

APRIL 2017

REVISION

TOPICS FOR CARGO HANDLING STOWAGE AND SECURING

- LIQUID CARGO LOADING AND DISCHARGING VALVES AND GEARS
- CLASSES OF CARGO PUMPS THEIR ADVANTAGES / DISADVANTAGES AND SIMPLE CALCULATIONS
- DERRICKS AND UNION PURCHASES ARRANGEMENT USES
- SECURING OF CONTAINERS ON DECK AND IN HOLDS
- CONTAINER STOWING GUIDELINE AND LASHING PATTERNS
- HOW CONTAINERS SHOULD BE POSITIONED AND SECURED
- COOLING OF COMPARTMENT FOR CARRYING REEFER CARGO
- REEFER COMMODITY GROUPS
- EFFECT OF DRAFT AND FREEBOARD ON THE LOADING OF SHIP AND ON THE SAFETY OF LIFE
- DANGEROUS GOODS AND THEIR HAZARDS
- HANDLING PRECAUTIONS
- MULTIPLE CHOICE QUESTIONS ACROSS THE TOPICS.
- INFORMATION CONTAIN IN A CARGO PLAN

ELECTRONIC NAVIGATIONAL SYSTEMS REVIEW

- GPS SEGMENTS EXPLAINED
- THE PREMISE OF THE GPS
- LIMITATIONS
- USES OF THE AIS AND ITS USES IN WATCHKEEPING
- PROPAGATION OF RADIO WAVES
- UNDERSTANDING SURFACE WAVES USING DIAGRAMS TO CLARIFY KNOWLEDGE
- PHENOMENON THAT AFFECT SURFACE WAVES
- ELECTRO-STATIC TRANSDUCER
- ECHO-SOUNDER PRINCIPLE

STABILITY AND CONSTRUCTION REVIEW

1. DENSITY, TPC , DISPLACEMENT, CARGO AVAILABLE
 2. CONDITION OF EQUILIBRIUM, AND CORRECTING THE UNSTABLE EQUILIBRIUM
 3. STIFF AND TENDER SHIP CONDITIONS
 4. KM, KG, GM AND METACENTRE
 5. FINDING FLUID GM AND OR FINAL LIST
- (i) ANGLE OF HEEL AND THE APPLICATION OF THE KN CURVE TO DETERMINE THE RANGE OF STABILITY, THE ANGLE OF VANISHING STABILITY, THE MOMENT OF STATICAL STABILITY, THE MAXIMUM GZ AND THE ANGLE AT WHICH IT OCCURS

CONSTRUCTION

- PROPELLORS
- A FIXED PITCH PROPELLER:
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- CONTROLLABLE PITCH PROPELLER:
 - THE ADVANTAGES OF A CONTROLLABLE PITCH PROPELLER:
 - THE ROLE OF CLASSIFICATION SOCIETIES IN THE DESIGN AND CONSTRUCTION OF SHIPS.
- PANTING AND POUNDING
- DIFFERENTIATE BETWEEN 'PANTING' AND 'POUNDING' AND SAY HOW A SHIP MAY BE AFFECTED BY THESE STRESSES.
- TYPES OF WELDING JOINTS
- BULKHEADS

- LABELING OF DIAGRAMS

TERRESTRIAL AND COASTAL NAVIGATION REVIEW

- RUNNING FIX WITH CURRENT
- POSITION FIXES USING MULTIPLE METHODS
- COUNTERACTING AND ALLOWING FOR CURRENT
- TIME TO BEAM AND ETA ON ARRIVAL
- DISTANCE TO SEA HORIZON
- USE OF THE GEOGRAPHICAL RANGE AND NOMINAL RANGE TABLE
- TIDAL CALCULATION AND FINDING EARLIEST TIME TO CROSS A BAR
- PUBLICATIONS USE IN NAVIGATION AND THEIR SPECIFIC FUNCTION
- PROPERTIES OF A GOOD NAVIGATION CHART;
- SYSTEM OF UPDATING A CHART OR PUBLICATION
- EXPLAIN THE CHART CATALOGUE

