

Positioning & Survey

An Introductory Course

18-19 March 2026

Wood Offices

Positioning and Survey underpin all aspects of the subsea environment.

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:

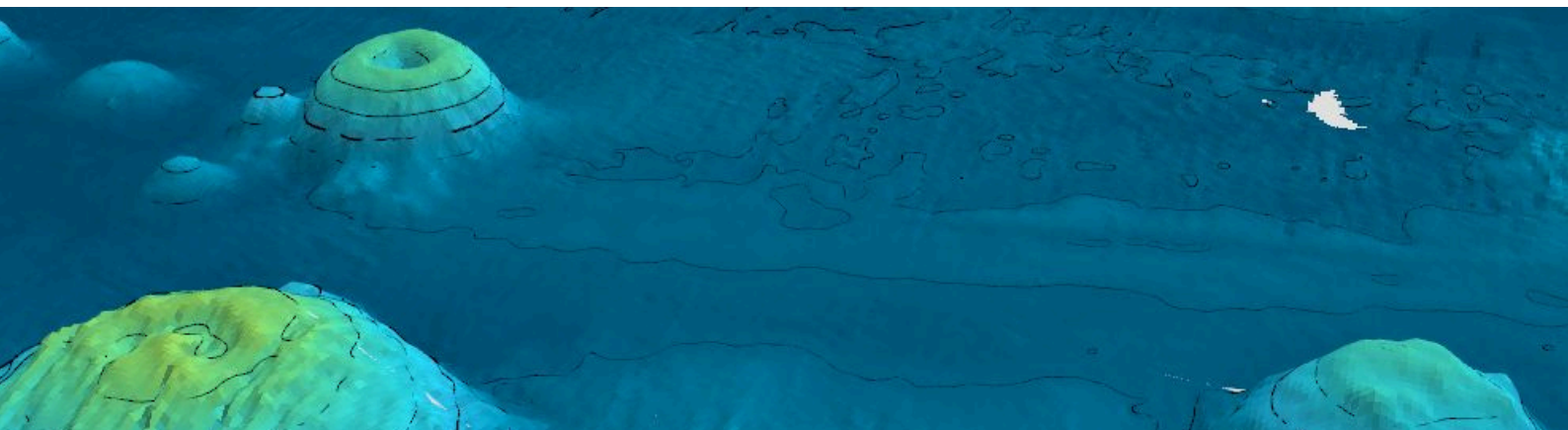
- Geodesy & Positioning Principles
- Surface Positioning
- Vessel Dynamics
- Tides & Currents
- Positioning Technology
- Case Studies
- Bathymetry
- Survey Data Processing
- Geophysics
- Remote Sensing Technologies

Why will this course benefit you?

The 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.



Thank you to the presenting companies:

COURSE SCHEDULE

Wednesday 18th March

08.30 Registration/Tea & Coffee

09.00 SUT Welcome & Introduction

09.10 Introduction & Overview
TBC

09.30 Autonomy & Remote Operations
Phil Wells, Cyan Renewables

10.00 Morning Tea

10.15 Geodesy & Positioning Principles
Barry Clifford, Woodside Energy
Datums & Coordinate Systems
Coordinate Reference Systems
Coordinate Transformations
MSL, Geoids & Mean Sea Surface Models

11.15 Surface Positioning
Ahmed Said, Cyan Renewables
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 Remote Sensing Technologies
Glenn Morrison, Woolpert
Earth Observation: Satellites & Airborne
Laser Scanners & Photogrammetry
RADAR, LIDAR & Hyperspectral
New systems & application examples

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 19th March

08.45 Registration/ Tea & Coffee

09.00 Case Studies
Phil Wells, Cyan Renewables
Pluto Development
Equus Deepwater Pipeline Route

10.00 The value of a Data Portal to manage a Hydrographic project
TBC
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?

