

# NAVIGATION TRACK SYLLABUS

## **Week 1 // 26-March**

STCW Basic Training at an approved shore facility (skipped if already holding certificates)

## **Week 2 // 2-April**

Introduction to course and explain how things will progress towards written exams

Meteorology

- Sources of broadcast meteorological information
- Knowledge of terms used in shipping forecasts, including the Beaufort scale, and their significance
- Basic knowledge of fronts, High and Low pressures systems.
- Met practise exam paper exam paper #9

## **Week 3 // 9-April**

Detailed orientation, ship familiarization, and safety procedures induction

- Knowledge of all the safety equipment carried on-board, its stowage and use
- Fire precautions, firefighting technics and organization on-board
- Use of personal safety equipment, harnesses and life jackets
- Basic knowledge of rescue procedures including helicopter rescue
- Procedures when responding to an emergency
- Ability to send a distress signal, visually and by VHF radio

## **Week 4 // 16-April**

Introduction to seamanship, ship nomenclature, and living on-board

- General nautical terminology, parts of boats, sails and hull
- Knowledge of the properties of different types of ropes/lines on-board
- Knowledge of different knots and hitches and their uses
- Safe working practices when working aloft, in a confined space and in rough weather
- Safety and procedures during mooring operations

## **Week 5 // 23-April**

Practical training in nautical procedures and safe deck practices

- Characteristics of different types of anchor
- Anchoring safety and procedures
- Bridge procedures, helming and keeping a good look out
- Points of a compass and reporting to officer in charge of watch
- Basic buoyage and things to look out for, including navigation light configuration
- Basic understanding of Int. regulations for the prevention of collisions at sea
- Responsibility for avoiding pollution and protection of the environment

## **Week 6 // 30-April**

Introduction to regulations affecting navigation

- Introduction of International regulations for the Prevention of Collisions at Sea (Rule of road) and other key regulations that should be known for navigation.

Definition of position, course and speed

- Latitude and longitude
- Knowledge of standard navigational terms
- True bearings and courses

Navigational charts and publications

- Information shown on charts, chart symbols and representations of direction and distance
- Navigational publications in common use
- Chart corrections
- Navigational drawing instruments
- Chart familiarisation practise exam paper #2
- Review lessons and discuss Rule of road learnt, so far

## **Week 7 // 7-May**

Tides and tidal streams

- Tidal definitions, levels and datum
- Tide tables
- Use of Admiralty method of determining tidal height at standard ports and corrections to apply for secondary ports
- Use of tidal diamonds and tidal stream atlases for chartwork
- Tidal heights and tidal streams practise exam paper #3
- Review lessons and discuss Rule of road learnt, so far

## **Week 8 // 14-May**

Compass

- Application of variation
- Awareness of deviation and its causes
- Use of different types of compasses for taking bearings

Chartwork

- Dead reckoning and estimated position, including awareness of leeway
- Techniques of visual fixing
- Use of way points
- Course to steer
- Satellite-derived positions

Visual aids to navigation

- Lighthouses and beacons, light characteristics
- Chartwork: Position fixing practise exam paper #4
- Review lessons and discuss Rule of Road learnt, so far

## **Week 9 // 21-May**

### Passage planning

- Preparation of navigational plan for short coastal passages
- Meteorological considerations
- Use of way points on passage
- Importance of confirmation of position by an independent source
- Keeping a navigational record
- Precautions to be taken, and limitations in reduced visibility
- Practise exam paper #10
- Review lessons and discuss Rule of Road learnt, so far

## **Week 10 // 28-May**

### Pilotage

- Use of transits, leading lines and clearing lines
- IALA system of buoyage for Region A
- Use of sailing directions
- Pilotage plans and harbour entry
- Practise exam paper #7
- Review lessons and discuss Rule of Road learnt, so far

## **Week 11 // 4-June**

### Practise exam paper week & tutorials + Radar course

- Practise papers #5, 6, 8, 11 & 12 (if not already completed)
- Shot radar course and exam

## **Week 12 // 11-June**

### Examination week

- Exam prep – Monday 11<sup>th</sup> & Tuesday 12<sup>th</sup>
- Two 1.5 hour written exams – Wednesday 13<sup>th</sup>
- Wrap up – next steps? – Thursday 14<sup>th</sup>
- Graduation – Friday 15<sup>th</sup>
- Leave – from Saturday 16<sup>th</sup> onwards