

Skilltrade

From Introduction Hydrography to Certified courses

Our services



- Hydrographic training and courses since 2000
- Developed by people who gained their experience in the field and taught by those same individuals
- Skilltrade provides courses and training in three areas:
 - Introductory and general courses
 - E-learning modules
 - Hydrographic Survey Category B programme

Our organisation



- Huibert Jan Lekkerkerk, B.Sc. Hydrography / Cat. A (1995),
 B.Ee Maritime Electronics (1997), M.Sc. Geographical Information Management and Applications (2012)
- Guus Verhagen, BSc Maritime Science (2004), MICS, Pedagogic didactics (2002)
- Jan Appelman, Hydrography, Cat. A (1986), Navigation officer / Charge surveyor
- Axel de Meijer, Cat. B, owner G2 survey company
- Christa Ravensbergen, management assistant
- Johan Stam, managing director
- Pool of 16 skilled and experienced lecturers

IHO accredited Category B course



- Skilltrade Category B programme has been officially recognised as such on the 1st July 2008
- In 2016 our programme received continued recognition as a FIG/IHO/ICA Class B Hydrographic Survey Programme in accordance with the Standards of Competence for Hydrographic Surveyors FIG/IHO/ICA S-5, Edition 11.1.0 including e learning modules

IHO accredited Category B course



 Intense course of 30 weeks, a 12 week course in The Netherlands, preceded by a 13 weeks e-learning program and 1 week safety course.

Block	ı	II-0	II-1	II-2	II-3	III	IV	
Week	1 – 13	14	15 - 18	19 – 25	26	27 - 30	30 – max. 185	
Modules	E-Learning	Safety induction	Basic modules	Essential and Optional modules	Educational Survey Project (ESP)	Field Training Project (FTP)	Field Proficiency Period (FPP)	
Outcome	Eligible to enter Cat.B Course	BOSIET + OLF- supplement Universal Basic Survival	 Skilltrade 	line Cert. Cert. of Attenda e Cert. of Educa		FIG/IHO/ICA Cert. of Course Completion	FIG/IHO/ICA Cert. of Field Proficiency	

Cat B Workshops includes:



- Port of Rotterdam
- Royal Dutch Navy
- Rijkswaterstaat section North Sea
- Software by QPS International well known
- Van Oord workshop
- Visit to an actual Dredging project
- "Stay in touch with latest technology"

E-Learning Courses



Since 2015 we offer the following E-Learning courses:

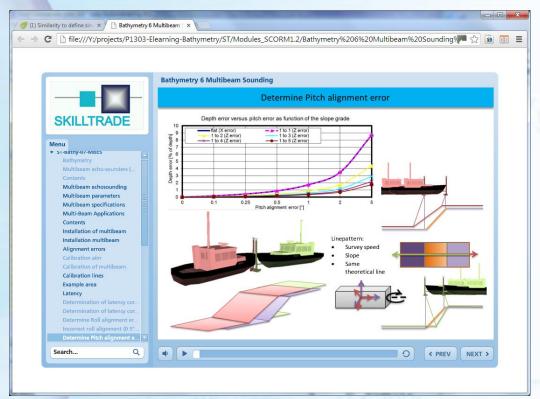
- Mathematics
- Physics
- Bathymetry
- Geodesy
- Global Navigation Satellite Systems

E-Learning Courses



With the Moodle Mobile app the content of these courses is available, even when offline.

Contact us for a free two week trial



CAT B Course schedule



										13 weeks e-lear	ning										
	3.	SKILLTRA	ADE.				A progra	m which provid		comprehension				with the skill t	o carry out the	various		-	Nova Regionasi Op	Colleg	e
	4-sep-17				e wk01		U	11-sep-17	-		course			-	18-sep-17	-			se wk03		-
Morning	Mon 31 Mathematics	B4 Nautical Skills	E 4 Types of Hydrographic Surveys	Thu Nautical Skills	practical exercise	Sat	Sun	Mon Nautical Skills	Tue Mathematics	Wed Mathematics	B3 Physics	Exam - B1 Maths	Sat	Sun	Mon Physics	Physics	Wed	Thu Exam - B3 (part 1) Physics	Fri	Sat	Sun
Afternoon	Mathematics	Mathematics	B1 Theory of Errors	Mathematics	(tides, level & positioning)	Social program		Nautical Skills	Mathematics	workshop Port of Rotterdam	Physics	B4 Meteo			Physics	Workshop - Hydrografic Service	Nautical	O2 workshop - STEMA	B4 Meteo		
after 16:00								B4 practical - knots / splicing								Sulvice		STEWA			
	25-sep-17			cours	ie wk04			2-okt-17			course	e wk05			9-okt-17			cour	se wk06		
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Morning	Exam - B4 Nautical Science	Physics II	Physics II	Exam - B3 (part 2) Physics	B2 ICT - databases &			E1 Underwater acoustics &	Underwater acoustics & Singleheam	E7 Law of the	E2 Waves, Streams and	E3 Geodesv			E2 Tides	E2 Tides	E5 Online Survey Software	E1 Side	E3 Mot		
Afternoon	Physics II	Physics II	Physics II	E3 Workshop lxBlue	GIS ESRI			Singlebeam	E5 Online Survey Software	sea	Currents						E2 Processing of Tidal influences	Scan Sonar	+Geodesy		
after 16:00													<			NOVA	school holiday		1st Course evaluation		>
	16-okt-17 Mon	Tue	Wed	cours	e wk07 Fri	Sat	Sun	23-okt-17 Mon	Tue	Wed	course Thu	wk08 Fri	Sat	Sun	30-okt-17 Mon	Tue	Wed	cour Thu	se wk09 Fri	Sat	Sun
Morning	E3 Horizonta	Positioning -	E3 Acoustic Positioning	Exams - E2 & E7	E1 Multibeam			E3Practical -	E3 Horizontal Control - calculations	E6 Environmental	Exam - E1	E3 Horizontal			E6 Earth	E5 Online	Exam-E6	Hydrographi c Specification	E3 Horizontal Positioning		
Afternoon	(LMK theory ar	nd calculations)	(Sonardyne Guest speaker)	E4 Workshop - Teledyne Reson	Echo - sounder			Horizontal Control:	E5 Online Survey Software	Science	E6 Workshop Periplus	Positioning - GPS			Science	Survey software	O2 workshop - Van Oord & Boskalis	s and Project preparation	GPS practical		
after 16:00									Resit exam		y	·									
	6-nov-17 Mon	Tue	Wed	cours	e wk10 Fri	Sat	Sun	13-nov-17 Mon					Sun	20-nov-17 Mon	Tue	Wed	course wk12 Thu Fri Sat Sun				
Morning		E5 Online	Exam - E3	E4 Practical -		om	3011	O 4Rigs,	Tue Exam E-4	Wed O4 Pipeline and			Sat rK, HJL & AdM	Suil	E4 Full day CARIS Workshop + Sliedrecht -	RWS	Education	Software - Exam E5 (QPS)	Logbooks & 2nd Course Evaluation	Sill	Suil
Afternoon	Workshop Ocean Wise	Survey software	B2 ICT - Networking	soldering & fault finding & data telemetry	O2 Coastal Zone			Platforms, Drilling Terminology	E4 VanOord workshop	Cable Operations & ROV	E4 Full day CARIS Workshop + Sliedrecht	RWS		Education Sur	rvey Project, Fri Group 2	K, HJL & AdM	Project - Processing & Reporting	Resit exam	Certificate/ Diploma ceremony		
after 16:00						_					group 2 JST							Evening program	Celemony		
	27-nov-17		wk13 -	Module-4	200	4-dec-17	in.		Module-4		11-dec-17	1287		Module-4	1200	18-dec-17			wk16 - Module	9-4	
Mon Tue Wed Thu Fri SAID safety training (Beween 21st and 25th September 2017)										Fri											
Readily, Coedhart, v Sijp, Schiphorst, Brouwer (Nova College) Rob van Ree Hulbert-Jan Lekkerkerk Johan Stam or Guus Verhagen Piet de Jong Fred Knijf Herman Hultema Peter v Oz. Hinus Koolman Axet de Meijer, Hobert van Lit, Seger vd Brenk Ebellen van der Velde Ebellen van der Velde Gorge Sposistar (ESRI) guest lecturer Sonandryne Ester Grootjans (Gaz de France)					Exams: Basic-1 Basic-2 (part of E5) Basic-3 (part of E5) Basic-3 (part 1) Basic-3 (part 1) Basic-4 Exercise-1				Date: 15-sec-17				Workshops Port of Fotberdam Royal Dutch Navy Stema workshop meteo biblus workshop ESRI Teledyne Reson VanCord & Boskalis Oceanwise VanCord workshop RIWS Northory RIWS NOR			Date: 13-sep-17 19-sep-17 21-sep-17 22-sep-17 28-sep-17 29-sep-17 19-okt-17 26-okt-17 1-nov-17 14-nov-17 16-nov-17 16-nov-17	21-nov-17 20-nov-17 19-nov-17				





















