

At Zenith Maritime and National Maritime Courses of America, our merchant mariner license training courses not only meet current USCG - CFR requirements but also reflect industry needs for competent mariner training. Our in-class training materials include our own study guides and compact discs plus proven maritime educational publications and reference materials from around the world. Our license training courses generally go beyond the minimum number of hours of contact instruction mandated by the USCG. For example, most OUPV courses just meet the minimum standard of 56-hours set by the USCG. Our currently approved OUPV course is delivered in 63-hours, not including examination time.

### ZENITH MARITIME 63-HOUR OUPV NEAR COASTAL COURSE OUTLINE

Module	Subject	Hours
<b>1. Navigation General</b>	1.1 Navigation Pubs, Charts, ATONS	6.0
	1.2 Magnetic and Gyro Compasses	2.0
	1.3 Weather and Oceanography	4.0
	<b>Total Module Hours</b>	<b>12.0</b>
<b>2. Piloting</b>	2.1 Chart Reading - Navigation	12.0
	<b>Total Module Hours</b>	<b>12.0</b>
<b>3. Navigation Rules</b>	3.1 Introduction to Nav Rules	0.5
	3.2 General Rules	1.0
	3.3 Part B: Steering-Sailing Rules–Sec. I	3.0
	3.4 Part B: Steering-Sailing Rules-Sec. II	
	3.5 Part B: Restricted Visibility	
	3.6 Part C: Lights and Shapes	3.0
	3.7 Part D: Sounds and Light Signals	1.0
	3.8 Part E: Exemptions-Annexes	4.0
	<b>Total Module Hours</b>	<b>18.0</b>
<b>4.0 Deck Gen-Safety</b>	4.1 CFR General - UPV Rules and Regulations	3.5
	4.2 Pollution and Sanitation	
	4.3 Marlinspike and Seamanship	1.0
	4.4 Anchoring and Ground Tackle	1.5
	4.5 Ship Handling-Maneuvering	1.0
	4.6 Fire Fighting-Prevention	3.0
	4.9 Emergency Procedures-Lifesaving	1.5
	4.10 Marine Radiotelephone	7.5
	4.11 Small Marine Engines	1.0
	<b>Total Module Hours</b>	<b>21.0</b>
	<b>Total Instruction Hours (OUPV)</b>	OUPV Option instruction module contact instruction time

### ZENITH MARITIME 129-HOUR MASTER 100 TONS NEAR COASTAL COURSE OUTLINE

SUBJECT AREA	MASTER 100 MATE 200	LECTURE	PRACTICAL	TOTAL HOURS
<b>1.0 NAVIGATION</b>				
<b>2.0 PILOTING – CHARTING</b>				
1.1 - Charts, Navigation, Publications, and Notice to Mariners	2.0	1.0	1.0	
1.1.1 - US Aids to Navigation	3.5	2.5	1.0	
1.2 - Magnetic and Gyro Compasses, Error, and Correction (including determination of compass error by terrestrial observations)	4.0	3.0	1.0	
1.3 - Weather and Oceanography (Tides – Currents)	4.0	3.0	1.0	
1.4 - Electronic Navigation Equipment and Instruments	2.5	2.0	0.5	
2.1 - Chart Reading- Navigation, Latitude- Longitude, Direction, Course, and Distance	3.0	2.0	1.0	
2.1.1 - Lines-Of-Position, Cross Bearing Fixes, Running Fixes, Danger Bearings and Distance Off	4.0	2.5	1.5	
2.1.2 - CPA and Systematic plotting in collision avoidance	2.0	1.0	1.0	
2.1.3 - Time Calculations	1.5	1.0	0.5	
2.1.4 - Speed, Time, and Distance Calculations	2.0	1.0	1.0	
2.1.5 – Dead Reckoning	1.5	1.0	0.5	
2.1.6 - Set and Drift and Course-to-Steer	3.0	1.5	1.5	
2.1.7 – Underway practicum (compass error determination, cross bearing fixes on terrestrial objects, distance off, ETA, and current calculations)	8.0	3.0	5.0	
<b>1.0, 2.0 Totals:</b>	<b>41.0</b>	<b>24.5</b>	<b>16.5</b>	<b>41.0</b>
<b>3.0 NAVIGATION RULES</b>				
3.1 - COLREGS - US Inland Rules	24.0	21.0	3.0	
3.2 - Watch-keeping Principles	2.0	2.0		

3.3 - Navigation Safety Regulations (33 CFR 164)	2.0	2.0		
3.4 – Case Studies (The Rules in Fog, Special Circumstances, Good Seamanship, Proper Lookout, and Inevitable Accident)	4.0	2.0	2.0	
<b>3.0 Total:</b>	<b>32.0</b>	<b>27.0</b>	<b>5.0</b>	<b>32.0</b>
<b>4.0 DECK GENERAL &amp; SAFETY – ENVIRONMENTAL</b>				
4.1 - Maritime Rules and Regulations, viz., International Maritime Law, CFR (Title 33 & 46), Certification-Documentation of vessels, UPV, Inspected Vessels, T-Boats, Licensing and Discharge of Seaman, SOLAS, MARPOL, and Ship's Business	6.0	6.0		
4.2 - Marine Pollution and Ship's Sanitation	1.0	1.0		
4.3 - Marlinspike Seamanship	3.0	2.0	1.5	
4.3.1 - Purchases, Blocks and Tackle	2.0	1.5	0.5	
4.4 - Ship Stability	2.5	2.0		
4.4.1 - Trim, Change in Draft Due to Water Density, Stress, and Load Lines - Cargo Stowage and Security	1.0	1.0		
4.4.2 - Ship Construction	1.5	1.5		
4.5 - Anchoring	1.0	1.0		
4.5.1 - Mooring	1.0	1.0		
4.6 - Ship Handling: Turning, and Pivot Point (Single and Twin-Screw Vessels)	1.5	1.5		
4.6.1 - Ship Handling: Rivers and Shallow Waters	1.0	1.0		
4.6.2 - Ship Handling: Passing Vessels, Bank and Cushion Effects	1.0	1.0		
4.6.3 - Ship Handling: Berthing and Un-berthing, and Locking-through	1.0	1.0		
4.6.4 - Ship Handling: Wake Reduction	0.5	0.5		
4.6.5 - Ship Handling: Heavy Weather Operations	1.0	1.0		
4.6.6 - Practical Boat Maneuvering: (Underway practice, single or twin screw UPV) Docking, Un-	8.0	2.0	6.0	

docking, Turning, and General Maneuvering including practice of Williamson Turn for MOB Procedures, maneuvering signals.				
4.7 - Fire Fighting and Prevention: Classes of Fire, Systems, Basic Fire Fighting, Fire Drills, and Vessel Repairs-Alternation and Hot Work	2.5	2.5		
4.8 - Emergency Procedures, Vessel Safety, and Lifesaving: (Collision, Temporary Repairs, Passenger-Crew Safety, Fire-Explosion, Abandon Ship, MOB, Distress Signals, Survival at Sea, Life Saving Appliances, and UPV-T-Boat Regulations)	13.0	12.0	1.0	
4.9 - Marine Radio Telephone and Communications	2.5	2.0	0.5	
4.10 - Small Marine Engines and Engineering Terms	1.0	1.0		
5.0 - Towing Operations - Commercial Assistance Towing	4.0	4.0		
<b>4.0, 5.0 Totals</b>	<b>56.0</b>	<b>46.5</b>	<b>9.5</b>	<b>56.0</b>
<b>Total: All Modules (min)</b>				<b>129</b>