



Webinar Talk on “Insights of a Black Box - the Flight Data Recorder”

23rd August 2022 | 3.00PM to 5.00PM | ZOOM – Virtual Platform

Co organized with:

Mechanical Engineering Technical Division, IEM & Association of Malaysia Airlines Licensed Aircraft Engineers

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Ref No: IEM22/HQ/306/T (w)



Presenter:

Ts. Dr. Ravintran Mariappan

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Synopsis:

A flight data recorder (FDR), a cockpit voice recorder (CVR), and a combined cockpit voice and flight data recorder are the three basic types of recording devices used in aerospace (CVFDR). These gadgets record an aircraft's flight history and supply crucial data for fleet management and flight investigations.

Distinct types of data must be provided for each flight investigation to conduct an in-depth study, reproduce what actually had occurred, and investigate the underlying causes of any incident or accident. Hence comes the real need these flight data recording to be always made available and its requirements are governed by regulations through the regulatory bodies.

How and what is recorded in a flight cycle from engine start until engine shutdown? How can we use these data to analyze and effectively produce a clear picture of what happened and put in place preventive measures for the future? This webinar touches only the basic fundamentals of the flight data recording system and general understanding of how the data is captured, what happens with it and how engineers and analysts use to simulate, prevent and predict any event as real as it can be for positive learnings.

Speaker's Profile:

"Make your life simply, extraordinary," the quote that summarizes Ts. Dr. Ravintran Mariappan in all that he does. He has been in the aviation industry (Engineering & Maintenance) since 1991. Currently, he is with a local airline, serving as an assistant duty manager (Maintenance Operations Control) and he is the current Vice President of the Association of Malaysia Airlines Licensed Aircraft Engineer (AMALAE). He is also a visiting lecturer at several universities both local and abroad and holds a chain of degrees such as a PhD in Business Administration, master's in information technology, Bachelor of Engineering in Electrical, Electronics and Systems with Honors, Diploma in Mental Health and, an Aircraft Maintenance Engineer License (AVIONICS- B2) from both Civil Aviation Authority Malaysia (CAAM) and Civil Aviation Authority of United Kingdom (CAA UK).

He started his career as a trainee engineer, established as a Licensed Aircraft Maintenance Engineer in 1994 and worked on variety level of positions, including as a station engineer in Yangon, Myanmar and MRO Change Lead and Business Lead for system and engineering process improvement. He is a registered Graduate Engineer and Engineering Technologist at the Board of Engineers Malaysia (BEM), a Professional Technologist of the Malaysia Board of Technologist (MBOT), a certified Business Coach from University Malaya, a certified HRD Corp Trainer, a Master Trainer in Soft Skills and an Image Consultant from National Institute Skills Training, India. Dealing with both machines (aeroplanes) and human minds, he had developed a passion to touch every heart that he encounters. He has incorporated values into all of his trainings, seminars, coaching sessions and workshops effectively for an instant, positive outcome. He has coached & trained students (schools / colleges / public & private universities), athletes, trainee engineers, apprentices, laborers, lecturers, executives, physicians, politicians, entrepreneurs, and managers of varieties of background and schools of thinking throughout India, Sri Lanka, Singapore, Myanmar, Indonesia, Vietnam, East, and West Malaysia.

Ir. Dr. Aidil Chee Tahir

Chairman

Mechanical Engineering Technical Division, IEM