



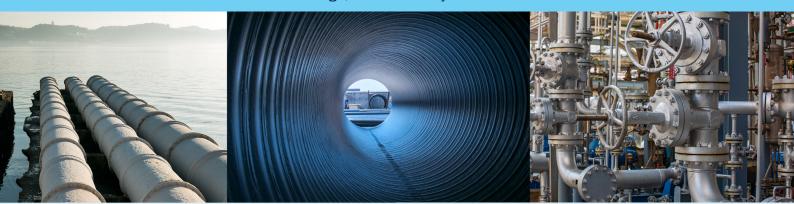
# OSIGp Geohazards & Geotechnics Course

For Offshore O&G and Windfarm Developments

2 Day Course

### THURSDAY 24 - FRIDAY 25 JULY, 2025

OceanWorks Lounge, The University of Western Australia



#### WHAT YOU CAN EXPECT FROM THE COURSE?

This course is an introduction to geoscience and geotechnical engineering, comprised of hand-picked topics that are relevant to general offshore developments, and also to developments sited on carbonate-rich areas. The course is delivered by industry and academic experts, and broadly covers the following:

- Introduction to the different geological environments present offshore Australia and in other regions, ranging from shallow water through to deep water.
- Overview of how an integrated ground model can be used to reduce risk and increase value of offshore projects.
- Presentations on best practice for the collection of data for site characterisation, design and geohazard mitigation.
- Introduction to engineering design and installation of subsea geotechnical infrastructure, including shallow foundations, deep foundations, anchors & pipelines, illustrated with numerous case histories.
- Laboratory tours at UWA to give 'hands on' experience of soil element testing and physical modelling (including UWA's centrifuge facilities and O-tube flumes).

#### WHY YOU SHOULD ATTEND THIS COURSE?

This two-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, with applications on offshore oil and gas and windfarm developments.

#### WHO SHOULD ATTEND?

The course is aimed at an audience with no or limited knowledge of geosciences. It is suitable for subsea and offshore operators and contractors from both the oil and gas and offshore renewable industries, anyone who is a part of the supply chain that supports the operation or maintenance of offshore and subsea systems, students and academics who want to learn about industry practices in offshore geotechnics, and those returning or new to the subsea industry.

## **COURSE SCHEDULE**

DAY 4		5 N/ 6		
DAY 1	THURSDAY 24 JULY 2025	DAY 2	FRIDAY 25 JULY 2025	
08.00	Registration	08.30	Lab tours	
08.20	SUT & delegate introduction, Housekeeping/safety			
08.30	Course Outline Nicole Fiumana, WSP	10.30	Tea/Coffee break	
	Overview/outline of course     Role of G&G in offshore developments			
	Note of dad in oriented developments	10.45	Engineering Solutions 1 Fraser Bransby, UWA	
09.00	Experiences & Learnings Phil Watson, UWA		- subsea mudmats	
00.00	Overview of legacy projects and learnings from Northwest Shelf		- flowlines/pipelines inc. pipeline stabilisation - subsea cables	
			- foundations for floating facilities (inc. risers, mooring, anchor	
09.45	<b>OWF Developments in Australia</b> Andrew Grime, Arup		foundations	
	Short overview of planned OWF developments in Australia, project status/timelines, challenges (project delivery, supply			
	chains, etc.	11.30	Engineering Solutions 2 Marcelo Silva, Fugro	
			- jacket foundations	
10.30	Morning Tea		<ul> <li>foundations for wind turbines and generators</li> <li>jack-ups</li> </ul>	
	S		- seismic design	
10.45	Design Philosophy Laith Tapper, NGI		C	
	Overview of a typical offshore projects looking at the following:	12.15	Lunch	
	- project timeline			
	- project risks - design considerations	13.00	Sediment Transport & Scour Scott Draper, UWA	
	design constant and		- sediment transport and scour	
11.30	Geological Framework 1 Colin McGovern, WSP & Christine		- engineered scour protection	
	Devine, WSP			
	- definition and fundamentals of geology and sedimentology	13.45	<b>Designing for Installation</b> Rick Gillinder, Fugro - O&G related	
	- regional NWS geomorphology, stratigraphy and sediments		- pipelines & flowlines	
			- shallow foundations (suction buckets)	
12.15	Lunch		- deep foundations	
13.00	Geological Framework 2 Colin McGovern, WSP & Christine	14.30	Installation of OWT Foundations John Morton, 2HOffshore	
	Devine, WSP	14.50	(Recorded session)	
	Regional NSW/Victoria/WA geomorphology, stratigraphy and		- OWF related	
	sediments		- monopiles and turbines	
13.45	Geohazards Kevin Day, Ten Point Interpretation		- subsea cables	
	- What is a geohazard?			
	- Static geohazards - Dynamic geohazards	15.15	Afternoon Tea	
	- Geohazard assessment	15.30	Euturo Horizone France Branchy LIMA	
		13.30	Future Horizons Fraser Bransby, UWA	
14.45	Afternoon Tea		- new technonology / R&D - big data	
			- autonomous/robotics surveys	
15.00	Site Characterisation 1 Damon Sunderland, Arup		- geotechnics from geophysics	
	- ground modelling		- integrated system design	
	- SI planning process - positioning	40.00	0.0.10.11	
	- geomatics & mapping-	16.30	Course Wrap-up & Certification Nicole Fiumana, WSP - certification	
	- metocean data & climate		- feedback	
	- geophysical acquisition - geotechnical acquisition			
	gootoonineal adquiotion		Thank you to our precenting companies:	
15.45	Site Characterisation 2 Cathal Colreavy, NGI		Thank you to our presenting companies:	
	- sampling techniques/disturbance	ADVID F		
	- soil logging - laboratory tests for soil characterisation	AR	UP TUGRO NC	
	- data integration and reporting		• • • • • • • • • • • • • • • • • • • •	









## **REGISTRATION FORM**

Please submit your registration to:

Tel: + 61 (0) 8 9481 0999 Email: perthevents@sut.org

OSIGp Geohazards & Geotechnics Course for Offshore O&G and Windfarm Developments 24-25 July 24

25 June 2025 will be charged at the standard rate.

SUT Membership Nun	nber	PAYMENT INFORMAL	PAYMENT INFORMATION:		
Full name		<u> </u>	Please invoice (PO NO.)		
Job title		or ——	Of Credit Card		
Organisation/compan	NV	— Gredit Gard			
Address			Credit card Mastercard, Visa or AMEX* ONLY.  *Payment by AMEX wil carry a 2.75% & Visa 1.5% surcharge  • Amex • Mastercard • Visa		
	City				
County	Postcode	Card number			
Telephone		Card holder's name	Card holder's name		
Email		Signature	Expiry date		
Signature		Start date	Issue number		
		Security Code (last 3 dig	its on the back of your card):		
Course fees inc GST: ( Member Early Bird	please tick) \$1,200 AUD	Email address to send	receipt:		
Member \$1,495 AUD \\ Non-member EB \$1,430 AUD \\ Non-member \$1,780 AUD \\ Student Member \$480 AUD \\ align*		Please tick here if yo	Please tick here if you do not want to receive our weekly newsletter.		
		Please list any dietary re	equirements you have:		
The prices above are inclusive of	of GST				
Early Bird rates apply to all boo	kings paid by 24 June 2025. All bookings received fr	om			

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.