



The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage: http://www.myiem.org.my

Talk on Applications of Reliability and Maintainability Engineering in System Life Cycle – Naval and Marine Environment

BEM Approved CPD/PDP Hours: 2 Ref No: IEM13/HQ/016/T

Date: ~~13 March 2013 (Wednesday)~~
POSTPONED (until further notice)
Time: ~~5.30 p.m – 7.30 p.m (Refreshments
will be served at 5.00 p.m)~~
Venue: ~~C&S Lecture Room, 2nd Floor,
Wisma IEM~~
Speaker: ~~Captain Ir Sukhdev Singh~~

Organised by :
Marine Engineering & Naval Architecture Technical Division, IEM

SYNOPSIS

In the past, products were developed with system support as an afterthought. Today, Systems Engineering Process is applied to all new acquisitions and products, where, from the identification of a need statement, the process extends through planning, research, production/construction, test and evaluation, consumer use, maintenance and support and ultimate retirement. This System Life Cycle approach requires appropriate integration of design, reliability, maintainability, human factors to the total engineering design effort. This will enable the system to perform as intended in an effective and efficient manner. Hence, reliability and maintainability engineering is an integral part of systems engineering process. Hence, design, reliability and maintainability engineering analysis is applied to the operational/mission requirements to define the maintenance concept and performance requirements. In turn, determines system support requirements, such as, maintenance plans, parts, technical documentation, training, and support facilities; and ultimately this will influence the cost of ownership.

This talk shall provide the basic principles and practices of reliability and maintainability engineering analysis in the Systems Engineering Process and System Life Cycle.

BIODATA OF SPEAKER

Captain Ir Sukhdev, a student of the Royal Military College, obtained a First Class B Sc Honours Degree in Electrical Engineering from Royal Naval Engineering College, Plymouth, UK in 1980 and a Masters Degree in Operations Research from Naval Post Graduate School, Monterey, US in 1991. He served the Royal Malaysian Navy (RMN) for 28 years and retired as a Naval Captain in 2002. He then ventured into the Defence Industry and joined Boustead Heavy Industries Corporation Berhad and has been there for the last 10 years and is a Senior General Manager. During his tenure in the Navy, he served onboard the frigate, KD RAHMAT, as a Weapon and Electrical Engineering Officer and held various Staff Weapon and Electrical Engineering positions at Fleet Operations Command Headquarters, Fleet Systems Command Headquarters and Navy Headquarters in MINDEF. He was the Director of Integrated Logistics Support (ILS) and was responsible to institutionalize ILS in all Navy Acquisition Projects, including He was also the Director of Information Technology, where in 2002, under his leadership, the RMN won the Prime Minister's Award in the Public Sector, for deploying the TLDM*Net to all units in the RMN. In Boustead Heavy Industries, Captain Sukhdev was the Head of ILS for the Patrol Vessel Project and was responsible for planning, analyzing, preparing, acquiring and delivering logistics support package for the Patrol Vessels. He has widely applied the principles and practices of Reliability and Maintainability Engineering during his course of duties and responsibilities. He was also responsible and played a key role in setting up the Joint Venture Company, Boustead DCNS Naval Corporation, for the maintenance of the Scorpene Submarines. Currently he is the Director in the Company and also served as a committee member of Marine Engineering and Naval Architecture Technical Division (MNATD) at IEM.

First Admiral Dato' Ir. Hj. Murad Bin Hj. Omar
Chairman,
Marine Engineering & Naval Architecture Technical Division, IEM

ANNOUNCEMENTS TO NOTE

- Talk is **STRICTLY** for IEM members only (**pre-registration and online registration NOT required**)
- Telephone and/or reservation will **NOT** be accepted. Seats are available on a "first come first served" basis (maximum 100 participants). IEM members are required to produce your membership cards for confirmation (attendees CPD purpose). Latecomers will not be allowed to attend if the lecture has fully commenced to CPD. **IEM members who fail to produce their membership cards will be charged a fee of RM20.00**

FUNDS FOR IEM BUILDING FUND (WISMA IEM)

- Kindly be informed that IEM will be charging participants RM10.00 administrative fee for talks organized by IEM.
- The fee would be used for overhead costs, building maintenance expenses as well as to support the purchase of the new building.
- All contributions will be deeply appreciated by IEM
- Students are however exempted.

Your understanding is greatly appreciated.

CPD HOURS CONFIRMATION

Name: _____

Membership: _____

Signature: _____