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.”
DAY 1  WEDNESDAY 26 MAY 2021

08.00 Registration
08.25 SUT & delegate introduction
08.30 Housekeeping/Safety
08.35 Setting the Scene  Phillip Watson, UWA & Damon Sunderland, ARUP
- Geotechnical overview of developments on the North West Shelf of Australia.
- Objectives of a reliability strategy.
- Benefits & development how to of an integrated ground model.
13.00 Desk Studies, Geophysical Surveys, Geotechnical Investigations and integration  Steve Tyler, Woodside Energy & Damon Sunderland, ARUP
- Different survey and investigation methods.
- New techniques.
13.45 Characterisation of the Seabed in Shallow and Deep Water  Steven Goodney, RIZ & Scott Draper, UWA
- Setting the Scene
- Phillip Watson, UWA & Damon Sunderland, ARUP

09.20 Design Philosophy  Laith Tapper, NGI
- Project timelines.
- Managing risk and opportunities.
- Design cases.
- Selection of factors of safety.
- Reliability-based design and risk analysis.
- Installation risks and constraints.
14.30 Afternoon Tea
10.40 Geology of the North-West Shelf  Andy Lane, NGI
11.25 Geohazards & Georisks  Kevin Day, Ten Point Interpretation
- A laboratory tour will take place during the lunchbreak.
12.10 Lunch
16.00 Deep Water  Fraser Bransby, UWA
Geotechnical solutions for foundations, anchors & pipelines.
16.45 Shallow Water  Carl Erbrich, Fugro
Geotechnical solutions for foundations, anchors & pipelines.
17.00 Future Horizons  Phillip Watson, UWA
- Designing for Installation  Rick Gillinder, Fugro
- Morning Tea
- Conclusions & Wrap up  Damon Sunderland, ARUP

COURSE SCHEDULE

Thankyou to our presenting companies:

ARUP  TUGRO  NGI

REGISTRATION FORM

Offshore GeoHazards & Geotechnics Course 26 May 2021
Please complete the form below and submit via email to perthevents@sut.org to confirm your registration.

SUT Membership Number

Full name

Job title

Organisation/company

Address

County

City

County

Postcode

Telephone

Email

Signature

Course fees: (please tick)

Member $525 AUD
Non-member $620 AUD

Student Member $190 AUD

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 2.5% surcharge.

Card number

Card holder’s name

Signature

Start date

Issue number

Security Code

Expiry date

Email address to send receipt:

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

Please list any dietary requirements you have:

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 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.

Thankyou to our presenting companies: