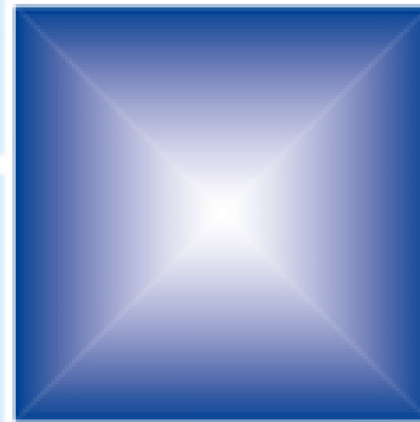


Changing market requirements for competence and certification for the hydrographic surveyor



SKILLTRADE



SKILLTRADE

Specialized in hydrographic training for the hydrographic survey, dredging and offshore industry since 2000

Jan Appelman,
Skilltrade Logbook Verifier

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 IHO-Category B programme

Competence and certification

- Rijkswaterstaat and Port of Rotterdam in The Netherlands, the UK Ministry of Defence, government Middle East require minimum IHO-Cat B of their sub-contractors
- Nautical charts need to be certified all over the world for safer shipping routes
- Standards of Competence for Hydrographic Surveyors - IBSC
- IMCA provides “Competence” guidelines for operational functions; such as divers, ROV personnel and hydrographic surveyors.

Our accredited Category B course



- Skilltrade Category B programme has been officially recognised as such on the 1st July 2008
- Recently 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

Our accredited Category B course



- Intense course of 30 weeks, a 12 week course in IJmuiden, preceded by a 13 weeks E Learning program.
- The curriculum is compiled with weekly workshops, transfer of technology and a practical project (Educational Survey Project-ESP)
- After completion of the course in IJmuiden (NLD) a 4-week Field Training Project (FTP) required

Block	I	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	<ul style="list-style-type: none"> • QINSy Online Cert. • Skilltrade Cert. of Attendance, or Skilltrade Cert. of Education 			FIG/IHO/ICA Cert. of Course Completion	FIG/IHO/ICA Cert. of Field Proficiency

E-Learning Courses

Since 2014 we offer the following E-Learning courses:

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

Category B Curriculum

13 weeks e-learning

A program which provides a practical comprehension of hydrographic surveying for individuals with the skill to carry out the various hydrographic surveying tasks

Nova College
Regionaal Opleidings Centrum

	course wk01							course wk02							course wk03							
	5-sep-16	6-sep-16	7-sep-16	8-sep-16	9-sep-16	10-sep-16	11-sep-16	12-sep-16	13-sep-16	14-sep-16	15-sep-16	16-sep-16	17-sep-16	18-sep-16	19-sep-16	20-sep-16	21-sep-16	22-sep-16	23-sep-16	24-sep-16	25-sep-16	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Morning	B1 Mathematics	B4 Nautical Skills	E4 Types of Hydrographic Charts	Mathematics	practical exercises (hydrographic positioning)	Social program		Mathematics	Mathematics	Mathematics	B3 Physics	Exam - B1 Maths			Physics	Physics	Nautical Skills	E7 Law of the sea	Exam - B3 (part 1) Physics			
Afternoon	Mathematics	Mathematics	B1 Theory of Errors	Nautical Skills				B4 Meteor	Nautical Skills	Physics	B4 Meteor	Workshop - Hydrographic Services			Physics	B4 Meteor		Nautical Skills	Nautical Skills	Workshop - HIS		
after 16:00												Jan								guest		

	course wk04							course wk05							course wk06							
	26-sep-16	27-sep-16	28-sep-16	29-sep-16	30-sep-16	1-oct-16	2-oct-16	3-oct-16	4-oct-16	5-oct-16	6-oct-16	7-oct-16	8-oct-16	9-oct-16	10-oct-16	11-oct-16	12-oct-16	13-oct-16	14-oct-16	15-oct-16	16-oct-16	17-oct-16
	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 I	Physics I	E7 Law of the sea	Exam - B3 (part 2) Physics			E1 Underwater acoustics & Singlebeam	Underwater acoustics & E4 Workshop Reson	E2 Waves, Streams and Currents	B2 ICT - databases & GIS Workshop EDRI	E3 Geodesy			E5 Online Survey software	E6 Environmental Science	E3 Acoustic Positioning (Sonardyne Guest speaker)	E5 Online Survey software	E3 Mol + Geodesy			
Afternoon	Physics II	Physics II	Workshop Port of Rotterdam	Physics II	E5 workshop - iBlue			practical knotting & splicing														1st Course evaluation
after 16:00	johan																					

	course wk07							course wk08							course wk09							
	17-okt-16	18-okt-16	19-okt-16	20-okt-16	21-okt-16	22-okt-16	23-okt-16	24-okt-16	25-okt-16	26-okt-16	27-okt-16	28-okt-16	29-okt-16	30-okt-16	31-okt-16	1-nov-16	2-nov-16	3-nov-16	4-nov-16	5-nov-16	6-nov-16	7-nov-16
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Morning	E2 Tides	E2 Tides	E5 Online Survey software	E1 Multibeam Echo sounder	Exams - E2 & E7			E3 Horizontal Positioning (LMK theory and calculations)		E1 Side Scan Sonar + working Party Principles	Exam - E1	E2 Horizontal Positioning GPS			E5 Online Survey software	E6 Exam Science	Hydrographic C and Project preparation	Exam - E6	E2 Coastal Zone			
Afternoon			E2 Processing of tidal influences		E5 Online Survey Software				Rest exam													
after 16:00	<-		NOVA	school holiday																		

