



Fusion 2 combines the world's most popular Long Baseline (LBL) acoustic positioning system with our trusted INS architecture, thus removing the interfacing complexity of two separate systems. Fusion 2 utilises 6G+ and Wideband3® acoustic hardware and protocols and improves the efficiency of tracking a target by embedding sensor measurement updates into the ranging cycles.

As well as improved conventional LBL calibration methods, Fusion 2 is also capable of indirect ranging or "Fast LBL", significantly improving position updates for mobile transponders as used on structures.

COURSE OBJECTIVES

This online course provides the basic theoretical knowledge together with a thorough practical understanding of the operation of Sonardyne's Fusion 2 LBL software utilising our latest 6G+ subsea acoustic positioning hardware. The course covers all aspects of LBL survey through trainer-guided practical hands-on scenarios using Fusion 2 LBL software and simulators via remote access online.

WHO SHOULD ATTEND?

- Hydrographic Surveyors
- Survey Engineers

COURSE DURATION

Comprises five 2.5hr live online sessions with our trainer, each preceded by some Pre-Learning Material that we send out in advance to be reviewed and completed in the candidate's own time.

Session 1 - 'Group Session' for up to 6 people (Overview of Fusion 2 software and live demonstration of LBL workflows)

Sessions 2-4 - One-to-One/two-to-one Practical Sessions (Guided practical scenarios, candidate using Fusion 2 LBL in remote access mode via video conferencing tools)

Session 5 - One-to-One Competency Assessment

BOOKING AND CONFIRMATION

Details of course dates and current availability of places can be found at the Training Course section of Sonardyne's website:

www.sonardyne.com/products/training

To reserve a place on a course, please email: training@sonardyne.com

Other info

Upon successful completion of the assessment candidates will be sent a "Fusion 2 LBL competency certificate".

COURSE SYLLABUS

Theory

- Introduction to Sonardyne & Acoustic positioning systems.
- Long Baseline Positioning Principles
- Calibrations and Processing
- 6G+ Command Language & TS9 info
- Error Theory
- Sonar Equation & System Diagnostics

Practical

- Fusion 2 Hardware setup and Configuration (serial and acoustic testing)
- Fusion 2 Software configuration (LBL)
- Baseline Calibration and Boxins (conduct & QC)
- LBL & Fast LBL Tracking
- 6G+ Compatt setup and configuration
- Application of Sound Speed Profiles, Tidal Variation and Environmental Factors
- Tracking Diagnostic Tools (travel times)
- Application of Geodesy, Convergence and Scale Factor
- Troubleshooting and Support procedures