DipHE HYDROGRAPHY FOR PROFESSIONALS

Level 4
- An Introduction to Hydrography and the Marine Environment
  - Studying effectively at a distance
  - Introduction to marine charts
  - Introduction to hydrography
  - Introduction to meteorology
  - Introduction to oceanography

Level 4
- Nautical Science
  - Scientific principles, study skills, research methods 1
  - Basic physics and sensors
  - Navigation, charts, projections & grids
  - ENCs & ECDIS
  - Types of survey, IHO specifications
  - Electronics & signal processing

Level 4
- Fundamentals of Hydrography
  - Satellite systems & positioning
  - Basic geodesy, projections and grids
  - Horizontal & vertical positioning
  - Acoustic fundamentals

Level 4
- Maritime Studies for Hydrography
  - Ships and basic ship behaviour
  - Legal boundaries & Law of Sea
  - Research methods 2
  - Managing the marine environment

Level 4
- Practical Techniques in Hydrography 1 (residential)
  - Mathematical techniques
  - Seamanship and boat handling
  - Assessed practical survey tasks
  - Manual and digital processing

Level 4
- EHYD101 An Introduction to Hydrography and the Marine Environment

Level 5
- Meteorology & Oceanography
  - Meteorology
  - Waves and tides, ocean circulation
  - Coastal science:
    - Estuaries
    - Beach processes
    - Sediment transport
  - Oceanographic sensors

Level 5
- Data Management & Charting
  - Sensors and instrumentation
  - Data collection, processing & statistics
  - Visualisation and presentation
  - Data management
  - Errors and uncertainty

Level 5
- Hydrography in Practice
  - Introduction to:
    - Nautical charting
    - Coastal engineering
    - Offshore construction
    - Inland waters hydrography
    - Surveying in practice
    - Research methods 2
    - Major project
  - Port management
  - Seismic surveying
  - Military hydrography

Level 5
- Practical Techniques in Hydrography 2 (residential)
  - Practical survey work
  - Calibration and control
  - Survey planning
  - Data processing and presentation
  - Teamwork and leadership