

# CBSC10-10B

## Approved Capacity Building Requirements 2013 2017

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***ANNEX A***  
***“CAPACITY BUILDING REQUIREMENTS”***  
***(based on information received from the***  
***RHCs)***

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## Approved Capacity Building Requirements 2013 2017

### INTRODUCTION

The following pages are intended to capture the training and development needs for the region in support of the international capacity building initiative. There are a range of programmes and courses available that provide opportunities for hydrographic organizations and their employees. The information provided will enable the IHO Capacity Building Sub-Committee to make informed decisions on training requirements and enable the appropriate training and development opportunities to be appropriately planned. The information provided will help inform future decisions and planning but do not ensure future attendance and acceptance onto a programme. Other training and development needs maybe identified which cannot be matched to the courses listed. These needs can be identified in textual form under "Other" on the following pages so as to ensure all training requirements are articulated and understood.

### PROPOSED CBWP 2013

#### 1.- Technical and Advisory Visits

##### a) High level technical visit to governmental authorities

RHC	MACHC	NIOHC	RSAHC	SWAtHC	SWPHC
Countries	Dominica and St Vincent & Grenadines. Panama	Sudan and Eritrea	Iraq	Bolivia	Samoa, Tonga

##### b) Technical assessment and advice visit

RHC	EAHC	SWPHC
Countries	Brunei and DPRK	Kiribati, Vanuatu

#### 2.- Technical Workshops, Seminars, Short Courses

RHC	EAHC	MACHC	NIOHC	RSAHC	SAIHC	SWPHC
Phase 1 Skills: MSI course (3 days) plus introduction to the assessment and promulgation of navigationally significant data (2 days)	X	X			X	
Basic Hydrographic Survey Course (10 days)	X	X			X	X

Basic ENC and ENC Production course (10 days)	X		X	X		
Law of the Sea Workshop (5 days)		X			X	
MSDI and Database Management (5 days)	X	X			X	
Seabed Classification workshop (5 days)	X					
Module 1 - Marine Cartography of the CAT B Cartographic Course (5 weeks)	X					
Module 2 - Hydrographic Data Processing of the CAT B Cartographic Course (5 weeks)	X					X
Module 3 - Electronic Navigational Charts (ENC) of the CAT B Cartographic Course (5 weeks)	X					

### 3.- Other

	EAHC	SEPHC	SWAHC	SWPHC
Technical Workshops on HDP		X	X	
Technical Workshop on S-100	X	X		
Representation at Pacific Islands Maritime Administration (PacMA)				X
National Hydrographic Capability Development				Solomon Islands

### PROPOSED CBWP 2014

#### 1.- Technical and Advisory Visits

##### c) High level technical visit to governmental authorities

RHC	MACHC	NIOHC	SAIHC	SWAHC
Countries	Nicaragua & Panama	Jordan	Repeat visits of selected coastal states	Paraguay

##### d) Technical assessment and advice visit

RHC	EAHC
Countries	Vietnam & Cambodia

#### 2.- Technical Workshops, Seminars, Short Courses

RHC	EAHC	MACHC	NIOHC	RSAHC	SAIHC	SWPHC
Phase 1 Skills: MSI course (3 days) plus introduction to the assessment and promulgation of navigational significant data (2 days)	X		X	X		
Basic Hydrographic Survey Course (10 days)	X		X	X		
Basic ENC and ENC Production course (10 days)	X	X			X	

Law of the Sea Workshop (5 days)	X		X			
MSDI and Database Management (5 days)			X	X		
Tides and water level workshop (5 days)	X					X
Module 1 - Marine Cartography of the CAT B Cartographic Course (5 weeks)	X					X
Module 2 - Hydrographic Data Processing of the CAT B Cartographic Course (5 weeks)	X					
Module 3 - Electronic Navigational Charts (ENC) of the CAT B Cartographic Course (5 weeks)	X					X

### 3.- Other

RHC	EAHC	SEPHC	SWAtHC	SWPHC
Technical Workshops on Hydro /Carto River Survey		X		
Technical Workshop on Print on Demand			X	
Technical Workshop on S-100	X			
Representation at Pacific Islands Maritime Administration (PacMA)				X
Hydrographic Administration Training Placements within Regional HO				X
National Hydrographic Capability Development				Vanuatu

## PROPOSED CBWP 2015

### 1.- Technical and Advisory Visits

e) High level technical visit to governmental authorities

RHC	MACHC
Countries	Repeat visits of selected coastal states

f) Technical assessment and advice visit

RHC	EAHC	SWAtHC	SWPHC
Countries	Brunei and DPRK	Bolivia	Samoa & Tonga

### 2.- Technical Workshops, Seminars, Short Courses

RHC	EAHC	MACHC	NIOHC	RSAHC	SAIHC	SEPHC	SWPHC
Phase 1 Skills: MSI course (3 days) plus introduction to the assessment and promulgation of navigationally significant data (2 days)	X	X			X		

