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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 oftheir SOLAS treaty obligations | Related Ministries and Heads of National Agencies, particularly governmental decision makers |
| 0.2 | Technical assessmentand 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 | TechnicalImplementation Visit | To audit the state of recommendations made as a result of previous technical visits | Maritime SectorNationalAgencies.Stakeholders anddecision 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 MSIstructure and basic MSI procedures | To establish a core group of trainedpersons to deal with MSI | MSI Practioners |
| 1.2 | Phase 1 Skills (5 days) An introduction to the assessment andpromulgation of navigationally significant data | To provide a core group with theskills and knowledge to assess andpromulgate navigationally significantinformation to the wider maritimecommunity (this course supports theMSI course) | MSI Practioners |
| 1.3 | MSI Workshop (3 days) | To reinforce the learning at 1.1above | MSI Practioners |
| 2.1 | Basic HydrographicSurvey Course (10days) | To provide awareness of nationalhydrography, hydrographicsurveying and nautical cartography | Maritime Sector Decision Makers |
| 2.2 | Port and Shallow Water Survey Course (5 days) | A workshop to aid exchange ofinformation and ideas about thechallenges faced by port andshallow water surveyors in theRSAHC region | Port Surveyors |
| 2.3 | MBES Processing (5days) | To train a group of hydrographicsurveyors the techniques requiredto post-process MBES data | HydrographicPractioners |
| 2.4 | MSDI and DatabaseManagement (5 days) | To give participants anunderstanding of spatial datainfrastructures (SDI) including theimportance and role of datamanagement and databases | Government Planners |
| 2.5 | Tides and Water LevelWorkshop (5 days) | To provide fundamental knowledgeand understanding of tides andwater level, and their applicationsfor hydrographic surveying andmapping activities | Hydrographic Practioners |
| 2.6 | Seabed ClassificationWorkshop (5 days) | To provide a group of professionalswith the skill and knowledge to useacoustic techniques to mapextensive seabed surfaces and todetermine the products of seabedmapping | Hydrographic Practioners |
| 3.1 | Basic ENC and ENCProduction course (10days) | To train a group of professionalswith a practical introduction to S-57data | Cartographic Practioners |
| 3.2 | ENC Production and QA(5 days) | To train a group of professionals toverify and validate S-57 data | Cartographic Practioners |
| 4.1 | Law of the SeaWorkshop (5 days) | To teach participants the basictechnical principles applicable tomaritime boundary delimitation.The delegates should be fromtechnical hydrographic orcartographic backgrounds | Maritime Sector Decision Makers |
| 4.2 | Tsunami inundationmapping workshop (5days) | To improve the modelling andpresentation of regional tsunamiinundation maps | Maritime Sector and emergencyplanning |
| 4.3 | Foundation Module ofthe Marine Cartography& Data Assessment(MCDA) CAT B Course (3 weeks) | To provide participants with theknowledge of cartographic basicscovering the underlying details ofthe nautical chart. | Cartographic Practioners |
| 4.4 | Compilation Module ofthe Marine Cartography& Data Assessment(MCDA) CAT B Course(5 weeks) | A highly practical module where thestudent will compile into a databaseall the relevant nautical chartcontent in compliance with IHO S-57 using CARIS S-57 Composersoftware. | Cartographic Practioners |
| 4.5 | Product ConstructionModule of the MarineCartography & DataAssessment (MCDA)CAT B Course (2weeks) | This module covers the productionof an ENC base cell including ENCvalidation and exchange setcreation using CARIS S-57Composer together with theproduction of a Paper Chart usingCARIS Paper Chart Composer. | Cartographic Practioners |
| 4.6 | Data AssessmentModule of the MarineCartography & DataAssessment (MCDA)CAT B Course (3weeks) | This module focuses on decisionmaking and processing of newinformation using software andtraditional checking processes. | Cartographic Practioners |
| 4.7 | Maintenance Module ofthe Marine Cartography& Data Assessment(MCDA) CAT B Course(2 weeks) | Another highly practical modulewhich features Notice to Marinerupdating of digital and paperproducts together with New Editionmaintenance of the ENC and PaperChart. | Cartographic Practioners |
|  | **Long Courses and****Programmes** |  |  |
| HA | Category “A”HydrographicProgramme | A recognized CAT A levelProgramme in accordance with IHOPublication S-5 – *Standards of**Competence for Hydrographic**Surveyors* | Hydrographic Managers |
| HB | Category “B”HydrographicProgramme | A recognized CAT B levelProgramme in accordance with IHOPublication S-5 – *Standards of**Competence for Hydrographic**Surveyors* | Hydrographic Practioners |
| CA | Category “A” NauticalCartography Programme | A recognized CAT A levelProgramme in accordance with IHO Publication S-8 – *Standards of**Competence for Nautical**Cartographers* | Cartographic Managers |
| CB | Category “B” NauticalCartography Programme | A recognized CAT A levelProgramme in accordance with IHOPublication S-8 – *Standards of**Competence for Nautical**Cartographers* | Cartographic Practioners |
|  | **On-the-job and****onboard training** |  |  |
| OJ | On-the-job training |  |  |
| OB | Onboard training |  |  |