



A320 TYPE RATING COURSE - Additional pre-course study material

The pre-course study pack contains the following items:

- Updated database files for FMGS software
- Flight plans for FMGS training sessions "FMGS01", "FMGS02", "FMGS03", "FMGS04"
- Additional flight plan for pre-course FMGS practice: "FMGS0"
- Standard Operating Procedures PowerPoint presentation CST.ppsx
- A-320 Normal Checklist - "A320_CHECKLIST"
- FMGS Programming Guide - "FMGS PRE-FLIGHT PROGRAMMING"
- Pre-Flight Briefing Guide - "FMGS BRIEFING GUIDE"
- Pilot's Pre-Flight Briefing Checklist - "BRIEFING"

CHECKLIST - INSTRUCTIONS

Unzip the contents of the STUDENT_HANDOUTS directory to the hard drive eg. C:\STUDENT_HANDOUTS. This will create two sub-directories:

- FMGS FILES – contains the updated FMGS database files
- FMGS – contains 5 flight plans

FMGS FILES

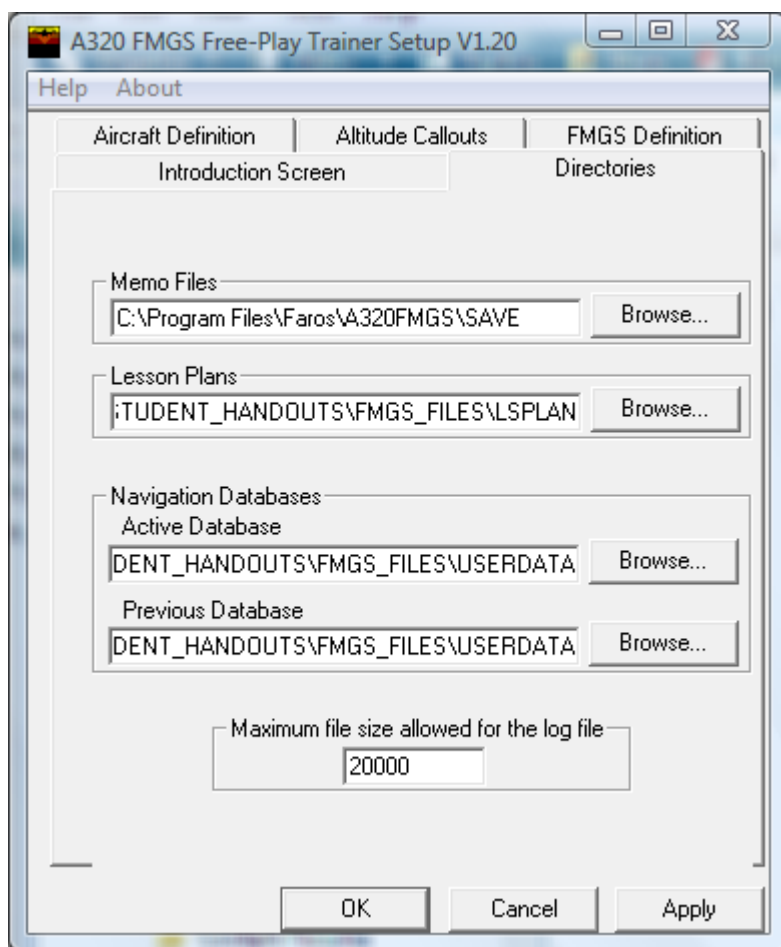
The new database contains updated airport, runway and procedure data for London Gatwick (EGKK), Birmingham (EGBB), East Midlands (EGNX), Manchester (EGCC), Glasgow (EGPF) and Dublin (EIDW). Students should configure the A320 FMGS program to refer to the directory containing the new data.

After unzipping, the updated database files will be found in the following directory:
C:\STUDENT_HANDOUTS\FMGS_FILES\USERDATA

From the Windows Start Menu, run the "Configure A320 FMGS" program and click the "Directories" tab. Both the Active Database and Previous Database fields should be changed to point at the full path for the updated files, e.g.:

C:\STUDENT_HANDOUTS\FMGS_FILES\USERDATA

The Browse button can be used to locate the new directory.



FLIGHT PLANS

During ground school, there are four FMGS exercises involving flights between EGKK, EGCC, EGNX, EGPF and EIDW. The details for these flights are contained in 4 text files “FMGS01.txt” to “FMGS04.txt” which will be found in the following directory:

C:\STUDENT_HANDOUTS\FMGS

An additional exercise is provided (“FMGS00.txt”) to enable pilots to practice FMGS programming prior to the commencement of ground school. See below.

COCKPIT SYSTEMS TRAINING

FCOM 3.03 contains Standard Operating Procedures for the A320. To help new A320 pilots assimilate these procedures efficiently and to ensure that the information is accurately retained in long-term memory, the contents of FCOM 3.03 have been reproduced in a PowerPoint presentation, “CST.ppsx”.



Students should study this presentation before ground school in preparation for the CST and FMGS exercises, and the Flight Simulator sessions which follow. A Normal Checklist, to be used in conjunction with SOPs, is provided in the file "A320_CHECKLIST".

FMGS PRE-FLIGHT PROGRAMMING

According to Airbus SOPs, the Pilot Flying (PF) performs the Cockpit Preparation (see FCOM 3.03.06). After the Pedestal scan, the PF programs the FMGS in preparation for flight – page 9. The standard method of pre-flight programming is described by the guide contained in the file "FMGS PRE-FLIGHT PROGRAMMING". This method follows the acronym DIFRSIPP where each letter refers to a MCDU Page Key. The example shown in this guide is a flight from EGKK to EGPF, the details for which are given by the text file "FMGS00.txt" Students should practice loading the FMGS with this flight plan, using the standard method and aim to be proficient at this task by the start of the ground school course.

BRIEFING

After programming the FMGS, the Pilot Flying (PF) briefs the Pilot Not Flying (PNF). The standard Departure Briefing is described in the Flight Crew Training Manual (FCTM) at NO-020 page 18-20. A standard Approach Briefing is given at NO-070 page 12-14. The reverse side of the Normal Checklist provides an abbreviated guide for both briefings and will be used during CST, FSMO and FFS training sessions. The FMGS page sequence for departure and approach briefings is as follows:

<u>Departure</u>	<u>Approach</u>
STATUS	F-PLN
INIT B	RADNAV
PERF TO	PROG
F-PLN	PERF APPR
RADNAV	FUEL PRED
SEC F-PLN	SEC F-PLN

A full standard Departure Briefing has been provided for the practice flight, EGKK-EGPF ("FMGS00.txt") which will be found in the file "FMGS_BRIEFING_GUIDE". This style of briefing is usually referred to as "briefing from the glass." The PF pushes the MCDU page keys in the sequence shown on the left hand side of the checklist and briefs the items in the order shown on the right.

We look forward to meeting you on Day 1 of your Ground School Course.

Captain Doug Boynton
CFI Chief Flying Instructor