Appendix B

LOGBOOK OF PRACTICAL HYDROGRAPHIC SURVEYING EXPERIENCE – S- 5A / S-5B

Candidate (Applicant):

	ld/mm/yy)	Conso	lidation of C	Category B a s level of kn	and / or	Description ²	Competencies
From	То	Field Survey / Office Days ¹ Cat B	Field Survey / Office Days ¹ Cat A	Sea-time Days Cat B	Sea-time Days In Charge Cat A		Exercised ³
		0	0	0	0	Project Name/Task: Location: Vessel/Barge/Rig/Platform ⁴ Name: Particulars: Candidates Position: Candidates Responsibilities: Survey Equipment Utilised: Survey Equipment Utilised: Number of Survey related Personnel on Vessel: Including sub-contractors (not Ships Crew): Comments/Experience Gained:	<u>S-5B</u> <u>S-5A</u>
 If Project changes in Competen Competent Hydrograpi Platform vehicles of processin Senior Su 	the Comments sec ncies Exercised re ce for CAT A Hydro hic Surveyors for Le may refer to fixed v can be considered a g the data. upervisor should be ther '0' must be b	tion. late to the Found ographic Surveyors vel 2 (Appendix D wing or helicopter as 'Sea-time' only onsite however ma	dation and Hydr s for Level 1 or t to these Guidelir remote sensing if it refers to set ay be shore base	ographic Science he Essential Unii nes). S-5A or S-5I platforms and au ting up and opera d.	e units defined in S-5 B reference numt utonomous vehicl ating the vehicle	Senior Supervisor ⁵ : Ss significant changes occur. Note any n IHO Publication S-5A Standards of 3 Standards of Competence for CAT B bering is to be used. es. Remote Operation of autonomous and survey system. It does not include Then right click on totals and select	

LOGBOOK OF PRACTICAL HYDROGRAPHIC SURVEYING EXPERIENCE S- 5A / S-5B

Candidate (Applicant):

Summary Totals of Logbook Days

Field Survey / Office Days	Field Survey / Office Days	Sea-time Days	Sea-time Days In Charge
Category B	Category A	Category B	Category A

LOGBOOK OF PRACTICAL HYDROGRAPHIC SURVEYING EXPERIENCE – S- 5A / S-5B

(Example 1)

	e (Applicant)	Conso		Category B a			
From	ld/mm/yy) To	Categor Field Survey / Office Days ¹ Cat B	y A syllabus Field Survey / Office Days ¹ Cat A	s level of kn Sea-time Days Cat B	owledge Sea-time Days In Charge Cat A	. Description ²	Competencies Exercised ³
06/03/19	08/03/19		3			Project Name/Task: West Channel Port Development	<u>S-5A</u>
11/03/19	14/03/19		0		4	Location: Seaforth Harbour Vessel/Barge/Rig/Platform ⁴ Name: SMB 'Dolphin'	H4.1(a-b), H4.2(a-c,f-g), H4.3d
15/03/19	16/03/19		2		0	Particulars: LOA: 15m; Draft: 1m; GRT: n/a; Ships Crew: 2; Inshore survey/dive vessel (Class 2C).	
20/03/19	23/03/19		0		4	Candidates Position: Senior Surveyor / OIC on vessel	F1.3(b-d), F1.4(a-b)
26/03/19	29/03/19		0		4	Candidates Responsibilities : Responsible for mobilising testing and calibrating all navigation and geophysical equipment.	H1.2(d-e), H6.1(a-c), H6.2(a-
31/03/19	03/04/19		0		4	Survey Equipment Utilised: Multibeam, Echosounder, Side scan sonar, Bottom sampler	e), H7.1b
05/04/19	06/04/19		0		2		
16/04/19	20/04/19		5			H2.2 (a-d), H2.3 (a-b), H2.4(a- d), H.25	
						 Comments/Experience Gained: Analysis of tidal data for region of survey from recent and historic surveys. Checked historic field coordinates & geodetic transformation values for identification & integration of historic channel and seabed obstacles Contouring seabed bathymetry & data processing. Responsible for desk study on seabed sediment movement in port region particularly survey area with emphasis on future dredging works. Responsible for final report, signed off by Survey Manager 	H5.2a, 5.2b,H5.3a H5.4(b-c) H6.2(a-e) H7.1(a-b) H7.3(a-c)
Total	Days ⁶	0	10	0	18		
 If Project changes in Competenc Hydrograft Platform r vehicles c processing Senior Su 	the Comments sect ncies Exercised reli- te for CAT A Hydro nic Surveyors for Ler may refer to fixed v an be considered a g the data. pervisor should be of ber '0' must be be	ion. ate to the Found graphic Surveyor vel 2 (Appendix D ving or helicopter is 'Sea-time' only onsite however ma	dation and Hydr s for Level 1 or t to these Guidelir remote sensing if it refers to set ay be shore base	ographic Science the Essential Unii nes). S-5A or S-5I platforms and ar ting up and oper d.	e units defined i ts defined in S-51 B reference numb utonomous vehic ating the vehicle	ss significant changes occur. Note any Senior Supervisor ⁵ : Rob Stokes Sig n IHO Publication S-5A Standards of B Standards of Competence for CAT B pering is to be used. Position: Survey Project Manager Sig les. Remote Operation of autonomous and survey system. It does not include Company: O&G Marine Pty Ltd Date: 20 th May 2019 Then right click on totals and select Senior Supervisor ⁵ : Rob Stokes Sig	

