



Rockwell Collins Services Training and Information Solutions Course Syllabus: 523-0809379

COURSE TITLE: **Pro Line 21 Hawker 800XP with IFIS**
Pilot (Level I Operator) Course

AUDIENCE: Students should be experienced instrument pilots transitioning from “conventional” cockpits to those of the Hawker 800XP 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: 5 Hours

REFERENCES:

1. Pro Line 21 Hawker 800XP Operators Guide 523-0780409

PRO LINE 21 HAWKER 800XP WITH IFIS COURSE OUTLINE

I. Introduction

- A. Welcome to Rockwell Collins e-Learning

II. Primary Flight Display (PFD)

- A. PFD Familiarization
 1. Primary Flight Display
 2. Control Switches
 3. Display Control Panel
- B. Nav Bearing
 1. Select a Navigation Source
 2. Select a Bearing Source

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III. Multifunction Display (MFD)

- B. MFD Familiarization
 - 1. Description
 - 2. Operation
 - 3. Theory of Operation
 - a. Multifunction Display
 - b. Display Control Panel

IV. Integrated Flight Information System (IFIS)

- A. Familiarization
 - 1. Description
 - 2. Operation
 - 3. Theory of Operation
 - a. File Server Unit (FSU)
 - b. Cursor Control Panel (CCP)
 - c. Multifunction Display formats
 - d. Enhanced Map Formats
 - e. XM Weather (GWX-3000) Formats

V. Radio Sensor System

- A. Familiarization
 - 1. Description
 - 2. Operation
 - 3. Theory of Operations
 - a. Control Display Unit Tune Page
 - b. CTL-23D
 - c. Reversionary Control Switches

VI. Weather Radar (WXR)

- A. Familiarization
 - 1. Description
 - 2. Operation
 - 3. Theory of Operation
- B. Weather Radar
 - 1. Initiate Weather Radar Mode
 - 2. Set Receiver Gain
 - 3. Turn Off Sector Scan
 - 4. Initiate Antenna Stabilization
 - 5. Turn Off Target Mode
- C. Range Tilt
 - 1. Change the Display Map Range
 - 2. Change the Weather Radar Tilt
 - 3. Enable the Weather Radar Autotilt

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

- A. Video Overview
- B. Familiarization
 - 1. Description
 - 2. Operation
 - 3. Theory of Operation
- C. Preflight
- D. Power Up Procedures
 - 1. CDU Power Up Page
 - 2. Check for a Current NAV Database
 - 3. Swap the Current and Second NAV Database
 - 4. Synchronize FMS1 and FMS2
 - 5. Initialize the FMS Position
- E. Build a Flight Plan 1
 - 1. Enter the Departure Airport
 - 2. Enter the Destination Airport
 - 3. Enter an Alternate Airport
- F. Build a Flight Plan 2
 - 1. Enter a Waypoint
 - 2. Enter an Airway
 - 3. Delete a Flight Plan Discontinuity
 - 4. Enter a Delete Command
- G. Build a Flight Plan 3
 - 1. Enter a Departure Runway
 - 2. Enter the Standard Instrument Departure (SID)
 - 3. Enter the Destination Approach & Transition
 - 4. View the Flight Plan on the Plan Map
 - 5. View (other) Airport Data
- H. Vertical Nav
- I. Approach
- J. Save & Load Procedures
 - 1. Save the Flight Plan to a Pilot Route List
 - 2. Copy the Active Flight Plan to the Second Flight Plan
 - 3. Activate the Second Flight Plan
- K. Performance Data
 - 1. Enter the cruise altitude
 - 2. Enter the passenger weight
 - 3. Enter the cargo weight
 - 4. Check the total fuel onboard
 - 5. Check the performance mode

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- L. Enroute Procedures 1
 - 1. View the Legs Page
 - 2. Delete a Flight Plan Discontinuity
 - 3. Enter a Hold
 - 4. Modify a Hold
- M. Enroute procedures 2
 - 1. Insert a Direct-TO Waypoint
 - 2. Insert a Radial Intercept From a Heading Leg
 - 3. Insert a Radial & Distance Waypoint
 - 4. Insert an Off Airway Waypoint
- N. Missed Approach
 - 1. View the Missed Approach
 - 2. Sequence to the Missed Approach
 - 3. Sequence to the Alternate

VIII. Summary