

Survey: Single beam Echo sounders

ST-SBE

Target group This course is not only intended for people who have no previous experience with single beam echo sounders, but also for people who already work with single beam systems and want to gain more in-depth knowledge or brush up their knowledge.

Preliminary training Using / knowledge of single beam sounding systems in actual practice or the "Survey: Introduction Hydrografy" course.

Contents This course deals with the principles, installation and how to use single beam echo sounders. The course provides more background information and insight into external criterions for the operational use of echo sounders. Also the essential, relevant subject matters from underwater acoustics and positioning will be dealt with.

The following subjects are dealt with:

- Underwater acoustics: Sound velocity, Frequency, Transducers, Beam width
- Mechanical sounding systems: Plumb line, Electronic depth sounder
- Acoustic systems: Echo sounders, Multi-channel echo sounders, Scanning Profiler, Parametric echo sounder, Sub Bottom Profiler, Sound velocity meter
- Setup and working: Measuring principle, Components of the echo sounder, Detection method
- Installation en Calibration: Transducer installation, Beam angle measurement, Bar check
- Use: Measuring gradients, measuring holes and obstacles, Pulse width, ship's motions.
- Interpretation: Soil structure, echograms, processing of soundings, wrongly manipulating of data.

Duration 1 day, lessons from 09.00 to 16.30

Price € 390,00 exclusive VAT
including lunch, book(s)/handouts

Starting date On request

Completion Certificate of attendance

Particulars If there is sufficient interest, the course can – on request for a quotation – be given at any desired location.

Information STC-BV
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