

AIRCRAFT RELIABILITY AND RELIABILITY CENTRED MAINTENANCE

PROGRAMME REFERENCE:

ARRCM

PROGRAMME PRE-REQUISITES:

A good engineering background.

PROGRAMME SYNOPSIS:

This professional development training programme is designed to equip participants with the fundamental knowledge and skills necessary to model, predict, and statistically evaluate aircraft reliability, and also develop, implement, and manage an aircraft RCM programme in accordance with industry standard requirements. The programme includes a number of case studies and activities to facilitate practical understanding and competence development.

KEY TOPICS:

- ✈ Fundamentals of Continuing Airworthiness
- ✈ Introduction to Reliability Engineering
- ✈ Modelling & Prediction: ED, WRD, RBD, & FTA
- ✈ Principles, Process, & Benefits of RCM
- ✈ MRB Process: AMP Development (MSG-3)
- ✈ OMP: AMP Customisation Process
- ✈ Establishing Reliability Alert Levels
- ✈ Reliability Monitoring & Analysis
- ✈ Investigating Reliability Alerts
- ✈ Safety, Operational, & Cost Considerations
- ✈ Establishing & Tracking Corrective Actions
- ✈ Reliability (Monitoring) Programme Review

BENEFITS OF ATTENDING:

By the end of the programme, participants will be able to:

1. Explain what continuing airworthiness entails in practical terms.

2. Define key terms in Reliability Engineering.
3. Model, predict, and statistically evaluate the reliability of aircraft, systems, & components.
4. State the reg requirements reference for AMPs and reliability (monitoring) programmes.
5. Outline the principles, process, & benefits of RCM and discuss the industry standard process for developing and customising an AMP.
6. Carryout reliability monitoring activities and complete a reliability programme review.

PROGRAMME DURATION:

3 Days - 18 Training Hours

MODE OF DELIVERY:

Online (Virtual Classroom)

DELIVERABLES:

- ✈ Instructor-Led Training Sessions
- ✈ Training Workbook & Notepad
- ✈ Access to Training Materials & Resources
- ✈ Training Activities
- ✈ Training Completion Assessment
- ✈ Recorded Completion Certificate
- ✈ [ARRCM Book for Practitioners](#) (Complimentary)

TARGET PARTICIPANTS:

Any engineer required to be actively involved with aircraft/components design, the MRB process and/or RCM within an aircraft operational environment. In particular, the programme is suitable for personnel who are new to the subject matter, or are already familiar with the fundamentals of the subject but require formal training to improve their knowledge and practical skill set.