

Publications and Training Solutions

Course Syllabus: 523-0821912

COURSE TITLE: Pro Line Fusion Avionics System for the King Air

PREREQUISITES:

1. Students should have a basic knowledge of aircraft avionics, King Air aircraft systems, and instrument flying procedures.
2. Students should be familiar with the Microsoft Windows® operating system.
3. Students should complete the Welcome to Rockwell Collins eLearning CBT.
4. Students should have a working knowledge of the English language.

PURPOSE:

This course provides pilot/operator with training to operate and perform normal and abnormal flight procedures.

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

1. Identify the function and operation of the King Air Pro Line Fusion components.
2. Demonstrate the use of the Pro Line Fusion controls.
3. Perform normal and abnormal operations using the Pro Line Fusion avionics system.
4. Perform instrument flight procedures using the Pro Line Fusion avionics system.

COURSE LENGTH: Approximately Five (5) Hours

REFERENCES:

1. Pro Line Fusion® for King Air Operator Guide 523-0820001

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COURSE OUTLINE

- 0. Introduction (Video)**
- 1. Overview (Familiarization)**
- 2. Touchscreen Interface (Video)**
- 3. Cursor Control Panel (Video)**
- 4. Multifunction Keyboard Panel (Video)**
- 5. Baro-Altitude Tilt Knobs (Video)**
- 6. Flight Guidance Panel (Video)**
- 7. Philosophy (Familiarization)**
- 8. PFD (Familiarization)**
- 9. MFD (Familiarization)**
- 10. Phase 3 Updates (Familiarization)**
- 11. USB Flight Plan Loading (Familiarization)**
- 12. Flight Planning (Video)**
- 13. Pre-Flight (Drill and Practice)**
- 14. Engine Start (Drill and Practice)**
- 15. Before Taxi (Drill and Practice)**
- 16. Taxi (Drill and Practice)**
- 17. Takeoff (Drill and Practice)**
- 18. Initial Climb (Drill and Practice)**
- 19. Cruise (Drill and Practice)**
- 20. Descent (Drill and Practice)**
- 21. Approach (Drill and Practice)**
- 22. Go Around/Missed Approach (Drill and Practice)**
- 23. Data Loading (Video)**
- 24. Options**

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- A. Aircraft Survivability Equipment (Familiarization)
- B. Direction Finder (Familiarization)
- C. Extended Frequency VHF (Familiarization)
- D. Externally Controlled Transponder (Familiarization)
- E. 3rd GNSS (Familiarization)
- F. MultiScan (Familiarization)
- G. RIU (Familiarization)
- H. S-AHRS (Familiarization)
- I. Special Mission CAS Messages (Familiarization)
- J. Stormscope (Familiarization)
- K. TACAN (Familiarization)

25. Tips and Tricks Videos

- A. Touchscreen Toolbar (Video)
- B. Map Features (Video)
- C. Map Rerouting (Video)
- D. Range to Altitude Arc (Video)
- E. SVS – Airport Dome (Video)
- F. Memory Keys (Video)

26. Survey

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EQUIPMENT TYPE:

EQUIPMENT	NOMENCLATURE	PART NUMBER
Flight Guidance System		
Flight Guidance Computer	FGC-3000	822-1108-147/-131/-132
Flight Guidance Panel	FGP-3000	822-1107-103
Servo	SVO-3000	822-1168-001/ -002/-003
VHF Communication System		
VHF Comm Transceiver	VHF-4000	822-1468-110 822-1468-310 (datalink)
Communications Management Unit	CMU-4000	822-1739-003
External Compensation Unit	ECU-3000	822-1200-997
HF Communication System		
HF Transceiver	HF-9031A	822-0101-002
HF Antenna Coupler	HF-9041	622-8114-002
Integrated Avionics Processor System		
External Compensation Unit	ECU-3000	822-1200-997
Integrated Card Cage	ICC-3000	822-1129-001
Input/Output Concentrator	IOC-3100	822-1361-620
Configuration Strapping Unit	CSU-3100	822-1363-0002
Option Control Module	OCM-3100	822-1484-200
Data Concentrator System		
Data Concentrator Unit	DCU-3001	822-1483-102

