Rockwell Collins

Publications and Training Solutions
Course Syllabus: 523-0808822

COURSE TITLE: Flight Management System (FMS-3000)
Operator/Pilot Training

PREREQUISITES:

Students should have basic knowledge of aircraft avionics systems and a working command of the English language.

PURPOSE:

This course provides training to familiarize pilots with the functionality of the Flight Management System (FMS-3000).

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

1. Provide an overall understanding of the FMS-3000 principles and operations.
2. Identify system components and functional/operational characteristics.
3. Identify typical aircraft system interface/architecture.

COURSE LENGTH: 2 Hours

REFERENCES:

1. FMS-3000 for the Beechcraft King Air
   C90GT/C90GTi/B200/B200C/B200GT/B200CGT/B300   523-0790066
2. Applicable Service Bulletins (SB) and Service Information Letters (SIL)

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COURSE OUTLINE

0. Welcome & Introductions

    A. Welcome to Rockwell Collins Training

1. FMS Configuration Information

2. FMS Theory of Operation

    A. Key Elements

    B. Operations Features

    C. Data Entry

    D. Settings

3. Power Up

    A. CDU Power Up Page

    B. Checking for a Current NAV Database

    C. Swapping the Current and Second NAV Database

    D. Loading a new set of NAV Databases

    E. Synchronizing FMS1 and FMS2

    F. Initializing the FMS Position

    G. Clearing the Message Data Line

    H. Deleting the Current Active Flight Plan

4. Guided Practice

    A. Flight Plan 1

        i. Entering the Departure Airport

        ii. Entering the Destination Airport

        iii. Entering an Alternate Airport

    B. Flight Plan 2

        i. Entering a Waypoint

        ii. Entering an Airway

   iii. Deleting a Flight Plan Discontinuity

   iv. Entering a Delete Command

  C. Flight Plan 3

   i. Entering the Departure Runway

   ii. Entering the Standard Instrument Departure (SID)

   iii. Entering the Destination Approach & Transition

   iv. Viewing the Flight Plan on Plan Map

   v. Viewing other Airport Data

5. **Save and Load**

  A. Save the Flight Plan to a Pilot Route List

  B. Save the Flight Plan to a Disk

  C. Copy the Active Flight Plan to the Second Flight Plan

  D. Activate the second Flight Plan

6. **Performance Data**

  A. Enter the Cruise Altitude

  B. Enter the Passenger Weight

  C. Check Total Fuel Onboard

  D. Check the Performance Mode

7. **Guided Practice**

  A. Enroute 1

   i. Viewing the LEGS Page

   ii. Deleting a Flight Plan Discontinuity

   iii. Entering a Hold

   iv. Modifying a Hold

  B. Enroute 2

   i. Inserting a Direct-To Waypoint

        ii.   Inserting a Radial Intercept from a Heading Leg

       iii.   Inserting a Radial & Distance Waypoint

       iv.   Inserting an Off Airway Waypoint

8. Missed Approach

    A. View the Missed Approach

    B. Sequence to the Missed Approach

    C. Sequence to the Alternate

    D. Delete the Current Active Flight Plan

9. Summary

EQUIPMENT TYPE:

EQUIPMENT	NOMENCLATURE	PART NUMBER
Control Display Unit	CDU-3000	822-0884-161
Data Base Unit	DBU-4100	822-0014-104
Flight Management Computer	FMC-3000	822-0883-005
Global Positioning System Receiver	GPS-4000A	822-1377-001
Collins Portable Access Software	CPAS-3000	810-0032-001/-002/-003