Degrees of success: Meeting professional standards through distance e-learning

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Education – An industry problem?

- Education requirement
- A remote, deployed workforce
- Huge cost associated with residential training
Total Learning Package contained on a USB stick

Need for an internet connection?

Tutor support

Online discussion area

Provision of books/journals?

The TLP!
Your Total Learning Package

Module 1
Faculty of Science and Technology

WELCOME

Meet the team & welcome pack
Welcome, please watch these videos and read through your virtual welcome pack before exploring any further.

The syllabus & assessment
Full course contents

Technical requirements
What you will need to view the content effectively on your system.

List of resources
Full list of video tutorials and documents for this course.
Concrete experience

Reflective observation

Active experimentation

Lectures
Tutorials/seminars
Practical sessions
Laboratory work
Assessment & exams

Forming concepts and general principles

The learning cycle, after Kolb et al., 1984.
The full time residential student

- Lectures
- Tutorials
- Practical sessions ashore
- Boat work
- Laboratory work – processing and visualisation
- Assessment
The distance e-learning student

- Lectures
- Tutorials
- Practical sessions ashore
- Boat work
- Laboratory work – processing and visualisation
- Assessment

Blended learning
DipHE HYDROGRAPHY FOR PROFESSIONALS

Key to levels:

4 Degree level Yr 1 (Certificate)
5 Degree level Yr 2 (Diploma)
P Practical residential

Progress review

Level 4 EHYD101
An Introduction to Hydrography and the Marine Environment
10 credits

Level 4 EHYD102
Nautical Science
30 credits

Level 4 EHYD103
Fundamentals of Hydrography
30 credits

Level 4 EHYD104
Maritime Studies for Hydrography
30 credits

Level 4 EHYD201
Meteorology & Oceanography
30 credits

Level 5 EHYD202
Data Management & Charting
30 credits

Level 5 EHYD203
Hydrography in Practice
30 credits

Level 4 EHYD105
Practical Techniques in Hydrography 1 (residential)
20 credits

Level 5 EHYD204
Practical Techniques in Hydrography 2 (residential)
20 credits
PgDip ADVANCED HYDROGRAPHY FOR PROFESSIONALS

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

Level 4 Bridging Module*
- Fundamentals of Hydrography
  EHYD103

Level 7
- Advanced Techniques in Hydrography 1 (residential)
  EHYD500
  20 credits

- Advanced Techniques in Hydrography 2 (residential)
  EHYD501
  20 credits

- Earth Science & Positioning
  EHYD502
  20 credits

- Sensors & Underwater Acoustics
  EHYD503
  20 credits

- Hydrographic Survey Practice & Management
  EHYD504
  20 credits

- Meteorology & Oceanography
  EHYD505
  20 credits

- Advanced Nautical Science for Hydrography
  EHYD506
  20 credits

Key to levels:
- 4: Degree level Yr 1 (Certificate)
- 4: Level 4 bridging module*
- 7: Masters level
- P: Practical residential

* = Additional modules to be studied depending on students' qualifications and experience. Please see DipHE Hydrography for Professionals syllabus for details of modules' content.
Does distance e-learning work?

- Well established

- Examples:
  - UK Open University
  - Royal Veterinary College

- Research indicates that people learn equally well, and achieve broadly equivalent results regardless of the method of delivery (Nistor et al., 2003; Bramble & Panda, 2008)

- The university perspective?
Meeting professional standards

Who evaluates performance and standards?

- Course team
- University, UK Quality Assurance Agency (QAA)
- External evaluators and advisers
- Professional bodies
- Employers
- Students!
The Hydrographic Academy student experience

“It’s great to have all the materials to be able to access the lectures and notes as and when I have time. It’s very comprehensive, there are a lot of materials and it’s a great opportunity for me to be able to study like this.”

“The content is easy to navigate through and it is very impressive. I was thinking there may be some key areas where I would need some extra information but that wasn’t the case. I am very impressed with the course content and materials”