

Changes to Coastal Navigation

Navigation Standards Split and added additional content

- Basic Coastal Navigation
 - New exams, open book
 - Prerequisite for Intermediate Cruise/Powerboat
- Intermediate Coastal Navigation
 - New exams, closed book
 - Prerequisite for Advanced Cruise
 - Common Plotting Standard
- Transition Period – 2017

No Coastal Navigation (old standard) Certifications after 2017-12-31

Basic Coastal Navigation

Removed

- In local area (and familiar waters references)
- Check compass deviation using a transit bearing
- Plot an EP allowing for current and leeway
- Plot a running fix
- Plot a position using a distance (sounding or dipping a light) and a bearing
- Determine a heading to counteract current or leeway
- Determine a current
- Passage Plan
- Transfer positions between charts

Added

- Navigators Role (Appraisal, Planning, Execution, and Monitoring)
- Current Atlas
- List factors affecting depth above and below chart datum
- Determine rate and direction using Tidal Diamonds or Current Atlas
- Pilotage Plan (Line of Sight)
- Recognize Day and Night appearance of Aids
- Describe Information to be included in a vessels log
- Use Sail Canada Uniform Navigation Symbols and Terms for plotting and labeling

Intermediate Coastal Navigation

Added

- Navigators role (ColRegs related)
- Intermediate tidal heights using Tide Tables (Rule of 12ths is examined), and Current Atlas or Tidal Diamonds
- Process to build a deviation card
- Means to calibrate a depth sounder, and a knotmeter or knot log
- Explain causes of leeway and how to estimate underway
- Plot/determine EP given a DR and current/leeway

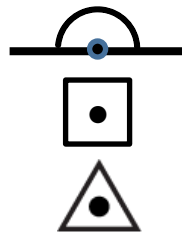
Added

- Departure or Arrival Plan to include night departure/arrival considerations
- Describe the difference between IALA Region A and B systems and where each applies
- Explain GPS XTE, methods to evaluate GPS position accuracy, and differences in vessel course between steering compass and GPS
- Use Sail Canada Uniform Navigation Symbols and Terms for plotting and labeling

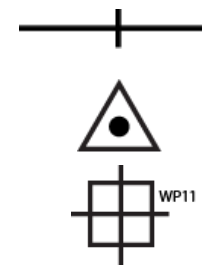
Uniform Navigation Symbols & Terms (Common for all Navigation Standards)

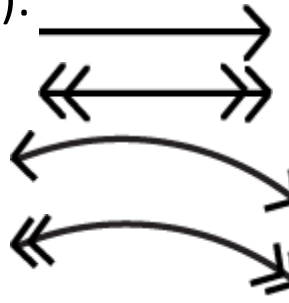
Old Standard

- DR
- EP
- Waypoint



Uniform Navigation Symbols



- LOPs (Lines of Position):
 - Visual,
 - Transferred,
 - Circle of Position,
 - and Transferred Circle of Position

standardized between Coastal Navigation and Celestial Navigation
- Alternative terms TR (Track (COG)) and SOA (Speed of Advance (SMG)) introduced

