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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 | AGUS HENDRO WASKITO, MM. | KRESNO YUNTORO, S.ST | AMAD NARTO, M.Pd., M.Mar.E |
|  | Mengetahui |
|  | Kepala Unit Laboratorium, Simulator dan Workshop | Kepala Bagian Adminitrasi Akademik dan 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** | Operation are planned and carried out in accordance with operating manuals, establish rules and procedures to ensure safety of operation |
| **Function & Level** | Marine Engineering at The Operational Level (ATT : IV)\* |
| **Program** | **Operation Of Heavy Oil (Marine Fuel Oil) Purifier** |
| **Referensi STCW** |  STCW code table AIII/1 page 90 |
| **aim of Exercise** | To operation of heavy oil purifier in engine room officer on duty  |
| **Objective** | Upon completion of this training the student should be able to:1. Respond to answer a call from Engine Console
2. Open the guidance booklets
3. Identify appropriate list
4. Prepare MFO Purifier for starting
5. Start MFO Purifier and Decanter
 |
| **Initial condition** | Ship is in port2. No.1 & No 2 DG is parallel running3. Emergency DG auto running4. Hydrophore system auto position5. Valves condition of MFO purifier off 6. Condition of Air Compressor, Air Pressure off |

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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** | **Remark** | **Actual time** | **Mark** | **No** |
| Y | N |
| 1 | 1 | Respond to answer a call from Engine Console |  |  |  |  |  |  |
| 2 | 1 | Open the operating manuals |  |  |  |  |  |  |
| 3 | 1 | Identify appropriate list |  |  |  |  |  |  |
| 4 | 12 | 1. Go to Marine Fuel Oil (MFO) Purifier
 |  |  |  |  |  |  |
|  |  | 1. Check FO to double button (computer ECC)
 |  |  |  |  |  |  |
|  |  | 1. Open MFO line to MFO Settling tank
 |  |  |  |  |  |  |
|  |  | 1. Check MFO pipe line system position \*
 |  |  |  |  |  |  |
|  |  | 1. Transfer fuel MFO to settling from double bottom MFO
 |  |  |  |  |  |  |
|  |  | 1. Open valve pipe line MFO system from settling tank to Purifier, and service tank \*
 |  |  |  |  |  |  |
|  |  | 1. Open system sludge line to sludge tank
 |  |  |  |  |  |  |
|  |  | 1. Check lubricating oil in the gear pump tank
 |  |  |  |  |  |  |
|  |  | 1. Check pressure main air compressor and open air service line
 |  |  |  |  |  |  |
|  |  | 1. Start auxiliary air compressor No: 1 &2 and change to Auto (ECC)
 |  |  |  |  |  |  |
|  |  | 1. Check Hydrophore tanks and pump No 1 operation Auto (MCB)
 |  |  |  |  |  |  |
|  |  | 1. Open valve FW pipe line for automatic blow purifier
 |  |  |  |  |  |  |
|  |  | 1. Push button On Decanter Feed pump and Decanter Filter
 |  |  |  |  |  |  |
|  |  | 1. Start MFO purifier and check auto lamp
 |  |  |  |  |  |  |
|  |  | 1. Pre heater/heater MFO is used, check line steam from auxiliary boiler
 |  |  |  |  |  |  |
|  |  | 1. Waiting normal rpm and ampere is steady
 |  |  |  |  |  |  |
|  |  | 1. Check MFO service tanks in monitor computer (ECC)
 |  |  |  |  |  |  |
| 5 | 5 | a). Check temperature and pressure MFO purifier (computer) |  |  |  |  |  |  |
|  |  | b). Check level and pressure fresh water hydrophore tank  |  |  |  |  |  |  |
|  |  | d). Check pressure main air reservoir to service line |  |  |  |  |  |  |
|  |  | e). Check level sludge tank (if overflow) |  |  |  |  |  |  |
|  | **20** | **Total** |  |  |  |  |  |  |

\*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 MFO 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) |  |  |
| 6 | Total actual time duration to complete mission is **20** 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 )**