

# The Lifecycle of Flexible Risers & Flowlines

**An Awareness Course  
6 - 7 November 2024**

*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

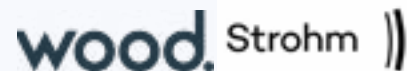
## WEDNESDAY 6 NOVEMBER

- 08.30 **Registration / Arrival Tea & Coffee**
- 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**  
PeiYuen Lee, 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**  
Patrick White, 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 Terrace Hotel**

## THURSDAY 7 NOVEMBER

- 08.15 **Arrival Tea & Coffee**
- 08.30 **Lifecycle of Thermoplastic Composite Pipe (TCP)**  
Robby O'Sullivan, Strohm  
*Design and Manufacturing Fundamentals*  
*Design Standards and Qualification Process*  
*Technical Differentiators from traditional pipes*  
*TCP for Energy Transition*
- 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**  
Oliver Bevan, 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**  
Nahuel Rull and Mohamed Almobarak, 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.*

Thank you to the presenting companies:



# REGISTRATION FORM

Please submit your registration to:

Perth Events  
Tel: + 61 (0) 8 9481 0999  
Email: [perthevents@sut.org](mailto: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	<input type="checkbox"/>
Early Bird* Non-member	\$1430 AUD	<input type="checkbox"/>
Member	\$1495 AUD	<input type="checkbox"/>
Non-Member	\$1780 AUD	<input type="checkbox"/>
Student Member	\$ 480 AUD	<input type="checkbox"/>

The prices above are **inclusive** of GST.  
Early Bird registrations must be paid by 6th October 2024.

*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