Evaluation

Basic Coastal Navigation

Ashore exam: Open book

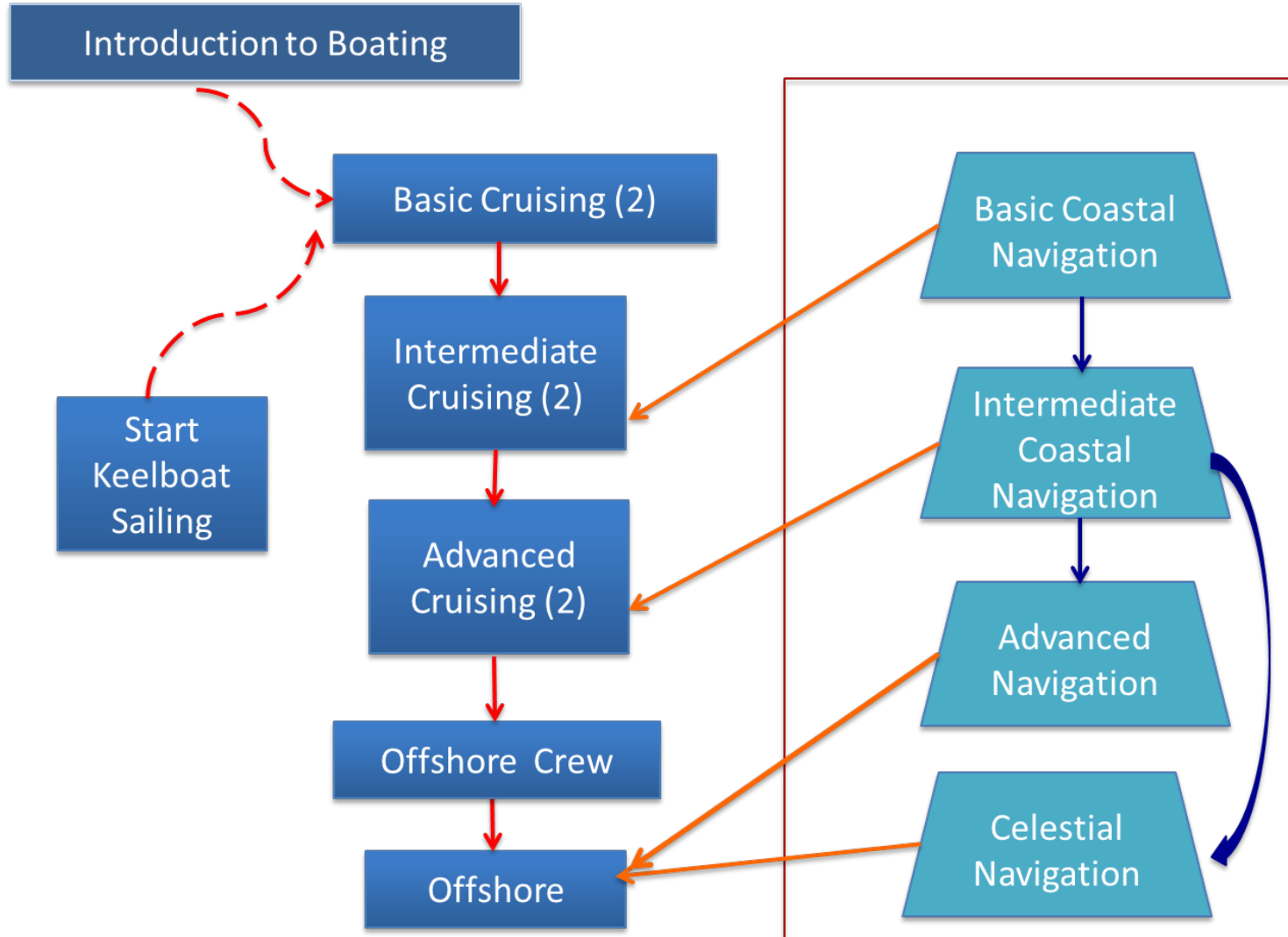
- 2 ½ hours – need 70% overall
- 2 sections (A : theory & B : plotting)
 - Need 60% on each
 - Theory section 5/8 weighted, 65% of exam
 - Plotting section is unweighted, 35% of exam
- Afloat – In Intermediate Cruising
- Course Length: Recommended ~17 hours (including exam)

