

RELIABILITY PROGRAMMES (INCLUDING MAINTENANCE PROGRAMMES)	
Scope of training	This course provides an insight into the regulatory requirements and practical oversight of Aircraft Maintenance Programmes and Reliability Programmes.
Objectives of the course	<p>The Objectives of this course are to provide an introduction to the following:</p> <ul style="list-style-type: none"> • ICAO and EU regulations on Maintenance Programmes (MPs) • The Type Certificate Holder processes, MRB process relating to developing A/C maintenance programmes (AMP) • Maintenance steering group (MSG) history, MSG 1/2/3 analysis, certification maintenance requirements, Airworthiness Limitations, design requirements relating to scheduled maintenance • What is MSG? How does MSG compare with MSG2/MSG 1 • Safety Assessment of Systems • Regulations which will affect the approval, management and development of MPs such as <ul style="list-style-type: none"> ○ ageing structures / zonal inspections ○ fuel system safety (CDCCL), ○ high intensity radiated frequency (HIRF)/ Lightning HIRF ○ electrical wire interconnect systems (EWIS) ○ Reliability Programmes and Reports • The processes associated with operator management of maintenance programmes including escalation and optimisation, engine and component off-wing programmes, alignment / bridging checks • Generic/Baseline/Low Utilization Programmes and Customised AMP • Contents of AMPs for compliance with Authority requirements (EASA Part M / SARI Part M) • Approval of AMPs including assessing the process for In House approval for Operators
Course duration	3 days
Recommended participant profile	This course is suitable for all AIR inspectors involved in the oversight of Aircraft Maintenance Programmes and Reliability Programmes.
Key topics	<ul style="list-style-type: none"> • Introduction, Requirements for a Maintenance Programme (ICAO and EU/SARI regulations with respect to continuing airworthiness and AMPs) • TC (Type Cert.) Holder processes, MRB process relating to developing A/C maintenance programmes (AMP) • Principles underlying the TC processes • Differences between Generic/Baseline/Low Utilisation Programmes and Customised AMP • Provide information relating to developing regulations which will affect the approval, management and development of MP such as: <ul style="list-style-type: none"> ○ ageing structures /zonal inspections ○ fuel system safety (CDCCL), ○ high intensity radiated frequency (HIRF)/+ Lightning HIRF ○ electrical wire interconnect systems (EWIS) • Reliability Programmes and Reports • Significance of the interactions between design requirements, maintenance programme development, maintenance standards and inspection standards • Processes associated with operator management of maintenance programmes including escalation and optimisation, engine and component off-wing programmes, alignment / bridging checks.

	<ul style="list-style-type: none"> • Checking the contents of AMPs for compliance with Authority requirements (EASA Part M/SARI Part M) • MRB report, Maintenance Planning Data, Supplemental Inspection Documents • Approval of AMPs including assessing the process for In House approval for Operators • Maintenance steering group (MSG) history, MSG 1/2/3 analysis, certification maintenance requirements, Airworthiness Limitations, design requirements relating to scheduled maintenance, what is MSG? How does MSG compare with MSG2/MSG 1 • Systems / Powerplant Programme • Structures Programme Development/ Airworthiness Limitation Items • Zonal Programme Development
Method of delivery	Classroom training includes PowerPoint presentations, case study discussions, group activities and group discussions, providing both the theoretical knowledge, and the practical context to underpin the delegates learning.
Maximum participants	16
Logistical requirements requested from host state	Classroom training: projector and screen, a flip chart with marker pens, U shaped class layout.