



Rockwell Collins Services Training and Information Solutions Course Syllabus: 523-0810198

COURSE TITLE: Pro Line 21 King Air
Pilot (Level I Operator) Course

AUDIENCE: Students should be experienced instrument pilots transitioning from “conventional” cockpits to those of the King Air with Rockwell Collins, Inc. Pro Line 21 Integrated Avionics System installed.

PURPOSE: This course provides training to familiarize pilots with the functionality of the Pro Line 21 Integrated Avionics System.

OBJECTIVE: Upon completing this course, the student will be able to:

1. Identify Pro Line 21 Instrumentation.
2. Comprehend how Pro Line 21 components function in unison to provide the pilot flight information.
3. Perform the steps to:
 - a. Power up the FMS
 - b. Build a Flight Plan
 - c. Save and Load a Flight Plan
 - d. Enter Performance Data
 - e. Conduct Enroute Procedures
 - f. Execute a Missed Approach Procedure

COURSE LENGTH: Approximately 5 Hrs (Course length will vary from individual to individual, depending on the experience level of the participant and the Pre/Post Testing options that are selected.)

REFERENCES:

1. Pro Line 21 King Air Operators Guide 523-0790065

PRO LINE 21 KING AIR COURSE OUTLINE

I. Introduction

- A. Welcome to Rockwell Collins e-Learning

II. Primary Flight Display (PFD)

- A. PFD Video Overview
- B. PFD Familiarization
 1. Primary Flight Display
 2. Reversionary Control Switches
 3. Display Control Panel

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III. Multifunction Display (MFD)

- A. MFD Video Overview
- B. MFD Familiarization
 - 4. Multifunction Display
 - 5. Display Control Panel
- C. CDU/MFD Operation

IV. Flight Guidance Panel

- A. Flight Guidance Panel (FGP)
- B. Flight Control Switches

V. Integrated Flight Information System (IFIS)

- A. IFIS Familiarization
 - 1. Electronic Charts
 - 2. Enhanced Map Features
 - 3. Graphical Weather Formats

VI. Radio Sensor System

- A. RSS Video
- B. RSS Familiarization
 - 1. Radio Tuning Unit (RTU)
 - 2. Control Display Unit (CDU)

VII. Weather Radar (WXR)

- A. WXR Familiarization
 - 1. Weather Radar Features
 - 2. Weather Radar Formats

VIII. Control Display Unit (CDU)/ Flight Management System (FMS)

- A. FMS Video Overview
- B. FMS CDU Familiarization
 - 1. Description
 - 2. Operation
 - 3. Theory of Operation
- C. Preflight Video
- D. System Startup
 - 1. Replace an Active Navigation Database with a Standby Database
 - 2. Load a New Navigation Database
 - 3. Synchronize a Newly Added Flight Plan
 - 4. Initialize the FMS to a Current Position
 - 5. Initialize the FMS to an Airport Code
 - 6. Delete a Flight Plan

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- E. Build a Flight Plan
 - 1. Enter an Origin Airport
 - 2. Enter a Destination Airport
 - 3. Enter an Alternate Airport
 - 4. Enter a Waypoint
 - 5. Enter an Airway
 - 6. Delete a Flight Plan Discontinuity
 - 7. Repair a Flight Plan Discontinuity
 - 8. Delete a Flight Plan Waypoint
 - 9. Delete an Airway
 - 10. Enter a Departure Runway
 - 11. Enter a SID
 - 12. Enter a Destination Approach and Transition
 - 13. Adjust the Auto Sequence
 - 14. Erase a Flight Plan
- F. Vertical Navigation Video
- G. Approach Video
- H. Save and Load
 - 1. Save a Flight Plan to a Pilot Route List
 - 2. Customize a Pilot Route Name
 - 3. Save the Flight Plan to a Disk
 - 4. Copy the Active Flight Plan to the Secondary Flight Plan
 - 5. Activate a Second Flight Plan
- I. Performance Data
 - 1. Enter the Cruise Altitude
 - 2. Enter the Passenger Weight
 - 3. Enter the Cargo Weight
 - 4. Change the Sensed Fuel Value
- J. Enroute
 - 1. Delete a Flight Plan Discontinuity
 - 2. Enter a Hold
 - 3. Modify a Hold
 - 4. Insert a Direct-TO waypoint
 - 5. Insert a Radial Intercept from a Heading Leg
 - 6. Insert a Radial and Distance Waypoint
 - 7. Insert an Off Airway Waypoint
- K. Missed Approach
 - 1. View a Missed Approach
 - 2. Sequence to a Missed Approach
 - 3. Sequence to the Alternate Flight Plan



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IX. Messages and Annunciations

- A. Engine Indicating System
- B. System Messages and Annunciations
- C. Display Reversion

X. Flight Scenarios

- A. Build a Flight Plan
- B. Flight Plan Reroute
- C. Predicted Flight Plan
- D. Missed Approach

XI. Summary