	<p align="center"><i>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</i></p> <p align="center">21.0 BRIDGE RESOURCE MANAGEMENT</p> <p align="center"><i>ON THE JOB TRAINING</i></p>	OJT : 021 Page 1 of 3 Date : 07-Nov-25 Rev : 10.1 Appr : DPA
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VESSEL : _____

DATE : _____

Details of Training: Bridge Resource Management

What is Bridge Resource Management?

- Bridge Resource Management (BRM) is the effective management and utilization of all resources, human and technical, available to the Bridge team to ensure the safe completion of the vessel's voyage.
- BRM focuses on bridge officers' skills such as teamwork, teambuilding, communication, leadership, decision-making and resource management and incorporates this into the larger picture of organizational and regulatory management.
- BRM addresses the management of operational tasks, as well as stress, attitudes and risk. BRM recognizes there are many elements of job effectiveness and safety, such as individual, organizational, and regulatory factors, and they must be anticipated and planned for. BRM begins before the voyage with the passage plan and continues through the end of the voyage with the passage debrief.


Available resources to manage:

A mariner has many resources available to him/her for safe passage planning and execution. Some examples include:

- Electronic equipment (radar, echo sounder, GPS/DGPS, ARPA, gyro compass etc)
- Charts and publications
- Environmental factors (i.e. tide, wind, currents)
- Electronic Charting and Display Information Systems (ECDIS)
- Vessel Traffic Services (VTS)
- Passage plan
- Internal and external communication equipment
- GNDSS equipment - NAVTEX
- Automatic Identification System (AIS)
- Persons with local knowledge (i.e. Pilot)
- Bridge Personnel (i.e. Master, Officer On Watch (OOW), helmsman, lookout)

Objectives of Bridge Resource Management:

- Share a common view of the intended passage and the agreed procedures to transit the passage with all members of the Bridge Team.
- Develop and use a detailed passage plan to anticipate and manage workload demands and risks.
- Set appropriate manning levels and make contingency plans based on anticipated workload and risks.

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- Make roles and responsibilities clear to Bridge Team members.
- Involve all team members in problem solving.
- Acquire all relevant information early and anticipate dangerous situations.
- Team members clearly understand the chain of command including the way decisions and instructions are made, responded to, and challenged.
- Function cohesively and support each other so that errors of any one person do not create a hazardous situation and the same are brought to notice and rectified well in time.

How to implement Bridge Resource Management:

BRM can be implemented by considering and addressing the following:


- Bridge organization
- Creation of a Team environment
- Watch arrangements / Fitness for duty
- Bridge watch conditions
- Bridge team duties
- Situational awareness and error management
- Passage planning and debriefing
- Understanding the manoeuvring characteristics of vessel
- Recognition and handling of stress or distractions
- Effective utilization of all Bridge equipment
- Communications
- Bridge team training
- Masters standing orders
- Operational and emergency checklists
- Master/Pilot information Exchange

Benefits of BRM when correctly practiced:

Bridge Resource Management reduces the risk of marine casualties by helping a ship's bridge crew anticipate and correctly respond to their ship's changing situation.

When BRM is practiced correctly on board the result should be a Bridge Team that:

- Maintains its situational awareness;
- Continually monitors the progress of the vessel making appropriate adjustments and corrections as necessary to maintain a safe passage;
- Acquires relevant information early;

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- Appropriately delegates workload and authority;
- Anticipates dangerous situations;
- Avoids becoming pre-occupied with minor technical problems and losing sight of the big picture;
- Undertakes appropriate contingency plans when called for;
- Recognizes the development of an error chain; and
- Takes appropriate action to break the error-chain sequence.

Above has been read and understood.

Master: _____

CO: _____

2O: _____

3O: _____