

## Liverpool John Moores University

Title: CHARTWORK AND TIDES  
Status: Definitive  
Code: **4518SAM** (119647)  
Version Start Date: 01-08-2016

Owning School/Faculty: Maritime and Mechanical Engineering  
Teaching School/Faculty: Maritime and Mechanical Engineering

Team	Leader
Barbara Kelly	Y

**Academic Level:** FHEQ4  
**Credit Value:** 24  
**Total Delivered Hours:** 64  
**Total Learning Hours:** 240  
**Private Study:** 176

### Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	36
Practical	12
Tutorial	12

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Chartwork Coursework	70	2
Exam	AS2	Tidal Calculations	30	2

### Aims

*To provide a detailed appreciation and understanding on the use, care and correction of charts and publications on board ship and to learn how to determine courses and tidal levels.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate the procedures necessary to ensure that all paper and electronic charts and publications are maintained and corrected.
- 2 Use Mercator Charts for visual position fixing methods.
- 3 Use chartwork techniques to find the adjustments to a vessel's course to take account of passage plan requirements.
- 4 Interpret navigational terms and derive courses and distances using charts.
- 5 Use tidal terminology and calculate the times and heights of tides worldwide.

### **Learning Outcomes of Assessments**

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

Chartwork Exam	1	2	3	4
Tidal Exam	5			

### **Outline Syllabus**

*Management, correction and care of charts and publications.*

*Navigational properties of charts.*

*Visual position fixing.*

*Compass error. Course to steer. ETA. Adjustments.*

*Mercator, Plane and Parallel Sailings.*

*Tidal theory. Time, height and stream calculations.*

### **Learning Activities**

Lectures and tutorial work in chart laboratory.

### **Notes**

This module delivers the knowledge necessary to understand the use of charts and tides as prescribed by STCW for Deck officers. For MCA exemptions for deck OOW CoC, students need to obtain 65% in both components.