CELESTIAL AND OFFSHORE NAVIGATION REVIEW

- LATITUDE BY OBSERVER AND COMPASS ERROR
- ZONE TIME AT LAN
- GNOMONIC AND GREAT CIRCLE
- GREAT CIRCLE SAILING FINDING INITIAL COURSE AND DISTANCE ETC;
- DIAGRAM AT THE DIFFERENT PLANE TO DETERMINE LATITUDE ETC
(plane of the observer's meridian)
- LONGITUDE BY CHRONOMETER (itp)
- TRUE AMPLITUDE AND FIGURE DRAWING TO SHOW : HOUR ANGLE,
DECLINATION, AMPLITUDE , AZIMUTH ETC
- MULTIPLE CHOICE ACROSS THE TOPICS

MARITIME LEGISLATION REVIEW

- EXPLAIN WHAT A CONVENTION IS AND OUTLINE ITS MAIN PURPOSE.
- PUBLIC LAW" AND "PRIVATE LAW"
- VARIOUS LAWS THAT WILL GOVERN YOUR SHIP DURING THE PORT CALL.

- SAFETY OFFICER CONTENT OF THE MUSTER AND FIRE DRILL
- STCW REQUIREMENTS
 1. DOCUMENT/REQUIREMENTS FOR A FIRST TIME LICENSE HOLDER
 2. *DISPENSATION AND AN ENDORSEMENT*
OBLIGATION TO GRANT “RECIPROCAL RECOGNITION”
 3. STCW-95 AND PORT STATE CONTROL
- INTERNATIONAL TONNAGE CERTIFICATE
 5. THE GROSS TONNAGE
 6. CATEGORY OF SHIPS WHICH APPLY
 7. EXPLAIN THE PURPOSE OF THE INSPECTION AND WHAT THE INSPECTOR WILL BE LOOKING FOR ABOARD THE SHIP.
- LOAD LINE CERTIFICATE
 - CANCELLATION
 - APPLICATION
- ISM CODE AND THE ROLE OF THE DP
 8. DOCUMENT OF COMPLIANCE (DOC), SAFETY MANAGEMENT CERTIFICATE (SMC) AND INTERNAL AUDIT
 9. *ADVANTAGES OF A SMS*
- IMDG CODE
 11. REQUIREMENT OF CARRYING DANGEROUS GOODS
 12. DISCUSS THE CARRYING OF EXPLOSIVE ON PASSENGER VESSELS
- UNCLOS
 13. VESSEL USINGG PASSAGE AND THEIR OBLIGATIONS
 14. CLAUSE “NO MORE FAVORABLE TREATMENT”
 15. OBLIGATIONS OF A FOREIGN FLAG SHIP DURING TRANSIT PASSAGE.
 16. DRAW AND DEFINE THE DIFFERENT LAYERS:
 - (i) BASELINE

- (ii) TERRITORIAL SEA
- (iii) CONTIGUOUS ZONE
- (iv) EXCLUSIVE ECONOMIC ZONE
- (v) INTERNAL WATERS
- (vi) ARCHIPELAGO
- (vii) BAY

- ISPS

METEOROLOGY REVIEW

- SYMBOLIC CODE GROUPS
- USING SHIP CODE FORMAT TO DECODE AND ENCODE WEATHER
- TROPICAL REVOLVING STORM
- BUYS BALLOTS LAW USE TO LOCATE STORM CENTRE
- THE WARNING SIGN OF A TROPICAL STORM AND BAROMETRIC TRACES
- WHAT IS MEANT BY AN ABSOLUTELY UNSTABLE ATMOSPHERE.
- LAYERS OF THE ATMOSPHERE
- LAND AND SEA BREEZES EXPLAINED
- TYPES OF WIND AND HOW WIND IS INFLUENCED BY FRICTION
- THE FACSIMILE RECORDER

- DRY BULB AND WET BULB THERMOMETERS

- COLD AND WARM TYPE OCCLUSIONS

- THE LOW OR CYCLONIC ISOBARIC PATTERN

- PRECIPITATION FORMATION IN TEMPERATE REGIONS

WATCHKEEPING REVIEW

- CONDITION FOR SOLE LOOK-OUT DUTY
- FAMILIARIZATION ISSUES FOR OOW WORKING ON BRIDGE
- EXPLAINING THE RULES WITHOUT QUOTING THEM
- TSS EXPLAINED
- LIGHTS AND SHAPES DAY OR NIGHT SIGNAL
- FULL KNOWLEDGE OF RULES