BUTTERFLY TRAINING



Electrical Wiring Interconnect System (EWIS) Training Group 1 & 2 - Initial

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EWIS1-2-I-EN

Description

Electrical Wiring Interconnect System (EWIS) Training Group 1 & 2 - Initial

Aviation Accident Investigators have specifically cited the need for improved training of personnel to ensure adequate recognition and repair of potentially unsafe aircraft wiring conditions. This Online training will greatly enhance the awareness with regard to the importance of EWIS safety as concerns the overall safe operation of aeroplanes.

Duration: 6 to 8 hours

Program:
A – GENERAL ELECTRICAL WIRING INTERCONNECTION SYSTEM PRACTICES
1. Safety practices
2. Electrostatic discharge sensitive (ESDS) device handling and protection
3. Tools, special tools, and equipment
4. Verifying calibration/certification of instruments, tools, and equipment
5. Required wiring checks using the troubleshooting procedures and charts
6. Measurement and troubleshooting using meters
7. LRU replacement general practices
B - WIRING PRACTICES DOCUMENTATION
8. Standard wiring practices manual structure/overview
9. Chapter cross-reference index
10. Important data and tables
11. Wiring diagram manuals
12. Other documentation as applicable
C – INSPECTION
13. General visual inspection (GVI), detailed inspection (DET), special detailed inspection (SDI), and zonal inspection, and their criteria and standards
14. Human factors in inspection
15. Zonal areas of inspection
16. Wiring system damage
D – HOUSEKEEPING
17. Aeroplane external contamination sources
18. Aeroplane internal contamination sources
19. Other contamination sources
20. Contamination protection planning

21. Protection during aeroplane maintenance and repair
22. Cleaning processes

E – WIRE

23. Wire identification, type and construction
24. Insulation qualities and damage limits
25. Inspection criteria and standards for wire and wire bundles
26. Wire bundle installation practices
27. Typical damage and areas found (aeroplane specific)
28. Maintenance and repair procedures
29. Sleeving
30. Unused wires - termination and storage
31. Electrical bonding and grounds

Prerequisites: A good understanding of English.

Target Group: The training program is aimed at the personnel who are not directly involved in the maintenance and inspection of EWIS, identified as (i.a.w. AMC 20-22): Target group 1 and 2

Validity: 2 years

Exam conditions

MCQ

Certification

A certificate will be issued at the end of the training course.