

APPENDIX A

WIRING SYSTEMS MINIMUM INITIAL TRAINING PROGRAM

- Target group 1: Qualified staff performing wire **systems** maintenance
- Target group 2: Qualified staff performing maintenance inspections on wiring systems
- Target group 3: Qualified staff performing electrical/avionic engineering on in service aircraft
- Target group 4: Qualified staff performing general maintenance/inspections not involving wire maintenance
- Target group 5: Qualified staff performing other engineering or planning work on in service aircraft
- Target group 6: Other service staff with duties in proximity to wire **systems**
- Target group 7: **Flight Deck Crew**
- Target group 8: **Cabin Crew**

TARGET GROUP	1	2	3	4
A – INTRODUCTION				
Demonstrate the safe handling of airplane electrical systems, Line Replaceable Units (LRU's), tooling, troubleshooting procedures, and electrical measurement.				
1. Safety practices	X	X		X
2. Electrostatic Discharge Sensitive (ESDS) Device handling and protection	X	X		X
3. Tools, special tools and equipment	X	X		
4. Verify calibration/certification of instruments, tools, and equipment	X	X		
5. Required wiring checks using the Troubleshooting Procedures and Charts	X			
6. Measurement and troubleshooting using meters.	X	X		
7. LRU replacement general practices	X	X		X
B – WIRING PRACTICES DOCUMENTATION	1	2	3	4
Know the construction and navigation of the applicable airplane wiring system overhaul or wiring practices manual				
8. Chapter 20 structure/overview	X	X	X	
9. Chapter cross-reference Index	X	X	X	
10. Important Data and Tables	X	X	X	
11. Wiring Diagram Manual	X	X	X	
12. Other Documentation as applicable	X	X	X	
C – INSPECTION	1	2	3	4
Know the different types of inspections, human factors in inspections, zonal areas and typical damages				
13. General Visual Inspection (GVI), Detailed Inspection (DET),	X	X		X

Special Detailed Inspection (SDI), Zonal Inspection and Enhanced Zonal Inspection Analysis Procedure (EZAP)				
14. Human factors in inspection		X		
15. Zonal areas of inspection		X		
16. Wiring system damage	X	X		X
D – HOUSEKEEPING: Know the contamination sources, materials, cleaning and protection procedures	1	2	3	4
17. Airplane external contamination sources	X	X		X
18. Airplane internal contamination sources	X	X		X
19. Other contamination sources	X	X		X
20. Contamination protection planning	X		X	X
21. Protection during airplane maintenance and repair	X		X	X
22. Cleaning processes	X		X	X
E – WIRE: Demonstrate the correct identification of different wire types, their inspection criteria, and damage tolerance, repair and preventative maintenance procedures	1	2	3	4
23. Identification, type and construction	X	X	X	
24. Insulation damage limits	X	X	X	
25. Inspection criteria and standards of wire and wire bundles		X	X	
26. Wire bundle installation practices	X	X	X	
27. Typical damage and areas found (airplane specific)	X	X	X	X
28. Maintenance and repair procedures	X	X	X	
29. Sleeving	X	X	X	
30. Unused wires-termination and storage	X	X	X	
31. Electrical bonding and grounds	X	X	X	X Bond
F – CONNECTIVE DEVICES: Know the procedures to identify, inspect and find the correct repair for typical types of connectors found on the technician's airplane.	1	2	3	4
32. General types and identification	X	X	X	
33. Cautions and protections	X	X	X	
34. Visual inspection procedures	X	X	X	
35. Typical damage found	X	X	X	
36. Repair procedures	X	X	X	
APPENDIX A final report WG8 ATSRAC				

G – CONNECTIVE DEVICE REPAIR:	1	2	3	4
Demonstrate the procedures to replacement of all parts for typical types of connectors found on the technician's airplane.				
37. Circular Connectors	X			
38. Rectangular Connectors	X			
39. Terminal Blocks-Modular	X			
40. Terminal Blocks- Non-modular	X			
41. Grounding Modules	X			
42. Pressure Seals	X			

ce.(LRU change is not considered wire maintenance)

5	6	7	8
	X	X	X
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APPENDIX A			
final report WG8			
X ATSRAC			

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