

This 2-week course is designed to prepare mariners for testing at the 1600 ton master or mate level, or third mate unlimited. This class is intended for test preparation only. It does not satisfy any testing or assessment requirements. This level of licensing requires mariners to test at a USCG Regional Examination Center.

The course is designed for mariners who have already obtained at least a 100 ton license and are familiar with the USCG testing system. While it is possible to test at the USCG with an AB endorsement, students have higher rate of success if they have previously attended a 100-ton class to build a solid knowledge base and testing experience. It is recommended that students already have testing approval from the USCG prior to attending this course.

Ideally, mariners have started self-study before they arrive. They should review sample exams from the USCG National Maritime center website. Students are encouraged to work with prep programs such as Lapware, Sea Sources, Mariners Advancement, Captain Joes, etc.

It is assumed that mariners are familiar with Nav General, Deck General, Deck Safety and Rules, and do not need a class to review that material. Students should also be comfortable with basic chart plotting before arriving for class.

Material covered in this prep course is intended to build a foundation for the mariner who will continue to review, study, reinforce and build upon the subject matter as they prepare for their USCG exams. It is designed to give an overview of the vast examination topics but is **not all-inclusive**. This review course does not cover celestial navigation.

Much of the **class is focused on the Nav Problems Near Coastal test** (t-nav). The course includes time addressing stability (especially for the master candidates) and will explore topics from nav general and deck general that may be new- compared to the 100 ton versions of those tests. Time will be set aside for chart work and for students to practice and receive guidance on chart exam problems.

Most mariners will need time after the class to practice what they have learned before they are ready to test. The course moves quickly to cover everything in 10 days. There is not much time to become proficient in all testing areas. This class will provide a solid foundation for test preparation and an opportunity to ask questions and work through example problems.

Math is essential to this class. Mariners must be comfortable with algebra, (addition, subtraction, multiplication and division) manipulation of fractions, and the use of key functions on a scientific calculator (sin, cosine, tangent, square, square root, etc.)

Prerequisite skills to review for proficiency before class:

- Compass correction for Variation and Deviation (TVMDC)
- Distance/ Speed/ Time calculations
- Converting time in minutes to decimal hours and back
- Adding and subtracting time (hours, minutes, seconds)
- Adding and subtracting Latitude or Longitude (degrees, minutes, seconds)
- Converting fractions to decimals and back
- Measuring distance and direction on a chart

USCG Prerequisites to qualify for testing. ‡ (Not required to attend class):

Basic Fire Fighting within 5 years (BT or BT re-validation will cover)

Advanced Fire or revalidation within 5 years

Radar Observer*

(* Not required to qualify for the license, but if not completed license will be written with a “negative endorsement” which makes the license invalid on radar equipped vessels.)

Examinations required: ‡**Master/ Mate 500/1600 Near Coastal**

Q Code	Q Code Title	Questions	Passing Score
Master Mate			
Q100-	Q100 Rules of the Road: Inland and International	50	90
Q120-	Q136 Deck General	70	70
Q121-	Q137 Deck Safety	70	70
Q122-	N/A Deck Safety: Stability Problems	10	70
Q123-	Q138 Navigation General: Near Coastal *	70	70
Q125-	Navigation Problems: Chart Plot	10	90
	Q140 Navigation Problems: Chart Plot	15	87
Q126-	Q141 Navigation Problems: Near Coastal **	10	90

Master/ Mate 500/1600 Oceans

Q Code	Q Code Title	Questions	Passing Score
Master Mate			
Q124-	Q139 Navigation General: Oceans *	70	70
Q127-	Q142 Navigation Problems: Oceans ***	15	80

* Applicants will be given Nav Gen Ocean **OR** Near Coastal depending on route requested.

** Applicants for Near Coastal Endorsement will be given Nav Problems Near Coastal exam.

*** Applicants for Ocean endorsement will be given Nav Problems Oceans exam **and** Nav Problems Near Coastal exam.

‡ This information is for guidance only. Please consult USCG National Maritime Center for the most current information.