10.45 Morning Tea

11.00 Geophysics
TBC
Introduction to geophysics
Methodologies and applications
Data and new technologies

11.45 Bathymetry
TBC
Single & Multi Beam Echo Sounders
Validation
AUV's, ROV's
Tide Correction
Side Scan Sonar

12.45 Lunch Break

13.45 Tides & Currents
TBC
Tide Measurement
Prediction
Current Profiling
Temp Salinity
Sound Velocity Profiling Solitons

14.30 Hydrographic Surveys for Nautical Charting is all about quality control
TBC
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 ahead, the registration fee may be transferred to a future event or refunded in full.**

REGISTRATION FORM

Please submit your registration to:

Tel: + 61 (0) 8 9481 0999

Email: 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	\$ 480AUD	<input type="checkbox"/>

The prices above are **inclusive** of GST

Early Bird registrations must be received by 18th February 2026

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

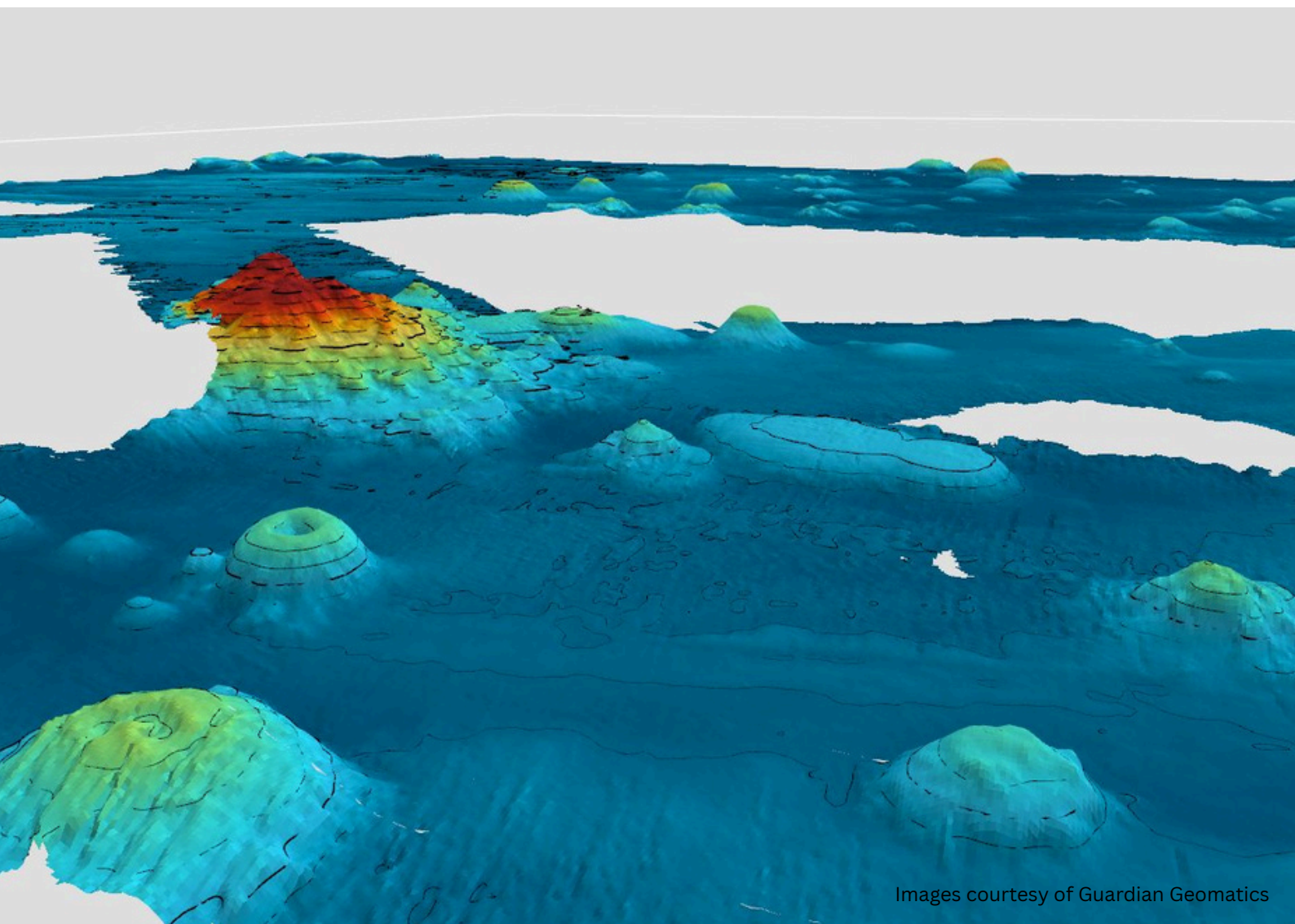
Start date

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.



Images courtesy of Guardian Geomatics