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| **Phase** | **Activity** | **Project Objective** | **Target Audience** |
|  | **Technical and Advisory Visits** |  |  |
| 0.1 | High level visit to governmental authorities | To raise government awareness of  their SOLAS treaty obligations | Related Ministries and Heads of National Agencies, particularly governmental decision makers |
| 0.2 | Technical assessment  and advice visit | Provide advice to identify how coastal states meet their hydrographic and MSI responsibilities Agencies. | Maritime Sector National Stakeholders and decision makers |
| 0.3 | Technical  Implementation Visit | To audit the state of recommendations made as a result of previous technical visits | Maritime Sector  National  Agencies.  Stakeholders and  decision makers |
| 0.4 | Seminar on Raising Awareness of Hydrography | Maritime Sector National Agencies. | Stakeholders and decision makers |
|  | **Technical Workshops, Seminars, Short Courses** |  |  |
| 1.1 | MSI Course (3 days)  Training on establishment of MSI  structure and basic MSI procedures | To establish a core group of trained  persons to deal with MSI | MSI Practioners |
| 1.2 | Phase 1 Skills (5 days) An introduction to the assessment and  promulgation of navigationally significant data | To provide a core group with the  skills and knowledge to assess and  promulgate navigationally significant  information to the wider maritime  community (this course supports the  MSI course) | MSI Practioners |
| 1.3 | MSI Workshop (3 days) | To reinforce the learning at 1.1  above | MSI Practioners |
| 2.1 | Basic Hydrographic  Survey Course (10  days) | To provide awareness of national  hydrography, hydrographic  surveying and nautical cartography | Maritime Sector Decision Makers |
| 2.2 | Port and Shallow Water Survey Course (5 days) | A workshop to aid exchange of  information and ideas about the  challenges faced by port and  shallow water surveyors in the  RSAHC region | Port Surveyors |
| 2.3 | MBES Processing (5  days) | To train a group of hydrographic  surveyors the techniques required  to post-process MBES data | Hydrographic  Practioners |
| 2.4 | MSDI and Database  Management (5 days) | To give participants an  understanding of spatial data  infrastructures (SDI) including the  importance and role of data  management and databases | Government Planners |
| 2.5 | Tides and Water Level  Workshop (5 days) | To provide fundamental knowledge  and understanding of tides and  water level, and their applications  for hydrographic surveying and  mapping activities | Hydrographic Practioners |
| 2.6 | Seabed Classification  Workshop (5 days) | To provide a group of professionals  with the skill and knowledge to use  acoustic techniques to map  extensive seabed surfaces and to  determine the products of seabed  mapping | Hydrographic Practioners |
| 3.1 | Basic ENC and ENC  Production course (10  days) | To train a group of professionals  with a practical introduction to S-57  data | Cartographic Practioners |
| 3.2 | ENC Production and QA  (5 days) | To train a group of professionals to  verify and validate S-57 data | Cartographic Practioners |
| 4.1 | Law of the Sea  Workshop (5 days) | To teach participants the basic  technical principles applicable to  maritime boundary delimitation.  The delegates should be from  technical hydrographic or  cartographic backgrounds | Maritime Sector Decision Makers |
| 4.2 | Tsunami inundation  mapping workshop (5  days) | To improve the modelling and  presentation of regional tsunami  inundation maps | Maritime Sector and emergency  planning |
| 4.3 | Foundation Module of  the Marine Cartography  & Data Assessment  (MCDA) CAT B Course (3 weeks) | To provide participants with the  knowledge of cartographic basics  covering the underlying details of  the nautical chart. | Cartographic Practioners |
| 4.4 | Compilation Module of  the Marine Cartography  & Data Assessment  (MCDA) CAT B Course  (5 weeks) | A highly practical module where the  student will compile into a database  all the relevant nautical chart  content in compliance with IHO S-  57 using CARIS S-57 Composer  software. | Cartographic Practioners |
| 4.5 | Product Construction  Module of the Marine  Cartography & Data  Assessment (MCDA)  CAT B Course (2  weeks) | This module covers the production  of an ENC base cell including ENC  validation and exchange set  creation using CARIS S-57  Composer together with the  production of a Paper Chart using  CARIS Paper Chart Composer. | Cartographic Practioners |
| 4.6 | Data Assessment  Module of the Marine  Cartography & Data  Assessment (MCDA)  CAT B Course (3  weeks) | This module focuses on decision  making and processing of new  information using software and  traditional checking processes. | Cartographic Practioners |
| 4.7 | Maintenance Module of  the Marine Cartography  & Data Assessment  (MCDA) CAT B Course  (2 weeks) | Another highly practical module  which features Notice to Mariner  updating of digital and paper  products together with New Edition  maintenance of the ENC and Paper  Chart. | Cartographic Practioners |
|  | **Long Courses and**  **Programmes** |  |  |
| HA | Category “A”  Hydrographic  Programme | A recognized CAT A level  Programme in accordance with IHO  Publication S-5 – *Standards of*  *Competence for Hydrographic*  *Surveyors* | Hydrographic Managers |
| HB | Category “B”  Hydrographic  Programme | A recognized CAT B level  Programme in accordance with IHO  Publication S-5 – *Standards of*  *Competence for Hydrographic*  *Surveyors* | Hydrographic Practioners |
| CA | Category “A” Nautical  Cartography Programme | A recognized CAT A level  Programme in accordance with IHO Publication S-8 – *Standards of*  *Competence for Nautical*  *Cartographers* | Cartographic Managers |
| CB | Category “B” Nautical  Cartography Programme | A recognized CAT A level  Programme in accordance with IHO  Publication S-8 – *Standards of*  *Competence for Nautical*  *Cartographers* | Cartographic Practioners |
|  | **On-the-job and**  **onboard training** |  |  |
| OJ | On-the-job training |  |  |
| OB | Onboard training |  |  |