



Title:

Education and Training: Knowledge Leads to Connections

Speaker:

Mr. Johan Stam Managing Director of Skilltrade BV

Date:

18 & 19 November 2019



















Skilltrade

From Introduction Hydrography to Certified courses

Hydrography in the future



- The function is specialized with charting as the primary objective:
 - Safe navigation
 - Data collection
 - Data mangement role
- But also:
 - Renewable energy, offshore projects, mining and water resources
 - Climate changes: sealevel rise, coastal defenses
- More authorities involved in hydrography
- Certification is no longer an option but a must

Skilltrade as a company



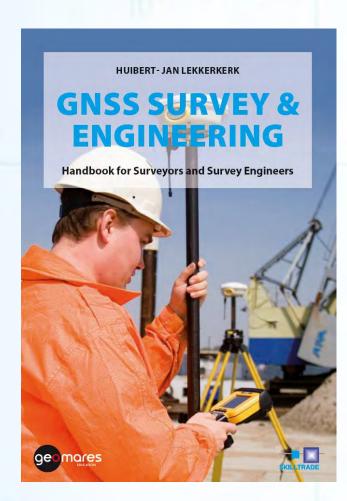
- Hydrographic training and courses since 2000
- Developed by people who gained their experience in the field and taught by those same individuals
- Books on surveying
- Skilltrade provides courses and training in three areas:
 - Introductory and general hydrographic courses
 - E-learning on hydrographic and positioning topics
 - IHO Category B recognized programme

Part of the lecture materials



- GNSS Survey & Engineering
- Handbook of Offshore Surveying





Our organisation





Johan Stam

Managing director

Guus Verhagen Course Coordinator BSc, MICS





Christa Ravensbergen Management support



Huibert-Jan Lekkerkerk

Principal lecturer

Cat A, MSc, BEe



Axel de Meijer

Practicals / lecturer

Cat B



Gerard Mallee Technical / lecturer MSc





16+ Subject lecturers



Jan Appelman Logbook verificator Cat A & B

CAT A vs CAT B



	Cat B	Cat A	
Educational level	ISCED level 4 / 5	ISCED level 6 / 7	
Aim	Operational (field)	Management (office)	
Duration	24+ weeks	40+ weeks	
Subjects	Basic, essential	Foundation, basic, essential	
Module level	Practical	Theoretical	
Final field project	Yes	Yes	
Certified?	Yes*	Yes	

- Cat B is more practical, shorter and delivers certified surveyors
- Skilltrade Cat B programme has been officially recognised since 2008

^{*} Note that some countries may require at least one Cat A surveyor per project / company



"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"

Cat-B set-up



- Maximum 12 students for practical lectures
- Maximum 16 students for theoretical lectures

- Course runs twice / year
- Next course (Class 24), January 2020

 Theoretical lectures, practical exercises, workshops, a final project and examinations

IHO accredited Category B course



Course duration of 30 weeks (12 parttime)

Block	T 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	 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	

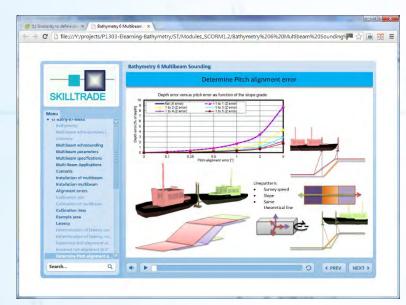
E-Learning Courses – Block I



Since 2015 we offer the following in-depth E-

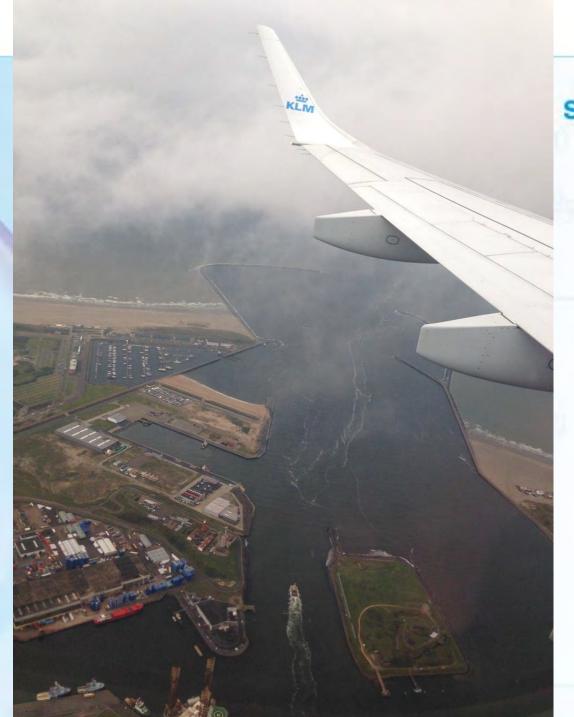
Learning courses:

