

Media Analysis Report

Avionics System

For each Learning Objective, compares the time needed to acquire the knowledge/skills as well as the effectiveness of recommended media to current delivery option.

Learning Objective	Current			Recommended		
	Media	Time [hours]	Rating	Media	Time [hours]	Rating
Describe General Safety Practices	Lecture	1.67	85%	CBT 2	1.17	94%
Describe Basic Soldering Function	Lecture	0.83	100%	CBT 1	0.58	100%
Describe the Soldering Process	Lecture	0.83	85%	CBT 2	0.58	94%
Describe the Soldering Iron	Lecture	0.83	86%	Lecture	0.83	86%
Conduct Rework and Repair	Lecture	0.83	86%	Lecture	0.83	86%
Clean EWIS for Soldering	Lecture	0.83	86%	Lecture	0.83	86%
Describe Wire Termination	Lecture	0.83	86%	Lecture	0.83	86%
Conduct Wire Termination	Practice	5	87%	Practice	5	87%
Describe Handling Procedure of Circuit Boards	Lecture	0.83	86%	Lecture	0.83	86%
Describe Circuit Boards Components	Lecture	1.67	86%	Lecture	1.67	86%
Configure Circuit Boards	Practice	6.67	87%	Practice	6.67	87%
Insulate Aircraft Wires	Practice	0.83	87%	Practice	0.83	87%
Describe Electromagnetic Interface	Lecture	1.67	86%	Lecture	1.67	86%
Describe Bonding Classes	Lecture	1.67	86%	Lecture	1.67	86%
Test Bonds & Grounds	Practice	0.83	87%	Practice	0.83	87%
Test Static Wicks	Practice	0.83	87%	Practice	0.83	87%
Conduct Static Test Procedure	Practice	0.83	88%	Practice	0.83	88%
Identify Various Type of Wires	Lecture	1.67	100%	CBT 1	1.17	100%
Mark Wires	Practice	0.83	85%	CBT 2	0.58	94%
Describe Hardware Maintenance Procedures	Lecture	1.67	85%	CBT 2	1.17	94%
Tie and Lance Wire Bundles	Practice	2.5	87%	Practice	2.5	87%
Describe Electronic Connectors	Lecture	2.5	100%	CBT 1	1.75	100%
Front and Rear Release Connector	Practice	1.67	87%	Practice	1.67	87%
Describe Radio Frequency Cables	Lecture	1.67	86%	Lecture	1.67	86%
Crimp and Attach RF Connectors to Coaxial Cables	Lecture	0.42	85%	CBT 2	0.29	94%
Describe Test Equipment	Lecture	0.83	86%	Lecture	0.83	86%
Conduct RF Maintenance Connector Procedure	Practice	11.67	87%	Practice	11.67	87%
Lockwire Multiple Connectors Coax Connectors	Practice	0.83	87%	Practice	0.83	87%
Shearwire Guarded Switches	Practice	0.83	87%	Practice	0.83	87%
Describe Data Busses	Lecture	0.42	100%	CBT 1	0.29	100%
Outline Fault Detection Procedures	Lecture	0.42	100%	CBT 1	0.29	100%
Interpret Technical Drawings	Lecture	1.67	85%	CBT 2	1.17	94%
Trace Signal Flow and Power	Practice	1.67	87%	Practice	1.67	87%
Interpret Aircraft Components Location Diagrams	Lecture	2.5	85%	CBT 2	1.75	94%
Conduct Walk Around and Safety Brief	Practice	0.83	88%	Practice	0.83	88%
Describe EWIS Troubleshooting Techniques	Lecture	0.83	85%	CBT 2	0.58	94%
Describe EWIS Inspection Techniques	Lecture	0.83	85%	CBT 2	0.58	94%
Describe EWIS Cleaning Techniques	Lecture	0.83	85%	CBT 2	0.58	94%
Describe Corrosion Preventive Compounds	Lecture	0.83	85%	CBT 2	0.58	94%
Apply Corrosion Preventive Compounds	Practice	2.5	87%	Practice	2.5	87%
Describe Electrical Power System Components	Lecture	0.42	100%	CBT 1	0.29	100%
Describe Electrical Power System Operations	Lecture	0.83	85%	CBT 2	0.58	94%
Describe Various Aircraft Electrical Power Systems	Lecture	0.42	100%	CBT 1	0.29	100%
Classify Electrical Loads	Lecture	0.83	100%	CBT 1	0.58	100%
Describe Electrical Power System Redundancy	Lecture	0.83	100%	CBT 1	0.58	100%
Describe DC Generators	Lecture	1.67	100%	CBT 1	1.17	100%
Analyze Aircraft AC Generator	Simulation	3.33	86%	Simulation	3.33	86%
Describe Auxiliary Power Units Types	Lecture	0.42	100%	CBT 1	0.29	100%
Apply Ground Power to Aircraft	Practice	1.67	88%	Practice	1.67	88%
Maintain Aircraft Battery System	Practice	4.17	87%	Practice	4.17	87%
Describe Aircraft Power Distribution System	Lecture	0.83	100%	CBT 1	0.58	100%
Describe Distribution System Architecture	Lecture	0.83	100%	CBT 1	0.58	100%
Monitor Load	Lecture	0.83	85%	CBT 2	0.58	94%
Operate Single Engine Aircraft	Simulation	2.5	86%	Simulation	2.5	86%
Operate Twin Engine Aircraft	Simulation	2.5	86%	Simulation	2.5	86%
Operate Multi-Engine Aircraft	Simulation	2.5	86%	Simulation	2.5	86%
Total		92.48			84.45	

* **Rating** indicates the % of instructional design requirements that the media meets. For example, if the media supports 9 out of the 10 instructional requirements that the analyst specified, it would have 90% rating. Media that does not meet a critical (or need to have requirement) is eliminated - i.e., would have 0% rating.