



# Tradewinds Academy of Navigation

## Coastal Skipper And Yachtmaster<sup>®</sup>

### Course Syllabus



*N.B. The assumed level of knowledge before starting this course is the Day Skipper Shore-Based Course.*

	<b>Min. Time (hrs)</b>
<b>1. Position</b>	<b>6</b>
<ul style="list-style-type: none"><li>• Dead reckoning and estimated position</li><li>• Satellite-derived position</li><li>• Use of waypoints to fix position</li><li>• Radar fixes</li><li>• Techniques of visual fixing</li><li>• Fixes using a mixture of position lines</li><li>• Relative accuracy of different methods of position fixing</li><li>• Areas of uncertainty</li></ul>	
<b>2. The Magnetic Compass</b>	<b>2</b>
<ul style="list-style-type: none"><li>• Allowance for variation</li><li>• Change of variation with time and position</li><li>• Causes of deviation</li><li>• Swing for deviation (but not correction)</li><li>• Allowance for deviation</li><li>• Different types of compass</li></ul>	
<b>3. Tides</b>	<b>4</b>
<ul style="list-style-type: none"><li>• Causes of tide - Springs and Neaps</li><li>• Tide tables - sources</li><li>• Tidal levels and datum</li><li>• Standard and secondary ports</li><li>• Tide anomalies (Solent, etc.)</li></ul>	
<b>4. Tidal Streams</b>	<b>3</b>
<ul style="list-style-type: none"><li>• Sources of tidal information</li><li>• Tidal stream information in sailing directions and Yachtsmen's Almanacs</li><li>• Allowance for tidal streams in computing a course to steer</li><li>• Tide rips, overfalls and races</li><li>• Tidal observation buoys, beacons etc.</li></ul>	
<b>5. Buoyage</b>	<b>1</b>
<ul style="list-style-type: none"><li>• IALA system buoyage in Region A</li><li>• Limitations of buoys as navigational aids</li></ul>	
<b>6. Lights</b>	<b>1</b>
<ul style="list-style-type: none"><li>• Characteristics</li><li>• Ranges - visual, luminous and nominal</li><li>• Rising and dipping distances</li><li>• Light lists</li></ul>	



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<b>7. Pilotage</b>	<b>3</b>
<ul style="list-style-type: none"><li>• Harbour regulations and control signals</li><li>• Methods of pre-planning</li><li>• Clearing lines</li><li>• Use of soundings</li><li>• Transits and leading lines</li></ul>	
<b>8. GPS and Chart Plotters</b>	<b>3</b>
<ul style="list-style-type: none"><li>• Principles of operation and limitations of use</li><li>• Raster and vector charts</li><li>• Datum</li><li>• Importance of confirmation of position by an independent source and keeping a separate record of position</li><li>• Importance of paper charts</li></ul>	
<b>9. Echo Sounders</b>	<b>1/2</b>
<ul style="list-style-type: none"><li>• Principles of operation and limitations of use</li></ul>	
<b>10. Logs (Speed and Distance Measuring)</b>	<b>1/2</b>
<ul style="list-style-type: none"><li>• Principles of operation and limitations of use</li></ul>	
<b>11. Deck Log</b>	<b>1/2</b>
<ul style="list-style-type: none"><li>• Importance of log as yacht's official document</li><li>• Layout of log, hourly and occasional entries</li></ul>	
<b>12. Meteorology</b>	<b>6</b>
<ul style="list-style-type: none"><li>• Basic terms, the Beaufort Scale</li><li>• Air masses</li><li>• Cloud types</li><li>• Weather patterns associated with pressure and frontal systems</li><li>• Sources of weather forecasts</li><li>• Ability to interpret a shipping forecast, weatherfax and weather satellite information</li><li>• Land and sea breezes</li><li>• Sea fog</li><li>• Use of a barometer as a forecasting aid</li></ul>	
<b>13. Rule of the Road</b>	<b>1</b>
<ul style="list-style-type: none"><li>• A sound knowledge of the International Regulations for Preventing Collisions at Sea, except Annexes 1 and 3</li></ul>	



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**Min. Time (hrs)**

#### **14. Safety at Sea**

**2**

- Personal safety, use of lifejackets, safety harnesses and lifelines
- Fire prevention and fire fighting
- Distress signals
- Coastguard and Boat Safety Scheme
- Preparation for heavy weather
- Liferafts and helicopter rescue
- Understanding of capabilities of vessel and basic knowledge of stability

#### **15. Navigation in Restricted Visibility**

**1**

- Precautions to be taken in fog
- Limitations to safe navigation imposed by fog
- Navigation strategy in poor visibility

#### **16. Passage Planning**

**5**

- Preparation of charts and notebook for route planning and making, and use at sea
- Customs regulations as they apply to yachts
- Routine for navigating in coastal waters
- Strategy for course laying
- Use of waypoints and routes
- Use of weather forecast information for passage planning strategy
- Sources of local and national regulations

#### **17. Marine Environment**

**1/2**

- Responsibility to minimise pollution and protect the marine environment