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| --- | --- | --- |
| Departemen_Perhubungan.wmf | FORM SKENARIO LABORATORIUM/SIMULATOR/ WORKSHOP | Nomor Dokumen : FM.USW.01.02a |
| Tgl. Ditetapkan :  |
| Revisi No :  |
| Tgl. Diberlakukan :  |
| Made By : | Reviewer : |
| PIP SEMARANG | **Capt. Agus Subardi, SP1. M Mar** |  | **Dr. Capt. H. Sahabuddin Sunusi, M.T., M.Mar** |

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| --- | --- |
| Type Facilities :* Laboratorium
* Simulator
* Other
 | Name Laboratorium / Simulator/ Other :SMS / Part Task Ship Handling Simulator / F.M Ship Handling Simulator (Bridge) |

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| **STCW Convention** | **Certificat Of Competency** |
| **Program** | Rancangan Pelayaran / Passage Planning, **Scenario 02** |
| **REFERENSI STCW** | ***Reg. II/1-2 and STCW Code Section A-II/1.2******IMO Reference and STCW Code table A-II/2*** |
| **Aim of Exercise** | Penilaian semua informasi yang berhubungan dengan Passage Planning*Assessment of all information related to Passage Planning* |
| **Objective** | 1. Membuat Rancangan Route Pelayaran

*Draw up a Cruise Route*1. Komunikasi dan familiar dengan passage planning

*Communication and familiar with passage planning*1. Dalam Situasi normal

*Normal Situation*1. Kerja peta

Chart *work*1. Mengerti menggunakan buku buku navigasi

*Understand using the navigation book*1. Pengambilan Keputusan / memilih buku buku navigasi

 *Choose a book of navigation books* |
| **Own Ship Data** | Ship NameCall SignType Of ShipDisplacementLOADraftMax SpeedType Of PropellerBow ThrusterCondition Anchor | MV. POLAR BEARPKLHLPG SHIP33089.0 Ton182,9 meter 10,7 meter14 KnotsFPP SingleYesFull LoadedPort / Starboard 11 shackle  |
| **Exercise condition** | **Buku buku Navigasi :**Ocean Passage For The World, Admiralty Sailing Direction, Guide to Port EntryAdmiralty List of Light, The Pilot Book, Mariner Hand Book, Admiralty Tide TablesThe Almanac Nautika, Norris Tables, HO Observation 249 & 312.The Pilot Charts, IMO Ship Routing, The Weather Charts.***The Navigation / Publication Books*** *:**Ocean Passage For The World, Admiralty Sailing Direction, Guide to Port Entry**Admiralty List of Light, The Pilot Book, Mariner Hand Book, Admiralty Tide Tables**The Almanac Nautica, Norris Tables, HO Observation 249 & 312.**The Pilot Charts, IMO Ship Routing, The Weather Charts, Notice to Mariners,* *Navigation Warning, Meteorological Information**Vessel condition and handling characteristics* |

**INITIAL INFORMATION**

|  |  |  |
| --- | --- | --- |
| **WIND** | **CURRENT** | **SEA STATE** |
| Direction | 270⁰ | Direction | North | Direction | North East |
| Speed | 2 knots | Speed | 0.5 knots | Speed | 00 knots |

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| --- | --- |
| **Briefing** | 15 minutes |
| **Exercise Duration** | 60 minutes |
| **Debriefing** | 15 minutes |

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| **Performance Criteria** |
|  |
| **NO** | **TIME** | **ACTIVITY** |
| 1 | 10 | **Voyage Planning / Navigation books**1. Membuat data / mempelajari buku buku Navigasi

*Create data / learn Navigation book books*1. Memasukkan keterangan keterangan kedalam peta laut

*Enter annotations into the sea map*1. Menentukan / membuat catatan penting di buku Bridge Note Book

*Determine / create important notes in the Bridge Note Book*  |
| 2 | 10 | **Navigasi dalam semua kondisi** *Navigation for all conditions*1. Melakukan Komunikasi dengan Nakhoda, sehubungan dengan navigasi

*Communicate with the Master, in connection with navigation*1. Melakukan Komunikasi Dengan Mualim mualim yang lain

*Communication with another ship officers* |
| 3 | 10 | **Rencana pelayaran dan pelaksanaan navigasi***Plan a voyage and conduct navigation*1. Routing sesuai dengan ketentuan umum pada route kapal

*Routing in accordance with the general provision on ships Routing.*1. Pelaporan sesuai dengan Prinsip Umum untuk Kapal Pelaporan Sistem dan prosedur VTS

*Reporting in accordance with the General Principles for Ship Reporting Systems and with VTS procedures.* |
| 4 | 10 | **Menentukan posisi dan keakuratan posisi resultan fix dengan cara apapunPenentuan posisi dalam segala kondisi***Determine position and the accuracy of resultant position fix by any means**Position determination in all conditions*1. Celestial navigation and Terrestrial observation, including the ability to use appropriate charts, notice to mariners and other publications
2. Modern electronic navigational aids with specific knowledge of their operating principles
 |
| 5 | 10 | **Tentukan dan hitung nilai untuk kesalahan kompas***Determine and Allow for compass errors*Principle of the magnetic compasses1. Parts of the magnetic compass and their function
2. Error of the magnetic compass and their correction
 |
| 6 | 10 | **Prinsip dan kesalahan kompas Gyro***Principles and errors of the Gyro compasses*1. Principles of gyro compasses
2. Gyro compass errors and corrections
 |

