

The Lifecycle of Flexible Risers & Flowlines

**An Awareness Course
9-10 November 2023**

Image courtesy of Oceaneering

An essential awareness course for anyone working with flexible flowlines & risers.

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. Our expert presenters will cover the following topics:

- ▶ Introduction to Flexible Pipe
- ▶ Design of Flexible Risers & Flowlines
- ▶ Installation of Flexibles
- ▶ Pre Commissioning/Commissioning
- ▶ De-Commissioning
- ▶ International Applications of Flexible Pipe
- ▶ Damage, Degradation & Failure Modes
- ▶ Integrity Management & Inspection

WHY WILL THIS COURSE BENEFIT YOU?

The course will provide enough knowledge for you to feel comfortable with your responsibilities. The course is beneficial to both engineers and non-engineers at various stages in their careers.

WHO SHOULD ATTEND?

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

Image courtesy of Oceaneering

Thank you to the presenting companies:

COURSE SCHEDULE

THURSDAY 9TH NOVEMBER

- 08.30 **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 & Flowlines**
Erik Tran, Technip FMC
The structure of different types of flexible pipes
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 Break**
- 13.15 **Design of Flexible Risers & Flowlines cont.**
Overview of ancillary equipment
Future Technology (inc deepwater issues)
- 15.00 **Afternoon Tea**
- 15.15 **Installation of Flexibles**
Victor Artus, Subsea 7
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 **Course End**
- 17.00 **Networking event venue TBC**

FRIDAY 10TH NOVEMBER

- 09.00 **Pre-Commissioning / Commissioning**
Nitin Repalle, 2H Offshore
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**
Victor Artus, 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 Break**
- 12.45 **Damage, Degradation and Failure Modes**
Emilien Rulence, Atteris
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**
Adam Parmenter, 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 **Course Finish**

** SUT reserve the right to amend the course programme as required.

** Please note that all SUT courses are subject to minimum numbers. If minimum numbers are not met for the course to go ahead, the registration fee may be transferred to a future event or refunded in full.

REGISTRATION FORM

Please submit your registration to:

Perth Events

Tel: + 61 (0) 8 9481 0999

Email: perthevents@sut.org

SUT Membership Number

Full name

Job title

Company

Address

Postcode

Telephone

Email

Signature

Course fees: (please tick)

Early Bird* Member \$1200 AUD

Early Bird* Non-member \$1430 AUD

Member \$1495 AUD

Non-Member \$1780 AUD

Student Member \$ 480 AUD

*The prices above are **inclusive** of GST.*

Early Bird registrations must be paid by 9th October 2023.

Cancellations: Refunds will be made on written cancellation received up to 10 working days prior to the event, but will be subject to a 15% administration charge. Cancellations received 9–4 working days prior to the event will be charged a 50% cancellation fee. Cancellations received 3–0 working days prior to the event will not be refunded.

Delegates may send a substitute in their place at no charge. Should there be any COVID related shutdowns that impact this course it will be run online instead of in person.

PAYMENT INFORMATION:

Please invoice (PO NO.) ☐

or

Credit Card ☐

Credit card Mastercard, Visa or AMEX* ONLY.

**Payment by AMEX will carry a 2.75% surcharge, Visa a 1.5% surcharge.*

☐ Amex ☐ Mastercard ☐ Visa

Card number

Card holder's name

Signature

Expiry date

Start date

Issue number

Security Code (last 3 digits on the back of your card)

Email address to send receipt

☐ Please tick here if you do not want to receive our weekly newsletter.

Image courtesy of TechnipFMC

