

TABLE 3: DESCRIPTION OF MAJOR TOPICS AS MINIMUM CONTENT

MAJOR TOPIC	DESCRIPTION
SAFETY PRACTICES	Safety regulations and general safety precautions to prevent injury to personnel and damage to the airplane
AIRPLANE ENVIRONMENTAL AREAS	Definition of types of areas upon which wiring configuration and wiring component selection is constrained
CONSUMABLE MATERIALS	Wiring maintenance processing materials (solvents, aqueous cleaners, lubricants, etc.)
WIRING MATERIALS	Materials that become an integral part of the wiring configuration excluding wire and cable; e.g., sleeves, shield material, tie material, sealants, etc.
COMMON TOOLS	Description and operation of common tools
EWIS PROTECTION DURING MAINTENANCE	Procedures to protect EWIS during airplane maintenance and modification
EWIS CLEANING	In support of inspection as well as prevention of degradation and preparation for repair; recommended cleaning materials and procedures based on type of contamination
EWIS INSPECTION	Criteria for correct installation, correct wiring assembly configuration; damage conditions and limits for wiring components (wire and cable, termination types, electrical devices); factors that warrant disassembly for inspection; determination of cause of damage
EWIS TESTING	Wiring integrity testing
EWIS DISASSEMBLY	Data and procedures in support of inspection, cleaning when applicable; also supports new wiring installation
EWIS REPAIR AND REPLACEMENT	Repair of wiring installation, wiring assembly configuration, wiring components (wire and cable, wiring terminations, electrical devices); wire and cable replacement; wiring functional identification
WIRE SEPARATION / SEGREGATION	Explanation of separation / segregation categories, separation / segregation identification, and necessary conditions for maintaining separation / segregation
ELECTRICAL BONDS AND GROUNDS	Bond surface preparation, ground hardware configurations, bond integrity testing
WIRE HARNESS INSTALLATION	Routing, supports, wiring heat, moisture, and vibration protection, factors affecting wiring assembly configuration; connection to equipment, new wiring, removal from service
WIRE AND CABLE TYPES	The principal material component of airplane wiring; includes type identification and basic description; alternative wire types (replacements, substitutions)
WIRE MARKING	Marking; applicable conditions
WIRE HARNESS ASSEMBLY	Wiring assembly configuration: assembly materials, layout, overall protection; factors affecting wiring installation
WIRE INSULATION AND CABLE JACKET REMOVAL	Wire and cable: Insulation removal, jacket removal; associated damage limits, tool description and operation
<<TERMINATION TYPE>> e.g., SOURIAU 8950 SERIES CONNECTORS	Wiring terminations and accessories (connectors, terminal lugs, splices, backshells, etc.) grouped by termination type from simple to complex: a. Common data or procedures by group (if any); e.g., tool description and operation, definition of internal damage and limits, internal cleaning, accessories b. By individual type - part numbers and description, definition of internal damage and limits (if not specified by common data), disassembly, assembly, installation
<<DEVICE TYPE>> e.g., KLIXON 7274 SERIES CIRCUIT BREAKER	Electrical devices (circuit breakers, relays, switches, filters, lamps, etc.) grouped by device type: a. Common data or procedures by group (if any); e.g., tool description and operation, definition of internal damage and limits, internal cleaning, accessories b. By individual type - part numbers and description, definition of internal damage and limits (if not specified by common data), disassembly, assembly, installation
SPECIFIC WIRING ASSEMBLY	For wiring that has a necessarily specific configuration (e.g., Primary Flight Control, Fuel Quantity Indicator System, etc.): - Applicable conditions for repair and replacement - Disassembly, assembly, installation, assembly integrity testing
AIRLINE SPECIFIED	Reserved for airline use