12 weeks theoretical training



- The inclusion of e-learning created option to add new technology to the Basic modules
 - GIS (in cooperation with ESRI and Ocean Wise)
 - Fault finding (Kongsberg and ITC)
- QPS training including certificate (online and processing)
- The course includes a concise Educational Survey Project

Field Training Project



- After completion of the 12-week theoretical course in IJmuiden, the student needs to gain at least 4 weeks experience in a fully supervised Field Training Project in a qualified survey organisation
- Qualified Assessor and Skilltrade Verifier
- FTP-Task book
- FTP reflects the level of knowledge outlined in the Skilltrade-Nova College Category B syllabus
- After successful completion of this project the student is awarded the FIG/IHO/ICA Certificate of Programme completion.

Field Proficiency Period



- After successful completion of the FTP, the candidate may join a max. 3-year Field Experience phase to consolidate hydrographic knowledge and to obtain the necessary practical experience as a hydrographic surveyor.
- Field Experience should accumulate to a total of 365 operational days, that are logged in a Task book.
- After successful completion of Field Experience the student is awarded the FIG/IHO/ICA Certificate of Field Proficiency.
- Equals IMCA grade I Senior Surveyor

Certificates



After successful completion of 12 week theoretical training in The Netherlands

QINSy Online Certificate

Skilltrade Certificate of Education

After completion of Field Training Project FIG/IHO/ICA Cert. of Course Completion

After completion of Field Proficiency Period FIG/IHO/ICA Cert. of Field Proficiency

Results



Up to and including June 2019 (23 rd Class)		
Number of students	196	100%
Failed and/or stopped	21	10,7%
Skilltrade Cert. of Education	175	89,3%
FIG/IHO/ICA Cert. of Programme Completion	154	78,6%
FIG/IHO/ICA Cert. of Field Proficiency	69	35,2%

Future developments

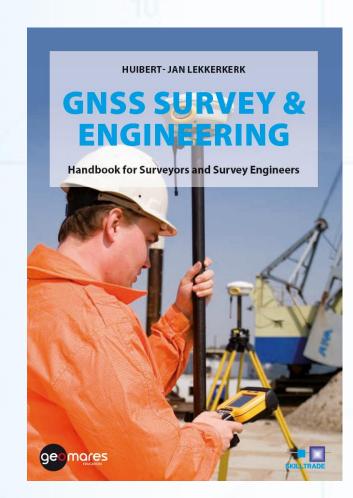


- MOU signed with university of: Halifax and AAST in Alexandria, Egypt
- Cooperation with Geo ICT (HND education for Land surveyors via E Learning)
- Involved with webinars to introduce Hydrography profession
- Cooperation with Maritime Institute Willem Barentsz to provide a CAT A in English (in progress

Publications



- New book GNSS Survey & Engineering.
- Updated Handbook of Offshore Surveying





"Since being accepted, both my theoretical and practical knowledge has developed considerably, with many opportunities to progress"





After graduation: "The candidate is then considered to be Graduate level and is ready and prepared for a full-time role"





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