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Remote Data Concentrator	RDC-4002	822-1533-301
Electronic Flight Instrument System		
Adaptive Flight Display	AFD-3700	822-3065-001
Cursor Control Panel	CCP-3500	822-2754-010
Multifunction Keypad Panel	MKP-3500	822-2568-010
Baro Single Knob Panel	SKP-3500	822-3163-010
Aircraft Personality Module	APM-5000	822-2195-001
Software: Adaptive Flight Display Runtime	AFDR-3700	810-0346-001
Software: Emulated Control Display Unit	ECDA-6000	810-0223-100
Software: Flight Display System Application	FDSA-6500	810-0234-1H0001
Software: Radio Tuning System Application	RTSA-6000	810-0048-701
Software: Airframe Parameter Configuration Table	APCT-3700	810-0422-001
Air Data System		
Air Data Computer	ADC-3010	822-2083-002 822-1109-026/-027
Aircraft Configuration Table	ACT-3010	810-0044-009
Attitude Heading Reference System		
Attitude Heading Computer	AHC-3000	822-1110-002
Flux Detector Unit	FDU-3000	822-1193-001
External Compensation Unit	ECU-3000	822-1200-002

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Synthetic Vision System		
Software: Advanced Terrain Functions	ATF-3500	810-0348-001
Software: Advanced Terrain Functions Table	ATFT-3500	810-0385-1H0001
Weather Radar System		
Tilt Single Knob Panel	SKP-3500	822-3163-020
Weather Radar Receiver/Transmitter antenna	RTA-800 (C90GT) RTA-852	822-1050-004 622-8439-004
Radio Altimeter System		
Radio Altimeter	ALT-4000	822-0615-206
Traffic Alert And Collision Avoidance System II		
TCAS Receiver/Transmitter	TTR-4100	822-3075-001
TCAS Directional Antenna	TRE-920	622-8973-001
Global Positioning Satellite System		
Global Positioning System, SBAS Capable	GPS-4000S	822-2189-010
VHF Navigation System		
VOR/ILS/MB/ADF Receiver	NAV-4000	822-1465-001
VOR/ILS/MB Receiver	NAV-4500	822-1579-001
Single ADF Antenna	ANT-462A	622-7383-001
Distance Measuring Equipment		
DME Transceiver	DME-4000	822-1466-001
Air Traffic Control Transponder System		

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EQUIPMENT	NOMENCLATURE	PART NUMBER
Diversity Transponder	TDR-94D	622-9210-310/-501
Flight Management System		
Software: Flight Management System Application	FMSA-6010	810-0163-1H0001
Software: FMS Search and Rescue Key	SARK-3500	810-0387-001
Video Surveillance System		
Software: Video Key	VID-3500	810-0392-001
Onboard Maintenance System		
Software: Onboard Maintenance System Application	OMSA-6000	810-0106-250
Software: Onboard Maintenance System Table	OMST-6000	810-0099-1H0001
Software: Onboard Data Loader Application	ODLA-3500	810-0345-1H0001
Integrated Flight Information System		
Software: File Server Application	FSA-6000	810-0072-302
Software: Data Link Weather Key	DLWX-3500	810-0353-001
Software: Electronic Charts Key	ECH-3500	810-0361-001
Software: Enhanced Map Overlays Key	OVL-3500	810-0360-001
Software: Outboard IFIS Key	FSAX-3500	810-0354-001
Software: Chart Extension Key	CHTX-3500	810-0476-001
XM Weather		

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EQUIPMENT	NOMENCLATURE	PART NUMBER
XM Weather Receiver	XMWR-1000	822-2031-003
Software: XM Weather Key	XMWK-3500	810-0355-001
Information Management System		
Information Management System	IMS-3500	822-299-101
Software: Information Management System Applications	IMSA-3500E	810-0414-001
Software: Information Management System Operating System	IMSOS-3500E	810-0415-001
Engine Indication And Crew Alert System		
Software: EICAS Application	EICAS-6000	810-0245-1H0001