Basic Hydrographic Survey Course (10 days)	X	X			X		
Basic ENC and ENC Production course (10 days)	X		X	X			
Port and Shallow Water Survey Course (5days)							X
MBES Processing (5 days)						X	
MSDI and Database Management (5 days)	X	X			X		
Tsunami inundation mapping workshop (5 days)	X						
Seabed Classification workshop (5 days)	X						
Module 1 - Marine Cartography of the CAT B Cartographic Course (5 weeks)	X						
Module 2 - Hydrographic Data Processing of the CAT B Cartographic Course (5 weeks)	X						X
Module 3 - Electronic Navigational Charts (ENC) of the CAT B Cartographic Course (5 weeks)	X						

### 3.- Other

RHC	SWAtHC	SWPHC
Technical Workshop on LAT & Dynamical application of Tides to ECDIS	X	
Representation at Pacific Islands Maritime Administration (PacMA)		X
National Hydrographic Capability Development		Cook Islands, Kiribati

### PROPOSED CBWP 2016

#### 1.- Technical and Advisory Visits

##### g) High level technical visit to governmental authorities

RHC	NIOHC	RSAHC	SAIHC
Countries	Repeat visits of selected coastal states	Repeat visits of selected coastal states	Repeat visits of selected coastal states

##### h) Technical assessment and advice visit

RHC	EAHC	SWAtHC
Countries	Vietnam & Cambodia	Paraguay

#### 2.- Technical Workshops, Seminars, Short Courses

RHC	EAHC	MACHC	NIOHC	RSAHC	SAIHC	SWAtHC	SWPHC
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Phase 1 Skills: MSI course (3 days) plus introduction to the assessment and promulgation of navigationally significant data (2 days)	X		X	X			
Basic Hydrographic Survey Course (10 days)	X		X	X			X
Basic ENC and ENC Production course (10 days)	X	X			X		
Law of the Sea Workshop (5 days)	X			X			
MSDI and Database Management (5 days)	X		X	X		X	
Tides and water level workshop (5 days)	X						
Module 1 - Marine Cartography of the CAT B Cartographic Course (5 weeks)	X						
Module 2 - Hydrographic Data Processing of the CAT B Cartographic Course (5 weeks)	X						
Module 3 - Electronic Navigational Charts (ENC) of the CAT B Cartographic Course (5 weeks)	X						X

### 3.- Other

RHC	SEPHC	SWAtHC	SWPHC
Technical Workshops on Coastal Survey with Lidar	X		
Technical Workshop on S-100		X	
Representation at Pacific Islands Maritime Administration (PacMA)			X
National Hydrographic Capability Development			Tonga

### PROPOSED CBWP 2017

#### 1.- Technical and Advisory Visits

i) High level technical visit to governmental authorities

RHC	MACHC	NIOHC
Countries	Repeat visits of selected coastal states	Repeat visits of selected coastal states

j) Technical assessment and advice visit

RHC	EAHC
Countries	Brunei & DPRK

#### 2.- Technical Workshops, Seminars, Short Courses

RHC	EAHC	MACHC	NIOHC	RSAHC	SAIHC	SWPHC

Phase 1 Skills: MSI course (3 days) plus introduction to the assessment and promulgation of navigationally significant data (2 days)	X	X			X	X
Basic Hydrographic Survey Course (10 days)	X	X			X	
Basic ENC and ENC Production course (10 days)	X		X	X		
Law of the Sea Workshop (5 days)					X	
MSDI and Database Management (5 days)		X			X	
Tsunami inundation mapping workshop (5 days)	X					
Tides and water level workshop (5 days)	X					X
Seabed Classification workshop (5 days)	X					
Module 1 - Marine Cartography of the CAT B Cartographic Course (5 weeks)	X					
Module 2 - Hydrographic Data Processing of the CAT B Cartographic Course (5 weeks)	X					
Module 3 - Electronic Navigational Charts (ENC) of the CAT B Cartographic Course (5 weeks)	X					

### 3.- Other

RHC	SEPHC	SWAHC	SWPHC
Technical Workshops on Offshore Survey	X		
Technical Workshop on role of HOs on e-Navigation strategy		X	
Representation at Pacific Islands Maritime Administration (PacMA)			X
National Hydrographic Capability Development			Samoa

Note: Programs highlighted in Green all together constitute the IHO Cat "C" "Course".