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| Departemen_Perhubungan.wmf | FORM SKENARIO  LABORATORIUM/SIMULATOR/  WORKSHOP | | NomorDokumen : FM.USW.01.02a | |
| Tgl. Ditetapkan : 02 November 2015 | |
| Revisi No : 02 | |
| Tgl. Diberlakukan : 09 Januari 2017 | |
| Made By : | | Reviewer : | |
| PIP SEMARANG | Capt. ARIKA PALAPA,M.Si, M.Mar | Capt. DWI ANTORO, MM, M.Mar | | YUSTINA SAPAN, S.ST, M.M |

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| Type Facilities :   * Laboratorium * Simulator * Other | Name Laboratorium/ Simulator/ Other :  Cargo Handling Simulator/Ship Operational Laboratory |

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| Criteria on STCW Code | *Refer to STCW 1978 Amendment 2010 Table A-II/2*  (Specification of minimum standard of competence for officers in charge of a navigational watch on ships of 500 gross tonnage or more) |
| **Program** | **Cargo handling and stowage at the management level (ANT III)** |
| **Kopetensi**  ***Competency*** | Plan and ensure safe loading, stowage, securing, care during the  voyage and unloading of cargoes |
| **AIM of Exercise** | Use of stability and trim diagrams and stress-calculating equipment,including automatic data-based (ADB) equipment, and knowledge of loading cargoes and ballasting in order to keep hull stress within acceptable limits |
| **Objective** | 1. Preparation Stowage Plan 2. Calculate Cargo Onboard 3. Input data for calculation 4. Safe condition during voyage 5. Final Result of Calculation |
| **Exercise condition** | MT. ELKEISA was at Balongan Port will sail to Balikpapan, before sailing MT. ELKEISAreceived loading order from company to load ***Crude Oil 110.000. MT***, she will prepare stowage plan for loading, please make stowage plan for that condition. |
| **Own Ship Data** | 1. Ship Name : MT. ELKEISA 2. Type of ship : Tanker 3. LOA : 150 meter 4. Draft : 8 meter 5. Condition : Full Ballast 6. Propeller : Single 7. Bow thruster : Yes 8. Ships Tank : 12 COT, 7 FO Tank, 2 DO Tank, 10 LO Tank, 4 FW   Tank, 14 SW Ballast Tank   1. Ship Condition Data 2. FO ROB Bunker    1. HFO STO P 200 MT 100 MT   1. HFO STO S 200 MT 100 MT   * 1. HFO STO P 200 MT 100 MT   2. HFO STO S 100 MT 100 MT   1. Diesel Oil    1. DO STOR S 282 MT -    2. DO SERV S 13 MT - 2. Lube Oil    1. All Tank Full 3. Fresh Water   4.1. FWT P 50 MT 50 MT  4.2. FWT P 60 MT 60 MT  4.1. DIST S 50 MT 50 MT  4.2. DIST S 50 MT 50 MT |
| **Preparation Task** | Please referring the book :   1. Manual Book 2. Ship Data 3. Stability Booklet |
| **Exercise Performance Criteria** | 1. Briefing   **Preparation**   1. Preparation Stowage Plan 2. Recognized the cargo tank 3. Recognizes ballast tank, fuel tank and ext 4. Ensure the ship condition information data   **Input Data**   1. Fill up ship condition 2. Calculate Cargo Onboard 3. Input data for calculation   **Calculation Data**   1. Check Ullage 2. Check total cargo in every tank 3. Check the result data 4. Check Trim and Stability 5. Safe condition during voyage 6. Check ships draft 7. Check ships strength 8. Check the result data as IMO Resolutions 9. Final Result of Calculation 10. Debriefing |
| **Critical Performance** | 1. Total Cargo = 110.000 MT 2. GM calculation = 2 - 5 3. Trim = 1 - 3 4. Listing = 0 |
| **Exercise Duration** | 15 minutes |

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| **Criteria** | : |  |  |  |

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| **No** | **Time Frame (mts)** | **Activity** | **Result** | | **Weight** | **Mark** | **Actual Time** | **Remark** |
| **Y** | **N** |
| **1** | 0.5 | Briefing |  |  |  |  |  |  |
|  |  | **Preparation** |  |  | **20** |  |  |  |
| **2** | 1 | Preparation Stowage Plan |  |  | 5 |  |  |  |
| **3** | 1 | Recognized the cargo tank |  |  | 5 |  |  |  |
| **4** | 1 | Recognizes ballast tank, fuel tank and ext |  |  | 5 |  |  |  |
| **5** | 1 | Ensure the ship condition information data |  |  | 5 |  |  |  |
|  |  | **Input Data** |  |  | **30** |  |  |  |
| **6** | 1 | Fill up ship condition |  |  | 10 |  |  |  |
| **7** | 1 | Calculate Cargo Onboard |  |  | 10 |  |  |  |
| **8** | 1 | Input data for calculation |  |  | 10 |  |  |  |
|  |  | **Calculation Result** |  |  | **50** |  |  |  |
| **9** | 0.5 | Check Ullage |  |  | 5 |  |  |  |
| **10** | 0.5 | Check total cargo in every tank |  |  | 5 |  |  |  |
| **11** | 0.5 | Check the result data |  |  | 5 |  |  |  |
| **12** | 0.5 | Check Trim and Stability |  |  | 5 |  |  |  |
| **13** | 0.5 | Safe condition during voyage |  |  | 5 |  |  |  |
| **14** | 0.5 | Check ships draft |  |  | 5 |  |  |  |
| **15** | 0.5 | Check ships strength |  |  | 5 |  |  |  |
| **16** | 0.5 | Check the result data as IMO Resolutions |  |  | 5 |  |  |  |
| **17** | 1 | Final Result of Calculation |  |  | 10 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **18** | 0.5 | Debriefing |  |  |  |  |  |  |
|  | 15 |  |  |  | **100** |  |  |  |

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

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| **No** | **CriticalPerformance** | **Y** | **N** |
| 1 | Total Cargo = 110.000 MT |  |  |
| 2 | GM calculation = 2 - 5 |  |  |
| 3 | Trim = 1 - 3 |  |  |
| 4 | Listing = 0 |  |  |

**Time factor**

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| 15 < minutes = 1 | 16 - 18 minutes = 0.9 | 19 -20 minutes = 0.8 | 20> minutes = 0.5 |

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

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

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