



CAPCA

Chesapeake Area Professional Captains Association
1009 Bay Ridge Avenue PMB 156
Annapolis, MD 21403
www.capca.net 410-267-7651

Continuing Education Course Outline

Title of Course: CAPCA Practical Marine Radar
Date of Course: Saturday, April 26, 2014 - 9:00am to 4:00pm
Course Location: Annapolis Elks Lodge #622, Edgewater, MD 21037

Capt. Rick Perri - National Seafarers Academy

0900 – 0920: Welcome: Opening Statements & Introductions

0920 – 0930: Radar Principals and Display Lesson/Movie

0930 – 0945: Radar Tuning & Controls Lesson/Movie
(Rain and Sea Clutter, SHL, EBL, VRM, etc.)

0945 – 1000: Radar Display Modes (North-up & Head-up) Lesson/Demo

1000 – 1015: Break - Networking

1015 – 1045: Relative Motion of Targets Lesson/Demo
(Trail/Echo/Wake Feature, Plotting techniques)

1045 – 1100: Modern Radar Features Lesson
(Radar overlay, Pulse vs. Broadband Radar)

1100 – 1115: Break – Networking

1115 – 1200: Radar Navigation & Piloting Lesson/Demo/
Simulator
(Radar Fix, Avoid Hazards, Channels, Coast Line,
Buoy Line, Harbor Entrance, Anchorage)

1200 – 1300: Lunch – Networking

1300 – 1315: Radar Collision Avoidance and Initial Actions Lesson/Movie
(Long Range Scanning, EBL & VRM techniques)

1315 – 1345: Closest Point of Approach (CPA) – Distance and Time Lesson

1345 – 1400: Direction and Speed of Relative Motion (DRM, SRM) Lesson

| | |
|--|---------------------------|
| 1400 – 1415: Change of Course or Speed – New DRM & SRM | Lesson |
| 1415 – 1430: Break - Networking | |
| 1430 – 1445: Radar Collision Avoidance (Head-up & Course-up) (Determine Risk of collision, Distance at CPA, DIW & Parallel & Crossing Contacts) | Lesson/Demo/ Simulator |
| 1445 – 1500: Radar Tracking of Weather | Lesson |
| 1500 – 1530: Mini Automatic Radar Plotting Aid | Lesson/Movie |
| 1530 – 1600: Review, Group Discussion & Networking | |

Instructor Bio:

Captain Rick Perri: Earned his first USCG license as a Third Mate Unlimited Tonnage (Oceans) upon graduating from SUNY Maritime College and then immediately joined the US Navy. During his twenty-year Naval career he served as the ships Navigator and was able to upgrade his USCG license to a 1,600 ton Master, Chief Mate Any Gross Tonnage, 100 ton Master Sail upon any ocean. As the Senior Watch Officer he over saw the training and qualifications of the Bridge watch and Radar teams. Since 2004 he has been working in the commercial Small Passenger Vessel industry in the DC/VA/MD area operating the Odyssey III (240ft and ~700 person K-boat), Patriot II (84ft Catamaran K-boat), Harbor Belle (65ft T-boat), and a partial season with former Presidential Yacht Sequoia. His teaching mantra is, that if a procedure or topic is used in the maritime field then it is worth presenting in class, abstract and unused procedures are not worth teaching. His company, National Seafarers Academy (www.natsea.com) and CAPCA have helped many of the members renew their Coast Guard license, as well as receive specialized classes in Marine Communications, Practical Marine Radar, and Electronic Charting. He is also a member of the Maritime Educations Standard Council (MESCC) whose primary purpose is to provide a single unified voice of the Marine Education Industry to the U. S. Coast Guard National Maritime Center (NMC).