



TREVOR JEE ASSOCIATES
ENGINEERING CONSULTANTS

Overview of pipeline engineering

A comprehensive appreciation course
for oil industry professionals

Houston

21-23 October 2003



Covers both onshore and offshore pipelines

ABOUT THE COURSE

Overview of Pipeline Engineering is a comprehensive 3-day course for oil industry professionals who wish to acquire an overview of the subject and have the latest technology explained in plain language.

The first day gives a picture of the lifetime of a subsea pipeline from conceptual design to decommissioning. The second day covers new technology in risers, limit state design and deep-water operations. Day three covers landlines from start to finish and focuses on the differences from subsea.

The presentations make use of computer graphics throughout, punctuated with short videos and reinforced by practical examples and group discussions. The atmosphere is informal and questions are welcome. **No previous experience is necessary.**

Also included each day is a sit-down lunch. Refreshments will be provided throughout the course. On the middle evening there is a complimentary course dinner.

WHO SHOULD ATTEND?

Anyone who has an interest in subsea and land pipelines and wishes to have an overview of the subject and its language. Past delegates have spanned a vast range from new entrants to the industry, to technical specialists, to sales engineers, to managers newly in charge of pipeline engineers, and so on. They have come from Operators, Contractors, Suppliers and Government.

DAY 1 - SUBSEA DAY 2 - TECHNOLOGY DAY 3 - ONSHORE

Design

- Offshore route selection
- Diameter sizing
- Steel pipe manufacture
- Wall thickness
- Materials selection
- On-bottom stability
- Thermal insulation

Installation

- S-lay
- J-lay
- Bundles
- Reel-lay
- Flexibles
- Landfalls
- Presweep, trenching and burial
- Pre-commissioning

Operation

- Pigging
- Survey
- Intelligent pigging
- Remedial works
- Repairs
- Tie-ins
- Decommissioning

Risers

- Fixed riser design
- Flexible pipe
- Flexible riser configurations
- Static and dynamic analysis
- Tensioned and steel catenary risers
- Vortex-induced vibrations

Limit state design

- Codes, laws, rules
- Risk and reliability
- Limit states
- Strain-based design

Case studies

- HP/HT and HIPPS
- Fishing interaction
- Lateral/upheaval buckling
- Span/defect assessment
- Landline cost reduction
- Titanium and composites

Deep water

- Hydrostatic collapse
- Pipe-in-pipe
- Insulation, heating and buoyancy
- Diverless techniques

COURSE DINNER

Design

- Onshore route selection
- Environmental statement
- Pump stations and hydraulics

Construction process

- Survey
- Route preparation
- Welding, NDT
- Coating
- Reinstatement

Construction spreads

- Open country
- Mountains
- Arctic
- Desert
- Swamp
- Crossing techniques
- Stations and terminals
- Commissioning

Integrity management

- Leak detection
- Onshore external inspection
- Isolation techniques
- Repair techniques
- Decommissioning

BRAND NEW DAY

UPDATED



VENUE



The course is held at the Wyndham Hotel, Houston.
(www.wyndham.com/greenspoint)

All delegates have complimentary use of the leisure facilities. These include a pool, fitness suite, sauna and steam room. The course dinner is also complimentary. Hope you can join us.

If you require accommodation, the hotel offers TJA delegates a preferential overnight rate of \$129 + taxes. Delegates settle their own bill on departure. Early booking is advised. Please indicate your requirements on the booking form.

PRESENTERS



TREVOR JEE
MA FIMechE CEng

Trevor Jee has over 20 years' experience of pipeline engineering for the oil and gas industry. He has worked on the design, construction and integrity management of land and subsea pipelines. Currently, Trevor is involved with engineering studies, computational analysis, joint industry projects and training.

ALAN KNOWLES
Eur Ing BSc CEng MICE

Alan Knowles has worked for over 20 years in construction and project engineering of pipelines for the offshore oil and gas industry. His experience covers pipelay, bundles, trenching, survey, river crossings, single point and conventional buoy moorings, cables, repair lining and decommissioning. Currently, Alan is involved with construction consultancy and training.



ABOUT OUR COURSES

Structured training

At Trevor Jee Associates we have worked with our customers to develop a suite of pipeline engineering courses (detailed opposite) to fully meet the training needs of their pipeline engineers.

In-company courses

These courses are also available to you in-company, tailored to your specification. Please call Stewart Polvado to discuss your particular course requirements on (512) 402 9066.

Forthcoming public courses

Construction	04-06 Feb 2003	Aberdeen
Integrity	20-22 May 2003	Aberdeen
Materials	03-05 Jun 2003	London
Design	28-30 Oct 2003	Aberdeen
Construction	18-20 Mar 2003	Houston
Integrity	10-12 Jun 2003	Houston
Design	18-20 Nov 2003	Houston

Details and secure booking available on www.tja.co.uk

THREE EASY WAYS TO BOOK

- 1. Form** Complete and return the form overleaf by post or fax
- 2. Web** Book securely on-line from our website www.tja.co.uk
- 3. E-mail** Send the booking form details to admin@tja.co.uk

Need to know more? Call Stewart Polvado (512) 402 9066

We will send full joining instructions and a receipt to the company contact. To ensure admission, payment must be received before the event.



BOOKING FORM: OVERVIEW, HOUSTON 2003

First Delegate

Name.....
Job Title.....
Dietary requirements.....
Hotel reservations Mon 20 Tues 21 Wed 22 Thur 23

Second Delegate

Name.....
Job Title.....
Dietary requirements.....
Hotel reservations Mon 20 Tues 21 Wed 22 Thur 23

Third Delegate

Name.....
Job Title.....
Dietary requirements.....
Hotel reservations Mon 20 Tues 21 Wed 22 Thur 23

(More delegates? Please photocopy the form or attach a list. Thanks.)

COMPANY CONTACT DETAILS

Name.....
Company.....
Training manager.....
Address (with post code and country).....
.....
Telephone..... Fax..... E-mail.....

Signed

Job title

CONDITIONS

- The booking form constitutes a legally binding contract.
- Trevor Jee Associates reserves the right to refuse admission if payment has not been received prior to the event.
- If you are unable to attend, you are welcome to substitute another person without penalty at any time.
- Trevor Jee Associates will hold your data on computer under the terms of the Data Protection Act.
- Bookings and cancellations must be in writing.
- If you cancel less than 2 weeks before the course begins, or if you fail to attend, the full fee remains due. If you cancel 2 weeks or more before the event an administration fee of \$150 is due.
- Should we cancel the course we will refund you in full, but will disclaim any further liability.
- We reserve the right to make changes if necessary.

PAYMENT

- I attach a check for \$ payable to Jee Ltd
 Please invoice my company \$..... payable prior to the course
 Please debit \$..... from my Switch/Access/Visa/Mastercard/Amex card

Card No Expiry Issue No (Switch only)
Name on card Cardholder's signature

Thank you for your booking. Please either fax this form toll-free (from USA) to 800 290 6853, or post it to 26 Camden Road, Tunbridge Wells, Kent, TN1 2PT, UK.

PRICES

The more delegates you book, the lower the cost per person.

Number	Price (\$)	Per Person (\$)
1	2520	2520
2	4536	2268
3	6552	2184
4	8568	2142
5	10584	2117
6	12600	2100