



INTERNATIONAL HYDROGRAPHIC ORGANISATION

TIDES AND WATER LEVELS TECHNICAL WORKSHOP



Enabling outcomes:

1. Definitions
 - a. Basic definitions
 - b. Tide Patterns
 - b. Tide Levels and Datums
2. Tide Fundamentals
 - a. Tide Raising Forces
 - b. Basic Tide Theory
 - c. Tide Pattern Generation
 - d. Major Factors That Affect Tide
3. Tidal Streams and Measurements
 - a. Tidal Streams/ Currents
 - b. Progressive and Standing Waves
 - c. Tide Levels and Datums
 - d. Introduction to Co- Tidal Charts
4. Observations, Equipment and Procedures
 - a. Types of Tide Gauges
 - b. Installing a Radar Tide Gauge
 - c. Measurements of Tidal Streams and Equipment Types
5. Tide Analysis and Predictions.
 - a. Introduction to Analysis, Errors and Prediction methods
 - b. Archiving of Data
6. Levelling in a Tide Gauge Practical
Calibrating the Equipment and Data

Assessment Criteria:

In Accordance with:

Standards of Competence for Hydrographic Surveyors (9th Edition, 2001)

By Means of:

Progress tests and Model answer sheet

Practical Assessment:

Draw a tidal Curve using Hourly Tidal Information and graph paper.

Demonstration:

How to level a tide gauge into the national benchmark system.

Problem solving and basic maintenance

Calibration of tide gauge

Note to Presenter:

Any hints, tips or variations available to the presenter

M-13 Chapter 5 Water Levels and Flow