\*Critical performance below must get record **“Yes”** mark will lead the final result to mark **“FAIL”**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Critical Performance** | **Y** | **N** |
| 1 | **Persiapkan Route Pelayaran dengan aman***Prepare the Cruise Route safely* |  |  |
| 2 | **Navigasi untuk segala kondisi** :Laporkan kepada Kapten jika kapal siap untuk berlayar*Navigation for all conditions**Report to the Captain if ship’s ready for sailing* |  |  |
| 3 | **Rencanakan pelayaran dan lakukan navigasi***Plan a voyage and conduct navigation* |  |  |
| 4 | **Tentukan posisi dan keakuratan posisi resultan fix dengan cara apapun. Penentuan posisi dalam segala kondisi***Determine position and the accuracy of resultant position fix by any means Position determination in all conditions* |  |  |
| 5 | **Tentukan dan Allow untuk kesalahan kompas. Prinsip dan kesalahan kompas Gyro**. *Determine and Allow for compass errors. Principles and errors of the Gyro compasses* |  |  |

**The Task And Evaluation Performance Criteria**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Activity** | **Time Frame (minutes)** | **Result** | **Mark** | **Actual Time** | **Remark** |
|  | **Y** | **N** |
| **1** | **Voyage Planning and Navigation books** | **10** |  |  | **15** |  |  |
|  | Membuat data / mempelajari buku buku Navigasi*Create data / learn Navigation books* | *+2,5* |  |  | 5 |  |  |
|  | Memasukkan keterangan keterangan kedalam peta laut.*Enter annotations into the sea map.* | *+5* |  |  | 5 |  |  |
|  | Menentukan / membuat catatan penting di buku Bridge Notebook.*Determine / create important notes in the Bridge Notebook .* | *+2,5* |  |  | 5 |  |  |
| **2** |  **Navigasi untuk segala kondisi***Navigation for all conditions* | **10** |  |  | **10** |  |  |
|  | Melakukan Komunikasi dengan Nakhoda, sehubungan dengan navigasi*Communicate with the Master, in connection with navigation.* | *+5* |  |  | *5* |  |  |
|  | Melakukan Komunikasi Dengan Mualim mualim yang lain*Communication with another ship officers.* | *+5* |  |  | *5* |  |  |
| **3** | **Rencanakan pelayaran dan lakukan navigasi***Plan a voyage and conduct navigation*Routing sesuai dengan ketentuan umum pada route kapal *Routing in accordance with the general provision on ships Routing*. | **10** |  |  | **20** |  |  |
|  | Pelaporan sesuai dengan Prinsip Umum untuk Sistem Pelaporan Kapal dan dengan prosedur VTS*Reporting in accordance with the General Principles for Ship Reporting Systems and with VTS procedures* | *+10* |  |  | *20* |  |  |
| **4** | **Tentukan posisi dan keakuratan posisi resultan fix dengan cara apapun Penentuan posisi di semua** **coditions***Determine position and the accuracy of resultant position fix by any means**Position determination in all conditions* | **10** |  |  | **15** |  |  |
|  | Navigasi benda angkasa dan observasi Terestrial, termasuk kemampuan untuk menggunakan grafik yang sesuai, pemberitahuan kepada pelaut dan publikasi lainnya*Celestial navigation and Terrestrial observation, including the ability to use appropriate charts, notice to mariners and other publications* | *+5* |  |  | *5* |  |  |
|  | Alat bantu navigasi elektronik modern dengan pengetahuan spesifik tentang prinsip operasi mereka*Modern electronic navigational aids with specific knowledge of their operating principles* | *+5* |  |  | *10* |  |  |
| **5** | **Tentukan dan hitung untuk kesalahan kompasPrinsip kompas magnetik***Determine and Allow for compass errors**Principle of the magnetic compasses* | **10** |  |  | **20** |  |  |
|  | Bagian dari kompas magnetik dan fungsinyaKesalahan kompas magnetik dan koreksinya*Parts of the magnetic compass and their function**Error of the magnetic compass and their correction* | *+10* |  |  | *20* |  |  |
| **6** | **Prinsip dan kesalahan kompas Gyro***Principles and errors of the Gyro compasses* | **10** |  |  | **20** |  |  |
|  | Prinsip kompas giroKesalahan dan koreksi kompas GyroPrinciples of gyro compassesGyro compass errors and corrections | *+10* |  |  | *20* |  |  |
|  |  | **60**  | **Total** | **100** *100* |  |  |

**Time factor**

|  |  |  |  |
| --- | --- | --- | --- |
| <60 minutes = 1 | 61 – 70 minutes = 0.9 | 70 – 80 minutes = 0.8 | >80 minutes = 0.5 |

**Total Time : ………………minutes Time Factor : …………….**

**Total Score : Total Mark X Total Factor = …………… x ……………. = …………….**

**Final Result : PASS / FAIL ( Passing Grade = 70 )**