	course wk10							course wk11							course wk12							
	7-nov-16	8-nov-16	9-nov-16	10-nov-16	11-nov-16	12-nov-16	13-nov-16	14-nov-16	15-nov-16	16-nov-16	17-nov-16	18-nov-16	19-nov-16	20-nov-16	21-nov-16	22-nov-16	23-nov-16	24-nov-16	25-nov-16	26-nov-16	27-nov-16	28-nov-16
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Morning	E3 Practical Horizontal Control	E3 Horizontal Control calculations	B2 ICT - Networking	E4 Practical - soldering & fault finding & data telemetry	E3 Horizontal Positioning GPS - practical			Exam P-3	O4 Pipeline and Cable Operations & ROV	Exam - E4	Education Survey Project, Fk, HLL & AdM Group 1			workshop RWS	1-day ICT - GIS - workshop - Sonardyne - 2016	Education Survey Project - Processing & Reporting	Logbooks & 2nd Course Evaluation					
Afternoon		Workshop Ocean Wave	E4 Practical - soldering & fault finding & data telemetry	Software - Exam B2 E5 (GPS)				E4 VanOord workshop		Rest exam	workshop RWS	E4 Practical - Soldering & Data Telemetry (exam 2-2016)		Education Survey Project, Fk, HLL & AdM - Group 2			O4 Figs, Platforms, Billing Terminology	Certificate Diploma ceremony				
after 16:00																		Evening program				

	wk13 - Module 4					wk14 - Module 4					wk15 - Module 4					wk16 - Module 4				
	28-nov-16	29-nov-16	30-nov-16	1-dec-16	2-dec-16	5-dec-16	6-dec-16	7-dec-16	8-dec-16	9-dec-16	12-dec-16	13-dec-16	14-dec-16	15-dec-16	16-dec-16	19-dec-16	20-dec-16	21-dec-16	22-dec-16	23-dec-16
	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri
	DELTA SAFETY safety training (Between 29th August and 2nd September 2016)																			
	Practical / Training / Trainee period																			

Reedijk, Goedhart, v Slijp, Schiphorst, Brouwer (Nova College)
 Rob van Ree
 Hubert-Jan Lekkerkerk
 Johan Stam, Guus Verhagen or Jan Appelman
 Piet de Jong
 Fred Knijf
 Sico Kamminga
 Ibo
 Axel de Melier, Robert van Lil, Sezer van den Brenk
 Cees Laban & Jan van Dalsen
 Ebelien van der Velde (GPS)
 Ed Esser & Johan van Schaak
 George Spoelstra (ESRI)
 guest lecturer Sonardyne
 Ester Grootjans (Gaz de France)



Exams:
 Basic-1
 Basic-2 (part of E5)
 Basic-3 (part 1)
 Basic-3 (part 2)
 Basic-4
 Essential-1
 Essential-2
 Essential-3
 Essential-4
 Essential-5
 Essential-6
 Essential-7
 Survey Project

Date:
 16-sep-16 Mathematics
 10-nov-16 ICT
 29-sep-16 Physics 1
 30-sep-16 Physics 2
 26-sep-16 Mmathical Science
 27-okt-16 Bathymetry
 21-okt-16 Water levels, currents and tides
 14-nov-16 Positioning
 16-nov-16 Hydrographic Practice
 10-nov-16 Hydrographic data (GPS)
 3-nov-16 Environmental Science
 21-okt-16 Legal Aspects
 17-nov-16 20-nov-16

Workshops:
 Port of Rotterdam
 Royal Dutch Navy workshop meteo
 ESRI
 iBlue
 Teledyne Reson
 Stema
 VanOord & Boskalis
 Occanwise
 VanOord workshop
 Caris - Dredging museum
 Northsea Museum

Date:
 14-sep-16
 20-sep-16
 23-sep-16
 29-sep-16
 30-sep-16
 4-okt-16
 21-okt-16
 26-okt-16
 27-okt-16
 9-nov-16
 14-nov-16
 18-nov-16 22-nov-16
 17-nov-16 21-nov-16

Field Training Project



- After completion of the 13-week theoretical course in IJmuiden, the student then 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

Results (up to April 8, 2016)

Up to and including the 18th class

Numbers of students	161	
Failed and/or stopped	21	13,0%
Category B Certificates Issued*	140	87,0%
*17 students (12%) succeeded after resits		
Logbook completed and Category B Diploma Issued	55	39,3%
Working on logbooks	43	30,7%
No logbook	42	30,0%

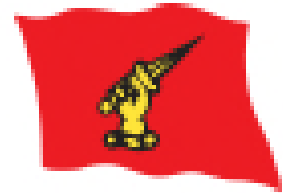
Competence

- Certificate of Field Proficiency and IMCA logbook to consolidate hydrographic knowledge and to obtain the necessary practical experience as a hydrographic surveyor.
- All supervised by Skilltrade in cooperation with the Education Board

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



BIBBY
OFFSHORE

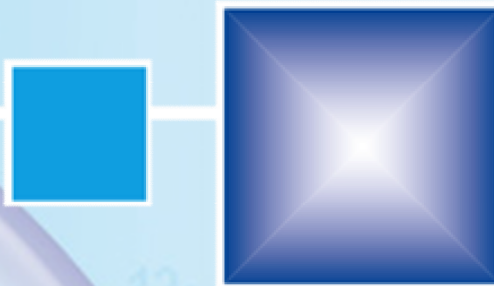


because we love this business'

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



SKILLTRADE



SKILLTRADE

Skilltrade BV

Phone: +31 (0)71 561 13 65

www.skilltrade.nl

jstam@skilltrade.nl

Office: Schoolstraat 174

2252 CN Voorschoten

The Netherlands