- Bathymetry
- Geodesy
- GNSS



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

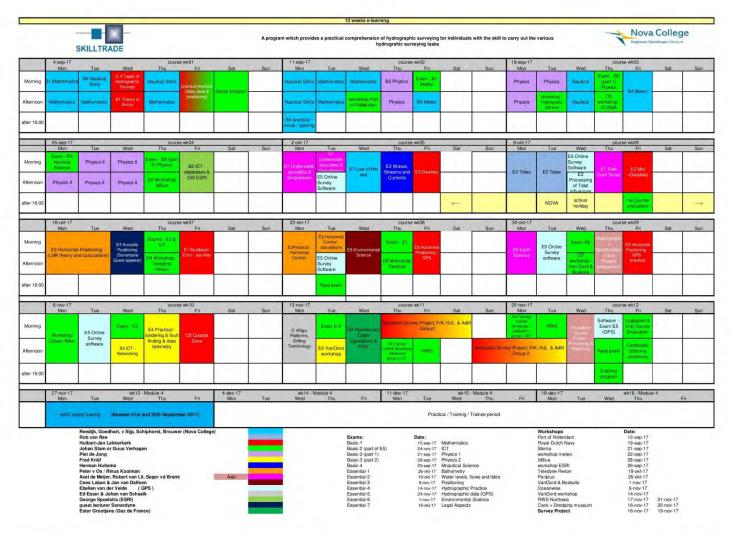
Contact us for a free two week trial





Cat B Course schedule Block II











Our Cat B Workshops



- Port of Rotterdam survey in real time
- Royal Dutch Navy head office
- Rijkswaterstaat section North Sea
- From the UK: Sonardyne and Oceanwise
- Software by QPS and Beaworkx
- Van Oord workshop at Moerdijk
- Visit to an actual Dredging project
- Stay in touch with latest technology







Field Training Project



- Field Training Project in a qualified survey organization under supervision of a qualified assessor and Skilltrade verifier
- FTP reflects the level of knowledge outlined in the Skilltrade-Nova College Category B syllabus
- FTP-Task book
- After successful completion of this 4-week FTP the student is awarded the FIG/IHO/ICA Certificate of Programme completion
- Most students return to their employer for their practical FTP.



Results



	-			
		Up to and including June 2019 (23 rd Class)		
		Number of students	196	100%
		Failed and/or stopped	21	10,7%
ı		Skilltrade Cert. of Education and QINSy	175	89,3%
		certificate (theoretical part)		
ı				
ı		FIG/IHO/ICA Cert. of Programme Completion	154	78,6%
ı		(Cat-B – including Field Training Project)		
		FIG/IHO/ICA Cert. of Field Proficiency	69	35,2%
		(Demonstrated 200 days of practical experience)		

Supervised entry to the Cat-B



- Whom to send first? Skilltrade approach:
 - Start with a local 10 day course for all interested. Course is concluded with a graded exam
 - Continue with graded e-learning assessment on Mathematics and Physics with local support.
 - After completion of the Mathematics and Physics, management will have a clear view on which student is ready to follow with Essential E-learning modules
 - After the E-learning a final decision is made who will proceed (first) to the 12 week classroom part of the course
 - Pending IHO approval: 4 week Basic modules taught locally. Essential training (8 weeks) in the Netherlands.

Why this approach?



- To introduce hydrography in an earlier stage without having to fully invest up front
- More local approach/less time abroad
- Use of available local resources (such as Abu Dhabi, Alexandria, Lagos, Curação)
- Greater chance of success for those attending the full Cat-B programme
- Network spreading to other areas More awareness for certification

New approach introduced to:



- Nigeria where it is now in place
- Kuwait via Regional agent
- Egypt via Peinso
- Kazakhstan via Stema Surveys
- South Africa via their Hydrographic Society
- Mexico in cooperation with the Dutch Navy
- Malaysia? Open for discussion at our P1 stand

NPA Lagos, August 2019





Future developments



- MOU signed with University UNB Fredericton in Halifax, Canada. Scholar-ship paid by Government
- MOU with AAST in Egypt to support Middle East education developments in Abu Dhabi
- PEJUTA: Visit to The Netherlands (courses and visits to projects and musea – water related
- Oman : Survey eqpt : maintenance course
- TenneT: Introduction to hydrography, including UXO surveys
- DronesCourse Survey Fundamentals 3 days
- E-learning: more interest as an introduction for new recruits (Andrews Surveys) on going





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