

# Publications and Training Solutions

## Course Syllabus: 523-0819419

**COURSE TITLE:** FalconCabin HD+  
Flight Line Maintenance

**PREREQUISITES:**

1. Familiarity with computers, DOS commands, and Windows XP Operating System.
2. Proficiency in speaking and reading simplified English.
3. Ability to read schematic diagrams.
4. Familiarity with avionics system testing and troubleshooting.
5. Laptop computer for maintenance/software loading.

**PURPOSE:**

This course provides line maintenance personnel with training on system components, concept of operation, and operation of the diagnostic tool.

**OBJECTIVES:** Upon completing this course, the student should be able to:

1. Identify FalconCabin HD<sup>+</sup> LRUs.
2. Identify optional FalconCabin HD<sup>+</sup> products (i.e. WAP, AMSU).
3. Understand system operation.
4. Perform a software conformity check using TST.
5. Perform a system continuity test.

**COURSE LENGTH:** 2 Days

**TRAINING DEVICES:**

Rack or Aircraft as available

**TRAINING MATERIALS:**

1. Power Point Presentation with Overhead projector
2. Handouts
3. Block Diagrams

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### **REFERENCES:**

1. Applications and Media Server Unit (AMSU) 523-0821027 44-20-99
2. Installation and Maintenance Manual 44-21-02
3. System Fault Isolation Manual (FIM) Test and Simulation Tool (TST) 44-21-03

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### COURSE OUTLINE

#### **0. Chapter 0 – Welcome & Introductions**

- A. Course Overview
  - i. Welcome
  - ii. Student Registration

#### **1. Chapter 1 – FalconCabin HD<sup>+</sup> Overview**

- A. Cabin Control
- B. Entertainment

#### **2. Chapter 2 – FalconCabin HD<sup>+</sup> system operation/components**

- A. Media Center Device (MCD)
- B. Cabin Management Module – Environmental Controller (2052)
- C. High Definition Audio Video Distributor (HDAV)
- D. Dual Blu-ray Player (BDP)
- E. Personal Switch (PSW)
- F. Touchscreen Controller (TC 6000)
- G. High Definition Monitor (LCD HD)
- H. High-definition Touchscreen Controllers (HTSE) and Galley Touchscreen Controllers (GTS)
- I. Large Area Monitor (LAM)
- J. Smart Remote Monitor Electronic Box (SRMEB)
- K. Electronic Control Module (ECM)
- L. AUX Jack Panels
- M. Switch Panels (A-Type, and Mini)
- N. Flight Deck Controller (FDC)
- O. Cabin Remote
- P. Tailwind 500
- Q. IR/RF Remote Controller (2033)

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- R. Wireless Access Point (WAP 3000, 4000)
- S. Applications and Media Server Unit (AMSU)
- T. Skybox

#### **3. Chapter 3 – Test and Simulation Tool (TST) use and system diagnostics**

- A. Maintenance Laptop setup
- B. Performing a continuity check using TST
- C. Performing system checks using TST
- D. Load system software using TST

#### **4. Chapter 4 – Closeout**

- A. Test
- B. Critiques

#### **EQUIPMENT TYPE:**

<b>EQUIPMENT</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
MCD-300X	Media Center Device	441-0008-xxx
CMM	Cabin Management Module (Environmental Controller)	2052-1-X
HDAV-3000 HDAV-3002	High Definition Audio Video Distributor	441-0007-100 441-0007-102
HDAV-6000 HDAV-6002	High Definition Audio Video Distributor	441-0102-100 441-0186-100
BDP	Dual Blu-Ray Disc Player	441-0089-100 (H) 441-0089-101 (V)
PSW	Programmable Switch	441-0010-XXX (RH) 441-0070-XXX (LH)
TC-6000	Touch Screen Controller (TC)	441-0174-XXX
10.6" HDM,	10.6-Inch High Definition Monitor Assembly	441-0005-XXX

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EQUIPMENT	NOMENCLATURE	PART NUMBER
PEM	Personal Entertainment Monitor	441-0165-100 441-0165-101
HTSE	High Definition Touch Screen Equipment	441-0165-102
GTS	Galley Touchscreen Switch Panel 10.6"	822-2647-XXX
LAM	Large Area Monitor	441-0116 (19") 441-0117 (22") 441-0133 (24")
ECM	Electronic Control Module	441-0038-100
RF/IR Controller	RF/IR Remote Controller	2033-1-1
Switch Panels	"A" type Switch Panel	2501-X-XXX
WAP 3000	Wireless Access Point (WAP 3000)	441-0140-100
WAP 4000	Wireless Access Point (WAP 4000)	73001002-002
MSW	Mini-Switch	441-0024-XXX
MSW	Mini-Switch	441-0025-XXX
MSW	Mini-Switch	441-0062-XXX
MSW	Mini-Switch	441-0063-XXX
FDC	Flight Deck Controller	922000-3
AMSU-5000	Application/Media Server Unit	441-1513-100
WAP	Wireless Access Point	73001000-002