Intermediate Coastal Navigation

Ashore exam: Closed book

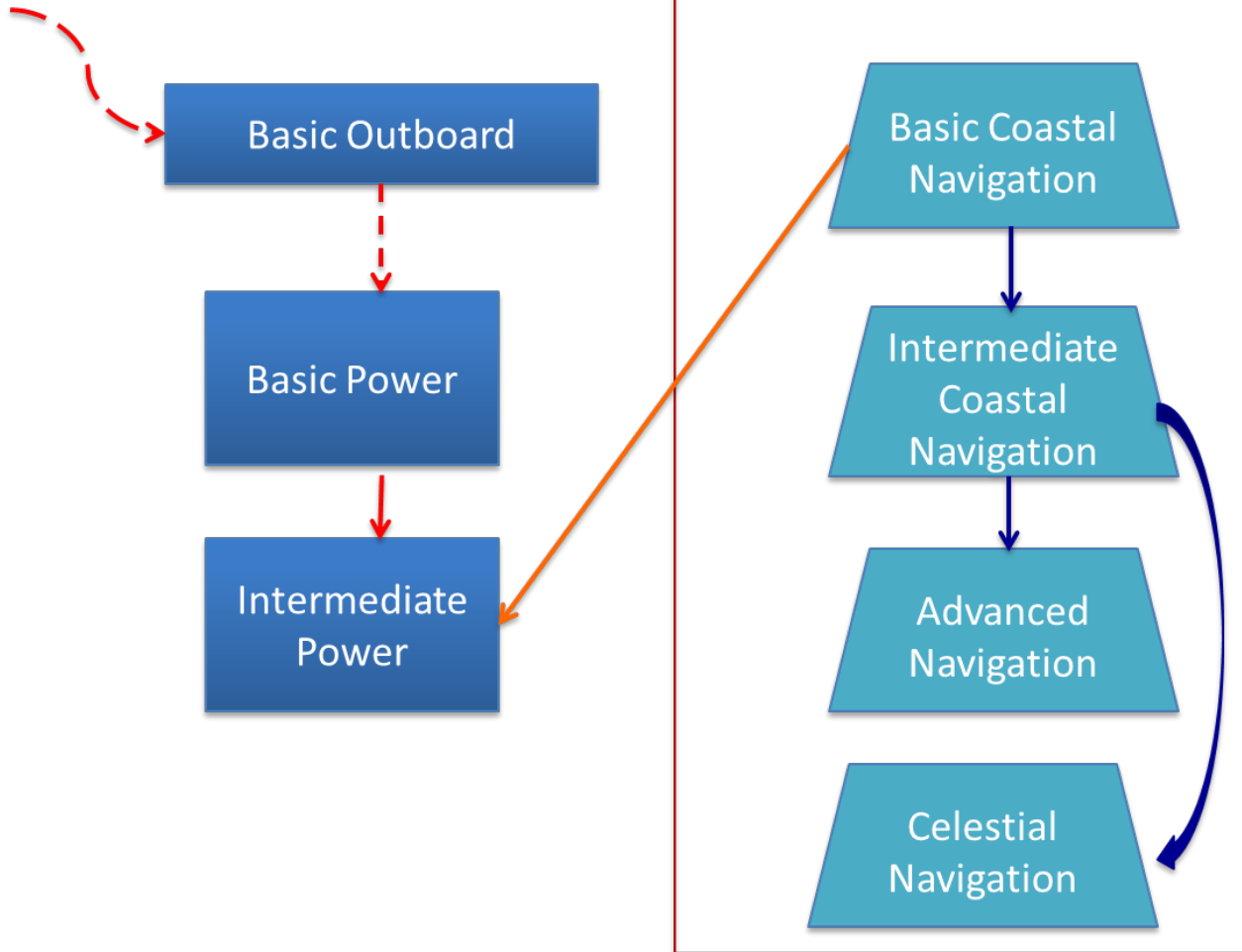
- 3 hours – need 70% overall
- 2 sections (A = theory & B = plotting)
 - Need 60% on each
 - Theory section 1/2 weighted, 55% of exam
 - Plotting section is unweighted, 45% of exam
 - Exam includes requirement to complete log pages
- Afloat – In Advanced Cruising
- Course Length: Recommended minimum 15 hours (including exam)

Cruising Pathway



Powerboat Pathway

Introduction to Boating



Instructor Pathway

