and maintenance procedures affecting the safety of liquid transportation piping systems
- Pipeline Repairs offshore liquid pipeline systems
- External corrosion control for offshore submerged pipeline



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ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids

✓	DATE	VENUE	FEE(\$)
	25 - 29 Oct 2020	Dubai - UAE	4,950

This fee is inclusive of Documentation, Lunch and Refreshments

Please use BLOCK CAPITALS to fill in this form. It is important that you read carefully through all information before starting to complete the form.

REGISTRATION DETAILS

Family Name: _____ First Name (Mr./Ms.): _____
 Position: _____ Company: _____
 Mailing Address: _____
 Telephone: _____ Mobile: _____ Fax: _____ Email: _____

AUTHORISATION

Authorisation By: _____
 Position: _____ Company: _____
 Mailing Address: _____
 Telephone: _____ Mobile: _____ Fax: _____ Email: _____

BOOKING TERMS & CONDITIONS

Booking

- Bookings for courses can be made via our website (petroknowledge.com) or by contacting our Registration Desk on +971 2 5577389 or at reg@petroknowledge.com
- For on-line bookings, please select the course that you require and click on the "Register Now" button, following the instructions step by step
- Upon receipt of booking in order, enrolment on the respective training course will be confirmed by Registration Team with all necessary documentation

Invoicing and Payment

- Our fees include course presentation, relevant materials, physical & digital documentation, lunch and refreshments served during entire training. Accommodation charges are not included in the course fees
- Course fees are payable upon booking unless a valid, authorized Purchase Order is provided and accepted
- Invoices will be sent via email/courier to the ID/name and address provided
- We prefer to have the fees payment in our account before the start of training course. However, if your company has a different payment policy, the same should inform us in advance
- The currency of fees is in US Dollars (USD). Payments can be made in USD or UAE local currency AED (Arab Emirates Dirhams) either by Bank Transfer or by Credit Card. Our Bank Account details will be provided on the Invoice
- Please note that we do accept payment by cash, in USD or AED, only for the last minute bookings

Cancellation of Courses

- It may be necessary for PetroKnowledge to amend or cancel any course, course times, instructors, dates or published fees due to unforeseen circumstances and we reserve the right for such changes
- Any amendments will be advised before the course start date and any bookings already paid in full will not be subject to increased fees

Cancellation by Client

- Once you have completed your booking, received your confirmation of enrolment and a dated payment Invoice, you are deemed to have a contract with PetroKnowledge. You reserve the right to cancel this contract given the below terms
- All cancellations must be received in writing at reg@petroknowledge.com and info@petroknowledge.com at least 21 days prior to the training
- After the cancellation period has expired, consideration may be given, on a case to case basis, if a registered delegate nominates a substitute on the same course, shifts to next session of the course or moves to a new course
- For a cancellation request made on or before the statutory 21 day cancellation period, a credit note issued which can be used against future course fees
- A 25% administration fee (of the total course fee at the time of booking) will be charged for any cancellations made outside of the statutory cancellation period

Attendance Certificate

- The daily course schedule should be accurately followed to ensure undeterred implementation of our training
- All delegates, who participated in their course throughout, will receive the Certificate of Completion on the last day
- Please report any foreseeable absences to a PetroKnowledge representative or to your sponsors directly
- An absence of three (3) or more sessions of the course will invalidate your eligibility for the Certificate of Completion

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