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Title: PROFESSIONAL COMPETENCE 2
Status: Definitive
Code: **6104NAU** (128072)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
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Academic Level: FHEQ6 **Credit Value:** 20 **Total Delivered Hours:** 122
Total Learning Hours: 200 **Private Study:** 78

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	100
Tutorial	20

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	2000 word report on seafarer professional standards	40	
Exam	AS2	Navigation Exam	60	2

Aims

To evaluate the professional standards in seafarer training and to prepare students for higher professional Navigation qualification.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate the use of competence standards in seafarer training
- 2 Discuss consistency in training for the sea going phase of seafarer training
- 3 Assess the management of the navigation of seagoing vessels
- 4 Discuss the factors to be considered in planning passages for vessels

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Report	1	2
Exam	3	4

Outline Syllabus

To assist students in developing an understanding of the techniques of passage planning and demonstrate competency in appraising, planning, executing and monitoring a passage, incorporating the influence of weather.

- *Publications required for passage planning*
- *Selection of the appropriate route for a given passage*
- *Passage plan adjustments to allow for emergency situations*
- *Position fixing methods*
- *The accuracy and reliability of various position fixing methods*
- *The statutory and international requirements regarding navigation, navigational equipment and the qualifications and fitness of watchkeeping personnel*
- *Bridge Procedures for both Routine and Emergency Situations*

Plan and Conduct Safe Navigation

IALA systems of maritime buoyage;

radar and ARPA - practical use of, modes of operation, limitations, sources of error and parallel indexing

Establishing Safe Navigational Watchkeeping Arrangements and Procedures

a thorough knowledge of the principles of navigational watchkeeping at sea, including under pilotage, and watchkeeping at anchor and in port

a thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea

conduct in and near traffic separation schemes and vessel traffic service (VTS) areas;

understand the use of bridge equipment, including rate of turn indicators, course recorders, echo sounders and NAVTEX

knowledge and application of the ICS Bridge Procedures Guide

Response to Emergencies

*Response to Navigational Emergencies
use of the International Aeronautical and Marine Search and Rescue (IAMSAR)
Manual
(Volume III), distress and emergency signals
Search and Rescue (SAR) plans for passenger ships*

Preparation for MCA oral examination

Training programmes for seagoing personnel and their compliance with national and international requirements.

Ship board training and maintaining consistency

The use of simulators to reduce sea time requirements

The use of training ships to allow a consistent training experience

Maintaining welfare support in training environments

The move to onboard assessments to evidence continued competence

Learning Activities

Lectures, and tutorials.

Notes

This module is aimed at students progressing to the MCA Chief Mate STCW II/2 CoC and will include preparation for externally set professional navigation examination.