This one-day course explains offshore geology, geohazards and geotechnical engineering, adopting a holistic approach to show how they interact and how an improved understanding of all three disciplines can lead to optimised infrastructure solutions.

This is an essential 1 day course providing a greater understanding of the offshore geology environment. Upon completion of the course our expert presenters will have covered the following topics:

- Overview/Setting the scene
- Design Philosophy
- Designing for Installation
- Geology of the North West Shelf
- Geohazards and Georisks
- Desk Studies, Geophysical Surveys
- Geotechnical Investigations & Integration
- Characterisation of the Seabed in Shallow & Deep Water
- Deep Water, Shallow Water
- Future Horizons

Why will this course benefit you?
This course will introduce the different geological environments present offshore Australia and in other regions, ranging from shallow water through to deep water. It will explain how an integrated ground model can be used to reduce risk and increase value and show best practices for the collection of data for site characterisation, design and geohazard mitigation.

Presenters will illustrate the geotechnical design of geotechnical infrastructure, including shallow foundations, deep foundations, anchors and pipelines, illustrated with numerous case histories.

The course will include demonstrations of equipment and laboratory tours at UWA to give ‘hands on’ experience of seabed sediments, soil element testing and physical modelling (including UWA’s centrifuge facilities and O-tube flumes).

Who should attend?
This course is aimed at an audience with no or limited knowledge of geosciences, therefore it is well suited to students, recent graduates and those that are new to the industry.

Comments from delegates who attended previous courses:
“Site visits were an excellent idea – helps to visualise the equipment first hand.”
# COURSE SCHEDULE

**DAY 1  WEDNESDAY 28 APRIL 2021**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00</td>
<td>Registration</td>
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<tr>
<td>08.25</td>
<td>SUT &amp; delegate introduction</td>
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<tr>
<td>08.30</td>
<td>Housekeeping/Safety</td>
<td>Phillip Watson, UWA &amp; Damon Sunderland, ARUP</td>
<td>Geotechnical overview of developments on the North West Shelf of Australia. Objectives of a reliability strategy. Importance of geohazards and geotechnics.</td>
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<tr>
<td>08.35</td>
<td>Setting the Scene</td>
<td>Phillip Watson, UWA &amp; Damon Sunderland, ARUP</td>
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<tr>
<td>09.50</td>
<td>Designing for Installation</td>
<td>Rick Gillinder, Fugro</td>
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<tr>
<td>10.20</td>
<td>Morning Tea</td>
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<tr>
<td>10.40</td>
<td>Geology of the North-West Shelf</td>
<td>Andy Lane, NGI</td>
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<tr>
<td>11.25</td>
<td>Geohazards &amp; Georisks</td>
<td>Julie Chapman-Day, Chevron</td>
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<tr>
<td>12.10</td>
<td>Lunch</td>
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<tr>
<td>13.00</td>
<td>Desk Studies, Geophysical Surveys, Geotechnical Investigations and integration</td>
<td>Steve Tyler, Woodside Energy, &amp; Damon Sunderland, ARUP</td>
<td>Different survey and investigation methods. Benefits &amp; development how to of an integrated ground model.</td>
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<tr>
<td>13.45</td>
<td>Characterisation of the Seabed in Shallow and Deep Water</td>
<td>Cathal Colreavy, NGI &amp; Scott Draper, UWA</td>
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<tr>
<td>14.30</td>
<td>Afternoon Tea</td>
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<tr>
<td>15.00</td>
<td>Deep Water</td>
<td>Fraser Bransby, UWA</td>
<td>Geotechnical solutions for foundations, anchors and pipelines.</td>
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<tr>
<td>15.45</td>
<td>Shallow Water</td>
<td>Carl Erbrich, Fugro</td>
<td>Geotechnical solutions for foundations, anchors and pipelines.</td>
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<tr>
<td>16.30</td>
<td>Future Horizons</td>
<td>Phillip Watson, UWA</td>
<td>Geotechnical solutions for foundations, anchors and pipelines.</td>
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<tr>
<td>16.45</td>
<td>Conclusions &amp; Wrap up</td>
<td>Damon Sunderland, ARUP</td>
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</table>

A laboratory tour will take place during the lunchbreak.

Thankyou to our presenting companies:

[ARUP] [Chevron] [Fugro] [NGI] [Woodside]
Please complete the form below and submit via email to p.slapp@sut.org to confirm your registration.

SUT Membership Number
Full name
Job title
Organisation/company
Address
City
County
Postcode
Telephone
Email
Signature

Course fees: (please tick)
Member Early Bird $462 AUD
Member $525 AUD
Non-member EB $545 AUD
Non-member $620 AUD
Student Member $190 AUD

Early Bird rates apply to all bookings received by 31 March 2021. All bookings received from 1 April 2021 will be charged at the standard rate.

PAYMENT INFORMATION:
Please invoice (PO NO.)
or
Credit Card

Credit card Mastercard, Visa or AMEX® ONLY.
*Payment by AMEX will carry a 2.75% & Visa 1.5% surcharge

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.

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.