



Sonardyne's 6th Generation acoustic positioning systems are the equipment of choice for many offshore projects. Our Ultra Short Baseline (USBL) and Long Baseline (LBL) systems offer industry-leading precision for tracking and positioning subsea vehicles and structures, whether in a few metres of water or the deepest oceans. These advanced Wideband™ systems can be used very effectively on their own or in support of our Inertial Navigation System for even greater confidence in consistent position data.

Course OBJECTIVES

This 2-day course will give you an in-depth introduction to the technology used to track and position subsea assets offshore. Theory lectures will cover the principles of Ultra Short Baseline (USBL), Long Baseline (LBL) and our inertial system SPRINT supported by our Syrinx DVL, their applications, how they are configured & calibrated and their operational functions. You will also discuss acoustic theory and environmental factors that affect the systems' performance and witness in-water practical demonstrations of the technology in operation.

WHO SHOULD ATTEND?

This course is aimed at those who wish to gain an in depth introduction to the systems and would suit those new to the off-shore industries and/or the technology.

TEACHING MEDIUM

This workshop is delivered in English.

NUMBER OF PARTICIPANTS

Places are limited to 6 attendees

TRAINING COURSE DELIVERABLES

- Booklets containing course material plus USB stick containing supporting information.
- Attendance Certificate

BOOKING AND CONFIRMATION

Details of course dates can be found at the Training Course section of Sonardyne's website:
www.sonardyne.com

To reserve a place on a course, please email:

training@sonardyne.com

Or contact us via LinkedIn:

<https://www.linkedin.com/company/sonardyne-training>

OTHER INFORMATION

Refreshments will be available and lunch will be provided – Please let us know if you have any specific dietary requirements.

COURSE SYLLABUS

Theory

- Introduction to Sonardyne
- Acoustics theory
- System principles (USBL, LBL or INS)
- Calibration methods and theory
- Methods of operation and applications of systems
- Introduction to system hardware and standard configurations (Subsea assets and topside units)
- Wideband signal processing
- Error Theory
- Environmental Considerations

Practical Sessions (in-water demonstrations)

- Introduction to software user interfaces (Ranger 2 USBL, Fusion LBL, SPRINT INS)
- USBL Calibration (CASIUS)
- LBL Calibration
- INS & DVL Calibration
- Tracking vehicles and assets using USBL, LBL and acoustic aided INS
- Basic system settings and operation