LOGBOOK OF PRACTICAL HYDROGRAPHIC SURVEYING EXPERIENCE S- 5A / S- 5B

(Example 2)

Dates (d	d/mm/yy)	Conso Categor	lidation of 0 y A syllabu	Category B a s level of kn	and / or owledge	Description ²	Competencies Exercised ³
From	То	Field Survey / Office Days ¹ Cat B	Field Survey / Office Days ¹ Cat A	Sea-time Days Cat B	Sea-time Days In Charge Cat A		
06/03/19	09/03/19	4				Project Name/Task: South Passage Geophysical Well Site & Pipeline Route Survey	<u>S-5B</u>
11/03/19	30/03/19	0		20		Location: NW Shelf Australia Vessel/Barge/Rig/Platform ⁴ Name: MV "Survey Tide"	E3.1a-c, E3.2a – c)
31/03/19	03/04/19	4				Particulars: LOA: 75m; Draft: 5m; GRT: 1,200mt, 7,500Hp; Ships Crew: 14; Vessel registered in	<u>S-5A</u>
07/04/19	20/04/19				14	Panama, Classed ABS Candidates Position: Senior Shift Surveyor & Relieving Party Chief	H4.1(a-b), H4.2a, H4.2c,
21/04/19	26/04/19		6			Candidates Position. Senior Sint Surveyor & Relieving Party Chief Candidates Responsibilities: Responsible for mobilising, testing & calibrating all navigation and geophysical equipment. Assisted with pulse test on boomer and logging preparation samples for further onshore lab analysis	H4.2d, 4.3(c-d)
						Survey Equipment Utilised:	F1.3(b-e), H1.2d
						Multibeam, Echosounder, Velocimeter, Side scan sonar, USBL system, Sub bottom profilers including pinger, boomer and sparker, Bottom sampler and Magnetometer Number of Survey related Personnel on Vessel: Including sub-contractors (not Ships Crew): 12 Comments/Experience Gained:	H1.2 (a-e), H1.4(a-d), H1.5a H2.4(a-d), H6.1(a-b),
Total	Days ⁶	8	6	20	14	 Analysis of tidal and oceanographic data for region of survey from recent and historic surveys. Cotidal chart compilation and stream study using satellite imagery data Checked historic field coordinates & geodetic transformation values for identification of existing wellhead locations. Supervised & checked digital data base and DTM for final report compilation 	H5.2 (a-c). H5.3b, H5.4(a-c), H5.5(a-b) H6.2(b-e) H7.1(a-b) H7.3(a-c) H8.2(a-b)
 If Project the Commeter for CAT A Surveyors f Platform n can be co data. Senior Su 	ents section. Incies Exercised relat Hydrographic Surv for Level 2 (Appendinay refer to fixed win nsidered as 'Sea-tir pervisor should be o	te to the foundati eyors for Level 1 x D to these Guid ng or helicopter n ne' only if it refer onsite however ma	on and Hydrogra I or the Essentia elines). S-5A or S emote sensing pl s to setting up ar ay be shore base	phic Science uni al Units defined i S-5B reference nu atforms and auto nd operating the v d.	ts defined in IHO n S-5B Standard Imbering is to be nomous vehicles vehicle and surve	Inificant changes occur. Note any changes in Senior Supervisor ⁵ : Rob Stokes Senior Supervisor ⁵ : Rob Stokes Publication S-5A Standards of Competence ds of Competence for CAT B Hydrographic used. Position: Survey Project Manager Company: O&G Marine Pty Ltd Date: 20 th May 2019	

