astle Underwate Airport Technology Hunter Vetlands National Park ositioning & Survey B63 A15 wcastle **B57** A37 **An Introductory Course B89** 19-20 March 2025 Belmont

Positioning and Survey underpin all aspects of the subsea environment.

Raymond Terrace

Tilligerry Conserv Area

From understanding the nature of the environment we are working in, the topography of the seabed, the geology of the seabed, the location of the assets on the seabed and how they may change over time. Upon completion of the course our expert presenters will have covered the following topics:

- Geodesy & Positioning Principles
- Surface Positioning
- Vessel Dynamics
- Tides & Currents
- Positioning Technology
- Case Studies
- Bathymetry

Abel Undergro

Collien

B53

- Survey Data Processing
- Geophysics
- Remote Sensing Technologies

WHY WILL THIS COURSE BENEFIT YOU?

The Introduction to Positioning and Survey Course provides an introduction to these aspects of subsea to allow the participants to understand and appreciate the requirements for survey and positioning in their subsea undertakings.

WHO SHOULD ATTEND?

Anyone who works for an operator, contractor or part of the supply chain and is involved with exploration, construction and maintenance of subsea assets would benefit from learning how subsea assets are positioned, why in that location and how the information is acquired and maintained. Those returning to the subsea industry or joining for the first time would also benefit and gain exposure to the latest technology and operating practices.



COURSE SCHEDULE

WEDNESDAY 19TH MARCH

- 08.30 **Registration**
- 09.00 SUT Introduction
- 09.10 Introduction & Overview Peter Wademan, Woodside Energy
- 09.30 Autonomy & Remote Operations Phil Wells, MMA Offshore

10.00 Morning Tea

10.15 **Geodesy & Positioning Principles** Peter Wademan, Woodside Energy Datums & Coordinate Systems Coordinate Reference Systems Coordinate Transformations MSL, Geoids & Mean Sea Surface Models

11.15 Surface Positioning

Ahmed Said, MMA Offshore History of Surface Positioning US, Russian, European & Chinese satellite systems Accuracies and misconceptions Impacts of phones, watches & automated technology The future

12.15 Lunch Break

13.15 Vessel Dynamics

Bill Russell-Cargill, INPEX Centre of gravity Stability Magnetic & Gyro Compass Pressure point Attitude sensors and calibration Turning of vessels Squat Inertial Navigation Sensor

14.15 Tides & Currents

Scott Norieka, RPS Tide Measurement Prediction Current Profiling Temp Salinity Sound Velocity Profiling Solitons

15.15 Afternoon Tea

15.30 **Positioning Technology** James McCawley, Fugro Ultra Short Base Line Long Base Line ROV INS Metrology

16.45 Course Finish

THURSDAY 20TH MARCH

- 08.45 Registration Tea/Coffee
- 09.00 **Case Studies** Pat Fournier, MMA Offshore Pluto Development Equus Deepwater Pipeline Route
- 10.00 Geophysics

10.45

Giovanni De Vita, DOF Subsea Introduction to geophysics Methodologies and applications Data and new technologies Morning Tea

11.00 The value of a Data Portal to manage a Hydrographic project

Paul Kennedy, Guardian Geomatics Does a portal add value or is it just a gimmick? Is it worth the cost? What layers are important? Does it need to do everything?

11.45 Bathymetry

Barnaby Pountney, DOF Subsea Single & Multi Beam Echo Sounders Validation AUV's, ROV's Tide Correction Side Scan Sonar

12.45 Lunch Break

13.45 Remote Sensing Technologies

Glenn Morrison, AAM Group Earth Observation: Satellites & Airborne Laser Scanners & Photogrammetry RADAR, LIDAR & Hyperspectral New systems & application examples

14.30 Hydrographic Surveys for Nautical Charting is all about quality control Paul Kennedy, Guardian Geomatics Why is this important? What is a quality control measure? What are the inputs? What are the outputs? Managing crunch times

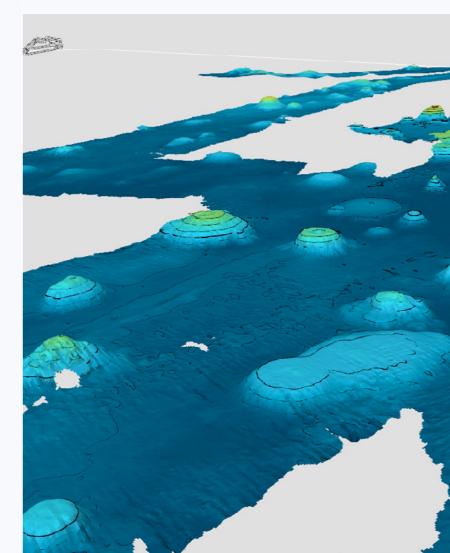
15.30 Course Finish

** 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

REGISTRATION FORM

SUT Membership Numbe	er	
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	\$ 480AUD	
The prices above are inclusive of GS		
Early Bird registrations must be rec		
Cancellations: Refunds will be made on written cancellation received up to 10 working day received 9—4 working days prior to the event will be charged a 50% cancellation fee. Ca		



person.

Please submit your registration to:
Tel: + 61 (0) 8 9481 0999
Email: perthevents@sut.org

PAYMENT INFORMATION: Please invoice (PO NO.) or Credit Card		
Credit card Mastercard, Visa or AMEX* ONLY. *Payment by AMEX wil 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.

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

Images courtesy of Guardian Geomatics