

## 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:

5 Days - 30 Training Hours

## PROGRAMME AVAILABILITY:

**SCHEDULED (PHYSICAL CLASSROOM):** Not Available**IN-COMPANY:** Available - Standard & Tailored**ONLINE:** Available - View options [here](#)

## PROGRAMME FEE:

**SCHEDULED (PHYSICAL CLASSROOM):** Not Applicable**IN-COMPANY:** Please [contact us](#) for a quote**ONLINE:** Please [click here](#) for details

## WHO SHOULD ATTEND?

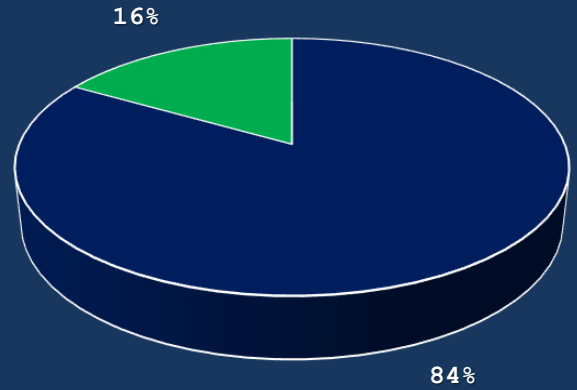
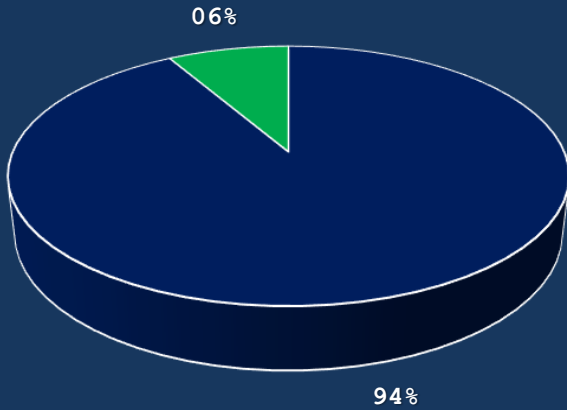
Any engineer required to be actively involved with aircraft/components design, the MRB process and/or RCM within an aircraft operational environment. In particular, the programme is suitable for personnel who are new to the subject matter, or are already familiar with the fundamentals of the subject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



## 6 REASONS TO TRAIN WITH US

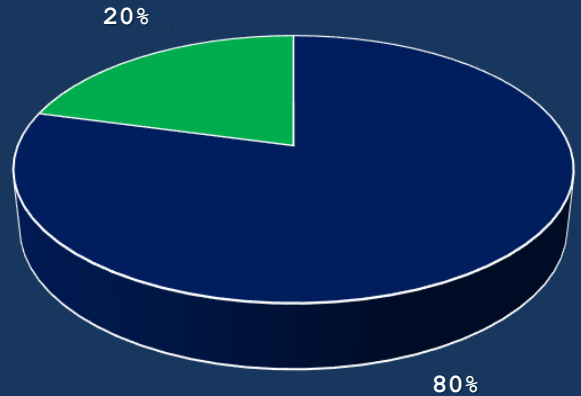
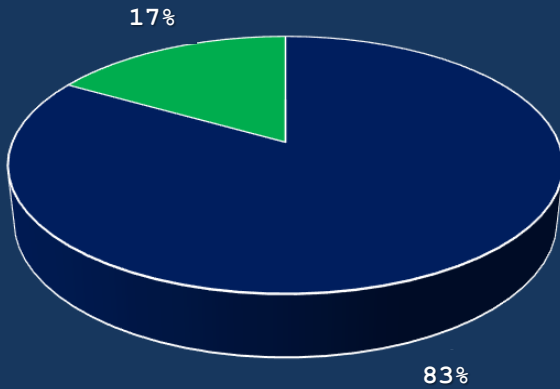
- ✓ ALL of our instructors are registered with the UK Engineering Council – UK's regulatory body for Engineering Professionals.
- ✓ We offer the best combination of quality and affordability across the industry.
- ✓ Our programmes have been specifically designed to equip participants with knowledge, skills, and techniques for professional practice.
- ✓ Our instructors engage with individual participants and inspire performance.
- ✓ We issue professional development completion certificates that are recorded and have unique reference numbers. This facilitates third party verification, or replacement requests.
- ✓ Our programmes facilitate compliance with regulatory requirements and promote professionalism and best practices.

## 2020 TRAINING FEEDBACK STATISTICS



a.) Overall, how satisfied are you that the programme has delivered its Learning Outcomes (LOs)?

b.) How would you rate the training programme in terms of its practical relevance to professional practice?



c.) How would you rate the performance of the instructor in terms of programme delivery clarity and expertise?

d.) How likely are you to recommend the programme to someone else?

**KEY:**

- EXTREMELY SATISFIED/EXCELLENT/EXTREMELY LIKELY
- VERY SATISFIED/GOOD/VERY LIKELY
- SATISFIED/SATISFACTORY/LIKELY
- VERY UNSATISFIED/POOR/VERY UNLIKELY
- EXTREMELY UNSATISFIED/EXTREMELY POOR/EXTREMELY UNLIKELY

## KEY BENEFITS OF OUR ONLINE TRAINING SYSTEM



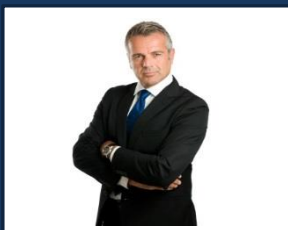
**ACTIVE:** Our online training system is active in that it has been designed to engage trainees in the learning process through knowledge and skill development activities and progress assessments.



**INTERACTIVE:** Our online training system is facilitated by interactive study materials and features illustrative resources such as case studies, videos, and infographics which enhance the learning experience. Furthermore, ALL progress assessments include an interactive challenge.



**MOBILE ACCESS:** Our online training system can be accessed on desktop and mobile devices alike, which means you can complete your training anytime and anywhere you have internet access.



**INSTRUCTOR SUPPORT:** Our online training system comes with instructor support as standard and there is no limit on the number of times you can consult an instructor throughout the duration of your programme.



**FLEXIBLE LEARNING:** Our online training system is designed to facilitate flexible learning so that you can complete your training at a pace which suits you.



## **REGULATORY BASIS OF OUR GENERAL TRAINING PROGRAMMES**

Our general training programmes have been developed with the EU/EASA regulatory framework in mind. On request however, we are able to adapt these programmes to facilitate compliance with other regulatory requirements through our onsite, online, and bespoke training services.

For further enquiries please [click here](#) to contact us.

## **TRAINING TERMS AND CONDITIONS**

Please [click here](#) or visit the training section of our website to view a copy of our training terms and conditions.