Summary Totals of Logbook Days

Only one 'Summary Totals of Logbook Days' should be provided. The summary is the total of multiple logbook 'Total Days' for the one applicant therefore, the example below is based on the final total of the two example sheets above.

Field Survey / Office Days	Field Survey / Office Days	Sea-time Days	Sea-time Days In Charge
Category B	Category A	Category B	Category A
8	16	20	32

LOGBOOK OF PRACTICAL HYDROGRAPHIC SURVEYING EXPERIENCE S5 – Ed 11

(Example 3)

Dates (c	ld/mm/yy)			Category B a s level of kn		Description ²	Competencies
From	То	Field Survey / Office Days ¹ Cat B	Field Survey / Office Days ¹ Cat A	Sea-time Days Cat B	Sea-time Days In Charge Cat A		Exercised ³
06/03/07	08/03/07		3			Project Name/Task: West Channel Port Development	O2.6, O2.1, O2.7, O2.5, O1. E4.1b, E4.2(a,b)
11/03/07	14/03/07		0		4	Location: Seaforth Harbour Vessel/Barge/Rig/Platform ⁴ Name: SMB 'Dolphin'	05.4
15/03/07	16/03/07		2		0	Particulars: LOA: 15m; Draft: 1m; GRT: n/a; Ships Crew: 2; Inshore survey/dive vessel (Class 2C).	
20/03/07	23/03/07		0		4	Candidates Position: Senior Surveyor / OIC on vessel	
26/03/07	29/03/07		0		4	Candidates Responsibilities : Responsible for mobilising testing and calibrating all navigation and geophysical equipment. All online navigation operations to meet job specifications. Assisted with	E3.2(h), E5.3(b)
31/03/07	03/04/07		0		4	divers' reconnaissance of cable crossings.	
05/04/07	06/04/07		0		2	Survey Equipment Utilised: Multibeam, Echosounder, Side scan sonar, Bottom sampler	
16/04/07	20/04/07		5			Number of Survey related Personnel on Vessel: Including sub-contractors (not Ships Crew): 2 dive personnel joined temporarily on 20 & 22 March 2007 Comments/Experience Gained:	E1.2 (a - f), E1.3(a,b), E1.4(a d)
Tota	I Days ⁶	0	10	0	18	 Analysis of tidal data for region of survey from recent and historic surveys. Checked historic field coordinates & geodetic transformation values for identification & integration of historic channel and seabed obstacles Contouring seabed bathymetry & data processing. Responsible for desk study on seabed sediment movement in port region particularly survey area with emphasis on future dredging works. Initial volumes determination. Responsible for final report, signed off by Survey Manager 	O7.6 O2.4, O7.2, O7.5 E3.1(b - e)
2. If P cha 3. Con CA 4. Pla doc 5. Ser 6. The	anges in the Comme mpetencies Exercise mpetence for CAT A T B Hydrographic Su tform may refer to onomous vehicles c es not include process nior Supervisor shou	ange during Proje nts section. d relate to the fc A Hydrographic Si urveyors for Level fixed wing or h an be considered sing the data. Id be onsite howe	pundation and Hy urveyors for Leve 2 (Appendix D to helicopter remote as 'Sea-time' on ver may be shore	ydrographic Sciel el 1 or the Essen these Guidelines e sensing platfor ly if it refers to se e based.	nce units defined tial Units defined s). S-5A or S-5B r ms and autono etting up and ope	ess significant changes occur. Note any Senior Supervisor ⁵ : Rob Stokes Sig d in IHO Publication S-5A Standards of d in S-5B Standards of Competence for reference numbering is to be used. mous vehicles. Remote Operation of rating the vehicle and survey system. It Position: Survey Project Manager Sig Company: O&G Marine Pty Ltd Date: Then right click on totals and select Senior Supervisor ⁵ : Rob Stokes Sig	

