The Life Cycle of Flexible Risers and Flowlines
(An Awareness Course)

24th & 25th June 2020
Saxons Training Facility (TBC)

This course has been developed by 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.

Presenting Companies Include:
Wednesday 24th June

Day 1 08:40—17:00
08:40 Registration
08:50 SUT Introduction
09:00 Introduction to Flexible Pipe
Marius Martens, INTECSEA
♦ Selection of flexible pipe vs. rigid pipe
♦ Flexible riser concept selection
♦ Codes and standards
♦ Application of flexible pipe in Australian conditions
10:15 Morning tea
10:30 Design of Flexible Risers and Flowlines
Richard Daniell, TechnipFMC
♦ The structure of different types of flexible pipe
♦ Materials: plastics and their selection; corrosion considerations for steel
♦ Flexibles track record
♦ Static flowline design
♦ Dynamic riser design, including dynamic analysis and fatigue analysis
12:30 Lunch
♦ Overview of ancillary equipment
♦ Future technology (including deep water issues)
15:00 Afternoon tea
15:15 Installation of Flexibles
Wesley Palmer, TechnipFMC
♦ 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
17:00 Day end
17:30 Course Dinner

Thursday 25th June

Day 2 09:00—17:00
09:00 Pre-Commissioning / Commissioning
TBC, 2HOffshore
♦ Post tie-In testing
♦ Monitoring and survey
♦ Filling, pigging and pressurising
♦ Requirements and acceptance criteria
10:30 Morning tea
10:45 De-Commissioning / International Applications of Flexible Pipe
Michelle Thornton, Subsea 7
♦ De-commissioning: plan for it before installation - makes retrieval easier
♦ Challenging North Sea installation – successful outcome
♦ Brazil flexible field development – an installation contractor experience
12:00 Lunch
12.45 Damage, Degradation and Failure Modes
Adriana Botto, Wood.
♦ 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
14:45 Afternoon tea
15:00 Integrity Management and Inspection
Andrew Mills, Wood.
♦ 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
17:00 Certification and Course Conclusion

This programme is subject to change.
# Registration Information

The Life Cycle of Flexible Risers and Flowlines June 2020

Should you require further information on this event, please contact Patricia Slapp on p.slapp@sut.org  Tel +61 8 9481 0999

To register please e-mail the information required on the registration form to p.slapp@sut.org

## Registration Fees

<table>
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<tr>
<th>Category</th>
<th>Fee (Early Bird)</th>
<th>Fee (Regular)</th>
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<tbody>
<tr>
<td>SUT Members Early Bird (register and pay before 27th May)</td>
<td>$995.45 + GST = $1,095</td>
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<tr>
<td>SUT Members (registration from 28th May)</td>
<td>$1,236.36 + GST = $1,360</td>
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<tr>
<td>Non Members Early Bird (register and pay before 27th May)</td>
<td>$1,181.82 + GST = $1,300</td>
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<tr>
<td>Non Members (registration from 28th May)</td>
<td>$1,472.73 + GST = $1,620</td>
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<tr>
<td>SUT Student Member</td>
<td>$400 + GST = $440</td>
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The current prices listed above will apply for ALL registrations received and confirmed from the 1st of Feb as per advertising from late 2019. Any registrations received using an old form will be processed at the above 2020 rates.

**Fee includes** - All refreshments during the course including dinner on the first night and an electronic copy of the available presentations and videos are provided.

**Not included** - Hard copy presentations are not provided. Should these be required there is an additional fee of $50.

### Preferred Payment Methods:

- **Credit Card**: Visa, Mastercard or AMEX only *. We cannot accept payment by any other card.
  - *
  - Payment by Visa or MasterCard will carry a 1.5% surcharge / AMEX will carry a 2.75% surcharge.

**Invoice**: Please tick here to be invoiced  

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Joining Instructions:

Joining instructions will be e-mailed to the registered delegate (as shown on the registration form). All details of presenters and updates to the programme will be included in the joining instructions. Please bring along a laptop to view the presentations.

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Course Dinner:

An informal dinner will be held in a local restaurant on the first night of the course (details with joining instructions).

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Transport During the Course:

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

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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.

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CPD Hours:

CPD hours can be claimed for this course, please keep flyer and receipt for auditing purposes.

Please tick box if you do not wish to receive further SUT information  

### Registration Form

Please e-mail completed form along with delegate profile overleaf to p.slapp@sut.org

Please tick to indicate your preferred payment method:  

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<tr>
<th>Credit Card</th>
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Name  

Company  

Address  

E-mail address  

Tel No.  

Credit Card No: VISA, MASTERCARD or AMEX ONLY  

Exp. /  Security no (3 digit number for Visa & M/C, 4 digit number for Amex)  

Name on the card  

Billing Address if not as above  

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E-mail address where receipt should be sent for credit card payment  

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Delegate Profile

So that the lecturers can get an idea of the level at which to pitch their talk, please let us have a few details of your current job position, history and what you hope to learn from the Course.

The Course dinner (Tuesday evening) has been arranged as an informal dinner at a CBD restaurant. Please indicate below if you are able to attend.

Please e-mail along with registration form to p.slapp@sut.org

Position Held___________________________________________________________________________________________

Relevant Professional History______________________________________________________________________________
_______________________________________________________________________________________________________
_______________________________________________________________________________________________________

Reason for attending course_______________________________________________________________________________
_______________________________________________________________________________________________________
_______________________________________________________________________________________________________

Any special dietary requirements____________________________________________________________________________
_______________________________________________________________________________________________________

Count me in for the dinner YES/NO
(If indicating Yes and this changes prior to attending the course please email perthevents@sut.org)

Please tick box if you do not want to share your delegate profile with other attendees ☐