The Life-Cycle of Flexible Risers and Flowlines
An Awareness Course

28th & 29th October 2014
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 28th**
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
- 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 29th**
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
12.00 – 13.00 Lunch

**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

Tea/Coffee

**Applications of Flexible Pipe**
- Typical applications
- Site specific design and installation issues
- Case studies
16.00  Certification and Course Close

SUT reserves the right to update/change the programme as it sees fit.
Registration Information – The Life-Cycle of Flexible Risers and Flowlines - KL October 2014

To register, please complete the registration form and send to Joyce Bremner on j.bremner@sut.org

Registration Fees
SUT Members MYR 2900.00
Non Member MYR 3400.00

Please note that all payments will be charged in British Pound Sterling, an exchange rate of 5.2 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 USB 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 and contact name.
Bank Transfer: (exclusive of transfer fees and currency exchange rates) Bank account details will be provided on request.

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.

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

Registration Form
Please e-mail completed form to Joyce Bremner on j.bremner@sut.org

SUT Member No._______________

Please tick to indicate your preferred payment method:
Credit Card _____ (Visa or MasterCard)  Invoice (PO No.) __________________ Bank Transfer ______

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 ________________________________________

(Flexi KL Oct 2014)