

Survey: Underwater Acoustics

ST-UA

Target group	The course is particularly intended for people who work directly or indirectly with hydrographic surveys at which acoustic systems are used.
Preliminary training	none.
Contents	<p>This course provides a clearer insight into underwater acoustics in relation to hydrographic measurements. The main purpose of the course is to gain an insight into the (proper) working of acoustic systems. The main topics are sound, interaction between sound and medium, generating and receiving sound and applications of sound. Furthermore, further consideration will be given to the specific characteristics of various acoustic systems for gathering data as well as for positioning.</p> <p>The following subjects are dealt with:</p> <ul style="list-style-type: none">• Sound parameters• Interaction with the medium: Sound velocity, diffraction, weakening and interference• Generating and receiving sound: Transducers• Sound in acquisition systems: Echo sounder, Sub Bottom Profilers, Side Scan Sonar, Sector Scan Sonar, ADCP• Sound at positioning: LBL, USBL, Doppler sonar• Other systems: communication, acoustic camera, sound velocity meter
Duration	1 day, lessons from 09.00 to 16.30
Price	€ 390 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. Parts of this course are also dealt with in <i>inter alia</i> the courses multibeam echo sounder, underwater positioning and single-beam echo sounder.
Information	STC-BV Lloydstraat 300 3024 EA Rotterdam Tel. +31 10 4486000 or 4486433 Fax +31 10 4486029 E-mail wiegman@stc-r.nl www.stc-bv.nl www.stc-group.nl

