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| Departemen_Perhubungan.wmf | EVALUATION 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 | AMAD NARTO, M.Pd., M.Mar.E | ADI OKTAVIANTO, S.T, M.M |
|  | 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 Diesel Oil Purifier** |
| **Referensi STCW** |  STCW code table AIII/1 page 90 |
| **aim of Exercise** | To provide adequate electrical power for deck machinery operation upon request of deck 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 DO Purifier to starting
5. Start DO Purifier
 |
| **Initial Condition** | 1. Ship is in port2. No.1 DG is in single running3. Emergency DG auto running4. Hydrouphore 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** | **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 Diesel Oil Purifier
 |  |  |  |  |  |  |
|  |  | 1. Check DO Tanks (Tanks list in computer the ECC)
 |  |  |  |  |  |  |
|  |  | 1. Open valve DO line system bunker
 |  |  |  |  |  |  |
|  |  | 1. Bunker fuel oil DO to double bottom and check computer in ECC
 |  |  |  |  |  |  |
|  |  | 1. Check DO to settling tank and service tank
 |  |  |  |  |  |  |
|  |  | 1. Check DO pipe line system position \*
 |  |  |  |  |  |  |
|  |  | 1. Transfer fuel DO to settling tank (Start DO transfer)
 |  |  |  |  |  |  |
|  |  | 1. Open valve pipe line DO 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 general service line (0,7 MPa)
 |  |  |  |  |  |  |
|  |  | 1. Check air valve to control system air lines
 |  |  |  |  |  |  |
|  |  | 1. Check Hydroufor FW tanks pump No 1,& Drink pump No 1 Auto (MCB)
 |  |  |  |  |  |  |
|  |  | 1. Check FW pipe line for automatic blow purifier
 |  |  |  |  |  |  |
|  |  | 1. Start DO purifier and check auto lamp
 |  |  |  |  |  |  |
|  |  | 1. Pre heater/heater D.O is not used
 |  |  |  |  |  |  |
|  |  | 1. Waiting normal rpm and ampere is steady
 |  |  |  |  |  |  |
|  |  | 1. Check D.O service tanks in monitor computer (ECC)
 |  |  |  |  |  |  |
| 5 | 5 | a). Check temperature and pressure DO purifier (computer) |  |  |  |  |  |  |
|  |  | b). Check level and pressure fresh water hydrouphore tank  |  |  |  |  |  |  |
|  |  | c). Check pressure main air reservoir to service line |  |  |  |  |  |  |
|  |  | d). Check level sludge tank (if overflow) |  |  |  |  |  |  |
|  | **20** | **Total** |  |  |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Critical Performance** | **Y** | **N** |
| 1 | Check DO settling and service tanks (ECC) |  |  |
| 2 | Amperemeter indicator of switch board purifier |  |  |
| 3 | Pressure and level fresh water hydrouphore 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 **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 )**