

One-Day Navigation Course

Seamanship Knowledge

1) Charts and Publications

Coast Pilot

Notice to Mariners

Light List

Chart One

Checklist

2) Tides and Currents

Canadian Current Atlas

Annual Current Tables

Tide tables

3) Aids to navigation

Buoys

Daymarks

Ranges

Information and Regulatory Markers

Lighthouses

4) Cruising Guides

Gunkholing in the San Juans/ Gulf Islands

Dreamspeaker Series

5) Weather

NOAA & Canadian weather radio (WX channels)

NOAA weather faxes on internet

6) Marlinspike

Common knots used on a boat

Navigation

1) TVMDC (True Virgins Make Dull Company)

True North

Variation

Magnetic

Deviation

Compass

2) Charting Tools

Parallel Rule

Dividers

Pencil

3) Dead Reckoning

Latitude & Longitude

Compass Rose

Variation

Laying a course using Magnetic Rose

Distance using Latitude (one nautical mile = one minute of latitude)

Running fix

Address of 60D ST $60 \times \text{Distance} = \text{Speed} \times \text{Time}$

Chart Datum

Chart One (Abbreviations and Symbols)

Chart Plotter/ Radar

1) Chart Plotter

Find breaker to activate unit.

Insure a “Fix” is acquired.

Find function to “Find Ship”

Range in and Range out

Move Cursor around the screen

Use “Go To” function for single waypoint.

Set up “Data” boxes

COG (Course Over Ground)

SOG (Speed Over Ground)

Vessel Position Latitude and Longitude

Split Screen (Radar, Sonar, Chart Plotter)

Page button for split screen options

Brightness control by pushing red button

Sea Talk capability with Speed/Depth/Auto Pilot

2) Radar

Turn on Scanner

Warm up time needed

Standby to Transmit (TX)

Range in and Range out

Adjust Gain manually

Adjust Rain Mode manually

Adjust Tuning manually

Harbor/Offshore mode

EBL (Electronic Bearing Line)

VRM (Variable Range Marker)

Target tracking

Piloting Rules

1) Navigation Rules

Rule #5 Look out Rule

Rule #9 Narrow channels

Rule #13 Overtaking

Rule #14 Head on Situation

Rule #15 Crossing Situations

Rule #16 Give Way Vessels

Rule #17 Stand-on Vessels

Rule #18 Pecking Order

New Reels Catch Fish So Purchase Some

Not under Command

Restricted by Ability to Maneuver

Constrained by Draft

Fishing Vessels

Sailboats

Powerboats

Seaplanes

Rule # 27 Diver's Flags

Alpha flag

Diver Down flag

Rule #34 Sound signals

One short blast -altering course to starboard

Two short blasts -altering course to port

Three blasts -operating astern propulsion (In reverse)

Rule #35 Fog signal

One prolonged (4-6 seconds) blast every two minutes

In fog.

Rule #37 Distress signals

Safety and Emergency Procedures

1) Eight items the Coast Guard requires

- 1) Type 1,2,3 or 5 **P**ersonal **F**lotation **D**evice*
- 2) Type 4 Throw able device*
- 3) Fire extinguishers (Usually 3 type BC)*
- 4) Daytime distress signals (smoke)*
- 5) Nighttime distress signals (aerial or red roman candle type)*
- 6) Navigation lights*
- 7) Registration or Documentation*
- 8) Sound making device (Air horn)*

2) VHF procedures

Use channel 16 for hailing other stations.

Hail other station three times and give your boat name twice.

Switch to “working channel” to continue conversation.

*Weather channels 2 &3 Canada, 4 is NOAA
(WX function)*

- 1) “May Day” Life threatening emergency*
- 2) “Pan Pan” Non-life threatening emergency*
- 3) “Securite” Informational call (eg. deadhead, navigation hazard)*

3) Float Plan

Don't file with Coast Guard

File with friends, family or charter company