

**College of Micronesia – FSM  
P.O. Box 159  
Kolonia, Pohnpei**

**Course Outline Cover Page**

**Basic Bridge Procedures**

Course Title

**MWD 101**

Department and Number

**Course Description:** This course provides the student with the knowledge of basic bridge procedures and skills required to perform the duties of a deck rating forming part of a navigational watch.

**Prepared by:** Brent Villiers

**State:** FSM-FMI

	Hours per Week	No. Of Weeks	Total Hours	Semester Credits
Lecture	2/4/8/16	8/4/2/1	16	1
Laboratory	12/24	12/6	144	3

Total Semester Credits: 4

**Purpose of Course**

Degree Requirement	_____
Degree Elective	_____
Advanced Certificate	_____
Certificate	_____XX_____
Remedial	_____
Other (Workshop)	_____

**Prerequisite Course(s):** MWD 014 Enabling English

\_\_\_\_\_  
**Signature, Chairman, Curriculum Committee**

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**Date Approved by Committee**

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**Signature, President, COM-FSM**

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**Date Approved by the President**

**General Objective:**

This course is targeted at mariners who wish to obtain a Certificate of Competency as Watch-keeper Rating Class 1 in accordance with the South Pacific Maritime Code. The information covered in this course will provide you with the knowledge and skills required to perform duties as a deck rating who is required to form part of a navigational watch. When considering the safety of a vessel, you should always relate your role as a lookout or helmsman to that of the watch-keeper and other members of a bridge team. Your duties are directly related to theirs, and carried out for exactly the same reasons. This course contains information that will help you understand the role of all members of that bridge team. You should use the information contained in this module in conjunction with your learning of other courses dealing with ship operations to ensure that your vessel is always operated in a safe manner.

**Learning Outcomes:** Upon successful completion of this course the student will be able to:

1. Participate in the bridge organization of a typical seagoing vessel.
2. Keep a proper lookout by sight and hearing.
3. Perform the duties of a helmsperson.
4. Contribute to monitoring and controlling a safe watch.

***STUDENTS SHOULD BE MADE AWARE OF OCCUPATIONAL HEALTH AND SAFETY ISSUES IN ALL SITUATIONS AND BE EXPECTED TO DEMONSTRATE SAFE WORKING PRACTICES AT ALL TIMES.***

**Outline of Content:** This course contains:

1. Bridge Organization.
  - Bridge Layout
  - Duties & Responsibilities of the Bridge Team
  - Information Flow
2. Duties of a Lookout.
  - Requirements for keeping a lookout
  - Reporting Procedure
  - Distress Signals
  - Flags and Signaling

- Buoyage
3. Duties of a Helmsperson.
    - Alarms and Indicators
    - Compasses
    - Hand Over Procedures
    - Helm Orders
    - System Checks
    - Automatic & Manual Steering
    - Helm Control
  4. Watch keeping.
    - Pollution
    - Duties & Responsibilities
    - Maintenance, relief and handover of watch
    - Internal Communications
    - Environmental protection procedures
    - International regulations for prevention collisions at sea

<b>Learning Outcomes:</b>	On completion of this course the student will be able to:
<b>Learning Outcome 1</b>	<b>Participate in the bridge organization of a typical seagoing vessel.</b>
Assessment Criteria	<ol style="list-style-type: none"> <li>1.1 Describe the layout of a typical navigation bridge.</li> <li>1.2 Describe the duties and responsibilities of each member of the bridge team.</li> <li>1.3 Explain the information flow between members of the bridge team.</li> <li>1.4 Describe the bridge organization and information flow with a pilot on board.</li> </ol>
Conditions	This outcome may be assessed on-the-job and off-the-job. Learning and assessments will take place in a combination of classroom; laboratories; appropriate vessels, ship simulator; and other suitable study environments.
Assessment Method	<ul style="list-style-type: none"> <li>• written test involving the use of sketching, diagram interpretation, short answer questions, multiple choice questions;</li> </ul>

- oral questioning;
- observation during practical exercises on a vessel underway.

**Learning Outcome 2****Keep a proper lookout by sight and hearing.**

## Assessment Criteria

- 2.1 Describe the requirements for keeping a lookout in accordance with the International Regulations for the Preventing Collisions at Sea 1972 and STCW 95.
- 2.2 Report by approximate bearing in degrees or points sound signals, lights, and other objects.
- 2.3 Recognize International Distress signals.
- 2.4 Recognize commonly used International Code of Signals Flags.
- 2.5 Describe the IALA buoyage system 'A'.

## Conditions

Learning and assessments will take place in a combination of classroom; laboratories; appropriate vessels; and other suitable study environments.

## Assessment Method

- written test involving the use of sketching, diagram interpretation, short answer questions, multiple choice questions;
- oral questioning;
- observation during practical exercises.

**Learning Outcome 3****Perform the duties of a helmsperson.**

## Assessment Criteria

- 3.1 Identify the controls; alarms and indicators used in conjunction with steering a vessel and describe their function.
- 3.2 Describe the use of Magnetic and Gyrocompasses for steering purposes.
- 3.3 Alter a vessel's course smoothly and under control.
- 3.4 Steer a steady course for an extended period
- 3.5 Correctly interpret helm orders given in English.
- 3.6 Correctly acknowledge and respond to helm orders.
- 3.7 Describe helm hand over procedures.
- 3.8 Describe change over procedures from automatic pilot to hand steering and vice versa.

- 3.9 Describe steering system tests and drills in accordance with SOLAS '74'.

Conditions

Learning and assessments will take place in a combination of classroom; laboratories; appropriate vessels; and other suitable study environments.

Assessment Method

- written test involving the use of sketching, diagram interpretation, short answer questions, multiple choice questions;
- oral questioning;
- observation during practical exercises on a vessel underway.

**Learning Outcome 4**

**Contribute to monitoring and controlling a safe watch.**

Assessment Criteria

- 4.1 Describe the duties of a watch-keeper at sea, in port and at anchor.
- 4.2 Describe the information required to maintain a safe watch.
- 4.3 Understand orders and demonstrate effective communication with officers of the watch in matters relevant to watch keeping duties.
- 4.4 Conform to accepted practices and procedures for the maintenance, hand over and relief of the watch.
- 4.5 Demonstrate the use of internal communication and alarm systems.
- 4.6 Describe basic environmental protection procedures.
- 4.7 Outline the purpose and content of the International Regulations for Preventing Collision at Sea 1972.

Conditions

Learning and assessments will take place in a combination of classroom; laboratories; appropriate vessels; and other suitable study environments.

Assessment Method

- written test involving the use of sketching, diagram interpretation, short answer questions, multiple choice questions;
- oral questioning;

- observation during practical exercises on a vessel underway.

**Resource Requirements:**

- a suitable theory teaching space
- simulation and/or laboratory equipment
- vessel under survey
- Collision Regulations

**Method of Instruction:**

This course provides for off-the-job delivery in a classroom, supported by simulation and/or laboratory equipment and access to a vessel in survey. In the absence of an appropriate simulator or training vessel, the learning outcome dealing with helm duties may be effectively delivered on-the-job on a suitable vessel.

**Reference Materials:**

SPC 011 Basic Bridge Procedures Learners Guide

**Evaluation:**

Final Grade for this course will be based on meeting the course requirements at the following percentage rates:

96% - 100%	A – Superior
90% - 95%	B – Above Average
80% - 89%	C – Average
69% - 79%	D – Below Average
0 % - 69%	F – Failure

**Attendance:**

The COM-FSM attendance policy will apply.