

# 37 Hour Advanced Navigation

## COURSE DESCRIPTION

This course when combined with an approved US Coast Guard ECDIS course is designed to meet the STCW-95, competencies for the function Navigation at the Management Level, Advanced Navigation as delineated in Table A-II/2 of the STCW Code and as specified in the U. S. Coast Guard's NMC Policy Letter Number 04-02 of January 11, 2002 covering the following advanced navigation principles

- conduct navigation using modern navigation systems
- determine position and the accuracy of resultant position fix using modern navigation systems.
- determine and allow for compass errors

## COURSE APPROVAL

This is a USCG approved course. The person successfully completing this course and provided that they have also completed a US Coast Guard certified ECDIS course within one year of this course, will have successfully demonstrated the STCW Function Navigation at the Management Level

(1), Plan and Conduct a Passage and Determine Position (Table A-II/2); and

(2) the following assessments reflected in the National Assessment Guidelines: M-1-4A, M-2-1A, M-2-1B, M-2-1D, M-2-1E, M-2-1F.

## COURSE SCHEDULE

	Day 1	Day 2	Day 3	Day 4	Day 5
<b>Morning</b>	Arrival, Introduction & Course Outline	Satellite Navigation. System (GPS/DGPS) (continued)	Principles of Magnetic Compass Errors and Corrections (continued)	Navigational Software Programs (Celestial, Mercator Sailing, Great Circle Sailing)	Assessments (continued)
	Satellite Navigation System (GPS/DGPS)	Gyro Principles Errors and Corrections			
<b>Afternoon</b>	Satellite Navigation. System (GPS/DGPS) (continued)	Gyro Principles Errors and Corrections (continued)	System under control of Master Gyro (Adaptive Steering Systems)	Course Review	Course Critique
		Principles of Magnetic Compass Errors and Corrections		Final Examination	
				Assessments	

## COURSE REQUIREMENTS

This course is principally intended for officers for certification as master and chief mate on ships of 500 gross tons or more. Trainees should have a minimum of six months watchkeeping experience as officer in charge of a navigation watch.