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| Departemen_Perhubungan.wmf | FORM SKENARIO  LABORATORIUM/SIMULATOR/  WORKSHOP | | Nomor Dokumen : FM.USW.01.02a |
| Tgl. Ditetapkan : 02 November 2015 |
| Revisi No : 02 |
| Tgl. Diberlakukan : 09 Januari 2017 |
| Made By : | | Reviewer : |
| PIP SEMARANG | Drs. DARJONO, SP.1, MM, M.Eng | KUNDORI, S.ST, MM | ABDI SENO, M.Si, M.Mar.E |
|  | Mengetahui | | |
|  | Kanit Laboratorium, Simulator & Workshop | | Kepala Bagian Adminitrasi Akademik &Ketarunaan |
|  |  | |  |
|  | YUSTINA SAPAN, S.ST, MM | | Capt. BHARTO ARI RAHARJO |

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| Type Facilities :   * Laboratorium * Simulator * Other | Name Laboratorium/ Simulator/ Other :  **METI** |

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| --- | --- |
| **Criteria on STCW Code** | Planned and carried out in accordance with operating manuals, established rules and procedures to ensure safety of operation. |
| **Function & Level** | Marine Engineering at The Operational Level (ATT : III)\* |
| **Program** | **OPERATION OF DIESEL OIL PURIFIER**  **(**Maintain safe Marine Engineering watch) |
| **Referensi STCW** | Amandemen STCW 2010 table AIII/1 page 79 |
| **aim of Exercise** | To provide adequate Diesel Oil from DO settling Tank to DO Service Tank using DO purifier |
| **Objective** | 1. Knowledge :  * Understanding operation Diesel Oil (DO) Purifier  1. Proficiency :  * familiar with DO pipe line from bunker * can to operation step by step DO purifier * To analize DO purifier when abnormal operation |
| **Initial Condition** | 1. Ship is in port  2. No.1 Diesel Generator is in single running  3. Emergency Diesel Generator auto running  4. Hydrophore system auto position |

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| **Briefing** | 5 minutes |
| **Exercise Duration** | 20 minutes |
| **Debriefing** | 5 minutes |

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| **Criteria** |  |  |  |  |

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| **No** | **Time frame (minutes)** | **Student action** | **Check** | | **Mark** | **Actual time** | **Remark** |
| Y | N |  |  |  |
|  |  | **Performance Criteria** |  |  |  |  |  |
| 1 |  | Response to answer a call from Engine Control Console |  |  |  |  |  |
| 2 |  | Open the guidance booklets |  |  |  |  |  |
| 3 |  | Identify appropriate list |  |  |  |  |  |
| 4 |  | Prepare DO Purifier to starting |  |  |  |  |  |
| 5 |  | Start DO Purifier |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  | **Evaluation Criteria For Performance** |  |  |  |  |  |
| 1 | 1 | Response to answer a call from Engine Console |  |  |  |  |  |
| 2 | 1 | Open the operating manuals |  |  |  |  |  |
|  | 1  2  1  2  2  1  2  2  1  2  1  2  1  1  1 | Identify appropriate list   1. Go to Diesel Oil Purifier 2. Bunker fuel oil DO & FO to double bottom and check computer in ECC 3. Check DO to settling tank and service tank 4. Fill DO to service tank from Double bottom DO 5. Check DO pipe line system position 6. Transfer fuel DO to settling, if low level position 7. Open valve pipe line DO system from settling tank to Purifier, and service tank 8. Open system sludge line to sludge tank 9. Check lubricating oil in the gear pump tank 10. Check FW cooling main air compressor and open air service line 11. Start main air compressor No 1 and change to auto 12. Check Hydrophore tanks and pump No 1 operation auto 13. Check FW pipe line for automatic blow purifier 14. Start DO purifier and check auto lamp 15. Pre heater/heater D.O is not used 16. Waiting normally rpm and ampere is steady |  |  |  |  |  |
|  | **24** |  |  |  |  |  |  |
|  | 1  1  1  1 | 1. Check temperature and pressure DO purifier (computer) 2. Check level and pressure fresh water hydrophore tank 3. Check pressure main air reservoir to service line 4. Check level sludge tank (if overflow) |  |  |  |  |  |
|  | **4** |  |  |  |  |  |  |
|  | **30** | **Total** |  |  |  |  |  |
| **Evidance** | | **Demostrates correct for all above** |  |  |  |  |  |

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

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| --- | --- | --- | --- |
| **No** | **Critical Performance** | **Y** | **N** |
| 1 | Check DO settling and service tanks |  |  |
| 2 | Ampere meter indicator of switch board purifier |  |  |
| 3 | Pressure and level fresh water hydrophore tank |  |  |
| 4 | Check pressure main air reservoir to service line |  |  |
| 5 | Check level sludge tank (if overflow) |  |  |
|  | Total actual time duration to complete mission is **30** minutes or below |  |  |

**Time factor**

|  |  |  |  |
| --- | --- | --- | --- |
| <30 minutes = 1 | 31 – 40 minutes = 0.9 | 41 – 50 minutes = 0.8 | >50 minutes = 0.5 |

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

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

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