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| Departemen_Perhubungan.wmf | EVALUATION SHEET  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 | ADI OKTAVIANTO, ST, MM | ABDI SENO, M.SI., M.Mar.E |

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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 V) |
| **Program** | **Preparation, Starting Up Generator And Power Up Main Switch Board Scenario** |
| **Referensi STCW** | STCW code table AIII/page 90 |
| **aim of Exercise** | *To provide adequate electrical power for deck and engine room machinery operation from dead ship condition* |
| **Objective** | Upon completion of this training the student should be able to :   1. Open the guidance booklets 2. Identify appropriate list 3. Prepare DG prior to starting 4. Start DG properly 5. Provide power for deck and engine room machineries |
| **Initial Condition**  (Run ERS by mode 5) | 1. Ship is in port 2. No.1 and no.2 DG are in stop condition 3. No.1 and no,2 DG in remote control position 4. Starting air valves for DG are closed 5. All air circuit breakers are opened 6. Valve BB.close 7. Sytem cooler and lubricant ready |

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| **Briefing** | 5 minutes |
| **Exercise Duration** | 15 minutes |
| **Debriefing** | 5 minutes |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Time frame (minutes)** | **Student action** | **Check** | | **Remark** | **Actual time** | **Mark** | **No** |
| Y | N |
|  | 5 | Briefing\* |  |  |  |  |  |  |
| 1 | 1 | Open the operating manuals |  |  | **2** |  |  |  |
| 2 | 1 | Identify approiate list |  |  | **3** |  |  |  |
| 3 | 7 | Preparing prior to start DG | | | | | | |
|  | 1. Go to diesel Generator engine |  |  | 5 |  |  |  |
|  | 1. Change DG control position from remote to local control |  |  | 5 |  |  |  |
|  | 1. Check lubricating oil in the sump tank |  |  | 5 |  |  |  |
|  | 1. Start LO priming pump |  |  | 10 |  |  |  |
|  | 1. Pick up turning bar |  |  | 5 |  |  |  |
|  | 1. Turn DG Engine shaft minimum 2 turns |  |  | 5 |  |  |  |
|  | 1. Put turning bar back in place properly |  |  | 5 |  |  |  |
|  | 1. Line up fuel oil from DO service tank to diesel engine |  |  | 10 |  |  |  |
|  | 1. Open starting air valve from air bottle |  |  | 5 |  |  |  |
|  | **Sub Total** | | | **50** |  |  |  |
| 4 | 3 | Starting of DG |  |  |  |  |  |  |
|  | 1. Push starting button |  |  | 5 |  |  |  |
|  | 1. Check DG to make sure it is in good condition |  |  | 10 |  |  |  |
|  |  | 1. Change DG control to remote position |  |  | 5 |  |  |  |
|  | **Sub Total** | | | **20** |  |  |  |
| 5 | 3 | Power up main switch board : |  |  |  |  |  |  |
|  | 1. Go to the main switch board |  |  | 2 |  |  |  |
|  | 1. Check voltage and adjust if necessary |  |  | 5 |  |  |  |
|  | 1. Check frequency and adjust if necessary |  |  | 5 |  |  |  |
|  | 1. Close ACB of no. 1 or no. 2 DG |  |  | 3 |  |  |  |
|  | 1. Switch on breaker for deck and engine room machineries |  |  | 5 |  |  |  |
| 30 | **Sub Total** | | | **20** |  |  |  |
|  | 5 | Debriefing |  |  |  |  |  |  |

Preparation Tasks: Refer Diesel Engine manual and METI Engine Room Simulator check list to running ME.

\*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 | Strat DG properly |  |  |
| 2 | Starting of LO priming pump |  |  |
| 3 | Put turning bar back in place properly |  |  |
| 4 | The mission must be completed within 15 minutes or below |  |  |
| 5 | Strat DG properly |  |  |

**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 )**