



The Life-Cycle of Flexible Risers and Flowlines

An Awareness Course



22nd & 23rd March 2011

Parkroyal Kuala Lumpur Hotel, Kuala Lumpur

This course has been developed by three flexible pipe manufacturers and key companies associated with system design, failure mode analysis, and integrity management of flexible flowlines and risers.

The course is aimed at those who specify, purchase, approve, install, operate, manage the integrity of, or decommission flexible risers or flowlines, including jumpers.

The course should provide enough knowledge for them to feel comfortable with their responsibilities and is likely to apply to both engineers and non-engineers at various stages in their careers.

PROGRAMME

Tuesday 22nd

09.00 Registration and Coffee

Introduction to Flexible Pipe

Design of Flexible Risers and Flowlines

- The structure of different types of flexible pipe
- Materials: plastics and their selection; corrosion considerations for steel

Tea/Coffee

- Static flowline design issues, including flow assurance and impact protection
- Dynamic riser design issues, including dynamic analysis and fatigue analysis

12.15 – 13.15 Lunch

Design of Flexible Risers and Flowlines Cont.

- How flexible pipe is manufactured
- Overview of ancillary equipment
- Future technology (including deep water issues)

Tea/Coffee

Installation of Flexibles

- Installation equipment (reels, carousels, etc)
- Considerations for selection of method, equipment, installation vessel etc.
- Installation analysis: load prediction, sea state limitations, minimum bend radius etc.
- Tie-in operations

16.45 Classroom day end

17.00 – 18.00 Ice Breaker

Wednesday 23rd

09.00 Coffee

Damage, Degradation and Failure Modes

- How design takes account of failure modes
- Practical experience – use, damage and failure
- Flexible pipe failure modes, and their mechanisms
- How integrity management is linked to failure modes
- Guideline on Flexible Pipe Integrity Management

Tea/Coffee

Codes & Standards

- Which Codes & Standards are relevant
- Key issues relating to interpretation
- Ongoing developments in the Codes & Standards

Integrity Management

- Integrity versus Asset management, what is the difference?
- What are the requirements of an IM system?
- How do you apply IM?
- A currently operating asset - study of an actual IM system in action

13.00 – 14.00 Lunch

Applications of Flexible Pipe

- Typical applications
- Site specific design and installation issues

Tea/Coffee

- Case studies

16.00 Certification and Course Close

SUT reserves the right to update/change the programme as it sees fit.

Companies Contributing To The Course:



Registration Information – The Life-Cycle of Flexible Risers and Flowlines

To register, either e-mail the information required on the registration form to j.bremner@sut.org or fax the completed form to +61 8 9204 3826

Registration Fees

SUT Members MYR 3000.00

Non Member MYR 3500.00

Please note that all payments will be charged in British Pound Sterling, an exchange rate of 5.8 MYR to £1 will be used *Included in the Fees:* All refreshments during the Course, a copy of the Course notes in handout format and CD containing PDF versions of the presentations.

Preferred Payment Methods:

Credit Card: Mastercard or Visa ONLY. We cannot accept payment by any other card

Invoice: Full details must be supplied ie. PO No. address to which the invoice should be sent.

Bank Transfer: (exclusive of transfer fees and currency exchange rates) to

Barclays Bank Limited, Pall Mall Business Centre, London, SW1Y 5AX

Account no. 80849499 Sort Code 20 65 82 Account name: Society for Underwater Technology

Joining Instructions:

Joining instructions will be e-mailed to the registered delegate (as shown on the registration form). Details of Venue, lecturers and updates to the programme will be included in the joining instructions.

Networking:

An ice breaker will be held 5pm–6pm on the first day of the course (details with joining instructions)

Cancellations:

Refunds will be made on written cancellation received up to ten working days in advance of the event, but will be subject to a 15% handling charge. 50% will be deducted up to three working days in advance and 100% thereafter up to the start of the event. No refund will be given for non-attendance. Delegates may wish to nominate a substitute in their place.

Transport During the Course:

Delegates are responsible for their own travel arrangements at the beginning and end of each day.

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Registration Form

Please e-mail completed form to j.bremner@sut.org or fax the completed form to +61 8 9204 3826

SUT Member No. _____

Please tick to indicate your preferred payment method:

Credit Card _____ (Visa or MasterCard) Invoice (PO No.) _____

Name _____

Company _____

Address _____

E-mail address _____ Tel No. _____

Credit Card No: VISA or MASTER CARD ONLY. _____ / _____ / _____ / _____

Exp. _____ / _____ Security no _____ (last 3 digits on the back of your card)

Name on the card _____

Billing Address if not as above _____

Amount to be charged _____

Signature _____