

Fundamentals of RCM Analysis Training Course

This course is based on the Naval Air Systems Command's RCM process provided in NAVAIR 00-25-403, Guidelines for the Naval Aviation Reliability Centered Maintenance Process. This process is non-proprietary and fully compliant with SAE JA-1011. Although developed for aviation, the NAVAIR process has been used successfully on a wide range of industrial equipment. The course provides practical knowledge and includes case studies and information that can be incorporated into any RCM process. The course reviews the role of RCM in industry today and will address the history and benefits of RCM, as well as issues related to sustaining an RCM Program. We also offer a version of this course specifically tailored to the NAVAIR 00-25-403 process for US Military customers.

Course Instructor

JC Leverette is a Senior Engineer at Information Spectrum, Inc. and is currently the Program Manager for RCM efforts there. He is currently leading RCM efforts on a wide range of military and industrial equipment. Prior to that Mr. Leverette was a senior engineer at the Naval Aviation Depot in Jacksonville, Florida where he was responsible for implementation of RCM based maintenance programs on various US Navy and USMC aircraft. Mr. Leverette was the recipient of the 1997 RADM Claud A. Jones Award, from the American Society of Naval Engineers, for development of the RCM based T-45 Integrated Maintenance Program. He was a contributor to the development of Society of Automotive Engineers Standard JA-1011, Evaluation Criteria for Reliability Centered Maintenance Processes. As member of the Naval Air Systems Command RCM Steering Committee, Mr. Leverette assisted with development of various RCM standards and processes, training materials, and RCM software. Mr. Leverette has 15 years experience in RCM and related fields. He holds a Bachelors degree in Aerospace Engineering from the University of Florida.

Course Contents

Introduction

1. RCM Introduction, Terminology and Concepts
2. The Role of RCM in Industry

RCM Process Overview

1. Hardware Partitioning
2. FMECA
3. Significant Functions
4. RCM Decision Logic

Performing RCM

1. Planning and Preparation
2. RCM Software Review
3. Failure Management Strategies
4. Age Exploration
5. Common Mistakes

Sustaining the Process

1. Emergent Failures
2. Routine Monitoring

Other Topics

Scoping the analysis (what and how much), Analysis Ground Rules & Assumptions, Data sources, Task interval calculations, Cost calculations, Predictive Maintenance Technologies, Measuring results, CMMS Interface