LOGBOOK OF PRACTICAL HYDROGRAPHIC SURVEYING EXPERIENCE S5 – Ed 11

(Example 4)

Dates	Dates (dd/mm/yy)			Category B a s level of kn		Description ²	Competencies
From	То	Field Survey / Office Days ¹ Cat B	Field Survey / Office Days ¹ Cat A	Sea-time Days Cat B	Sea-time Days In Charge Cat A		Exercised ³
06/03/06	09/03/06	4				Project Name/Task: South Passage Geophysical Well Site & Pipeline Route Survey	E4.1(c), E4.2(b,c), E4.3, E4.4, E4.5 E7.3(a)
11/03/06	30/03/06	0		20		Location: NW Shelf Australia Vessel/Barge/Rig/Platform ⁴ Name: MV "Survey Tide"	
31/03/06	03/04/06	4				Particulars: LOA: 75m; Draft: 5m; GRT: 1,200mt, 7,500Hp; Ships Crew: 14; Vessel registered in	
07/04/06	20/04/06				14	Panama, Classed ABS	E5.1 to E5.4(a)
21/04/06	26/04/06		6			Candidates Position: Senior Shift Surveyor & Relieving Party Chief Candidates Responsibilities: Responsible for mobilising, testing & calibrating all navigation and geophysical equipment. Assisted with pulse test on boomer and logging preparation samples for further onshore lab analysis	E3.1(a) to E3.2(a) E3.2(e) to E3.4 O4.4, O4.5
						Survey Equipment Utilised: Multibeam, Echosounder, Velocimeter, Side scan sonar, USBL system, Sub bottom profilers including pinger, boomer and sparker, Bottom sampler and Magnetometer Number of Survey related Personnel on Vessel: Including sub-contractors (not Ships Crew): 12	E1.1(a to c), E1.1(f,g)E1.2(a to g) E1.3(a,b) E1.4(a to d) E1.5(b,c) O3.1
						 Comments/Experience Gained: Analysis of tidal and oceanographic data for region of survey from recent and historic surveys. Cotidal chart compilation and stream study using satellite imagery data Checked historic field coordinates & geodetic transformation values for identification of existing wellhead locations. 	E2.1 to E2.5(c) E6.2, E6.2(a) E6.2(f) to E6.3(c)
Tota	al Days ⁶	8	6	20	14	6. Supervised & checked digital data base and DTM for final report compilation	
2. If cl 3. C C 4. P a d 5. S 6. T	hanges in the Comme ompetencies Exercise ompetence for CAT A AT B Hydrographic Su latform may refer to utonomous vehicles c oes not include proces enior Supervisor shou	ange during Proje nts section. ed relate to the fc A Hydrographic Si riveyors for Level fixed wing or h an be considered sing the data. Id be onsite howe	pundation and H urveyors for Leve 2 (Appendix D to helicopter remote as 'Sea-time' on ver may be shore	ydrographic Scie el 1 or the Esser these Guideline: e sensing platfoi ly if it refers to se e based.	nce units defined tial Units defined s). S-5A or S-5B rms and autono etting up and ope	less significant changes occur. Note any Senior Supervisor ⁵ : Rob Stokes Sign d in IHO Publication S-5A Standards of d in S-5B Standards of Competence for reference numbering is to be used. Position: Survey Project Manager Sign mous vehicles. Remote Operation of erating the vehicle and survey system. It Company: O&G Marine Pty Ltd Date: 20 th November 2006 . Then right click on totals and select Company: 2006 Company: 2006	nature: <u>R Stokes</u>

Summary Totals of Logbook Days S5 – Ed 11

Only one 'Summary Totals of Logbook Days' should be provided. The summary is the total of multiple logbook 'Total Days' for the one applicant therefore, the example below is based on the final total of the two example sheets above.

Field Survey / Office Days	Field Survey / Office Days	Sea-time Days	Sea-time Days In Charge
Category B	Category A	Category B	Category A
8	16	20	32