



Course Level

Aviation Expert

ARINC 424 Database Coding

Duration	5 days		
Tuition Fee	CHF 3000 per participant		
Instructors	Martin Zillig	Jim Terpstra	Christian Freiesleben
Certificate	ANI Certificate		

Questions at a glance	Answer
ICAO recognised?	No, there is no such thing as an ICAO recognition for training. ANI is a State-approved training provider and complies with all ICAO training regulations.
Pre-requisites?	Yes. Please see below for details.
Does ANI provide accommodation?	No. Please check the hotel list provided in the location documentation.
Daily schedule?	9.00 - 16.00 or as communicated by the instructor
Weekly schedule	Monday morning to Friday afternoon
Venue?	Please check the information in the course calendar.
Mobile Phones?	Absolutely and strictly forbidden in the class!

1. ANI Aviation Expert Courses

The ANI Aviation Expert training courses cover topics that are related to the jobs „Flight Procedure Designer“ and „Flight Validation Pilot“. These are courses that will add to the skill set of any interested expert in aviation, no matter what field of expertise the expert is coming from.

2. Course Description

Important: This is not a course that trains database coders for level 1 data houses. This course is aimed at the flight procedure design or Flight Validation community to understand specifics of database coding, limitations and eventual issues with avionics when code is „packed“ into the systems. A typical rundown of such a course is shown in paragraph 3. It must be stressed that the information provided and the rundown will vary depending on the instructor. Each instructor has his personal way to convey the information, the end result for the participant will be the same: a more profound understanding of ARINC 424 database coding and issues when instrument flight procedures are coded.

3. Course Rundown

Note that not all ANI instructors provide exactly the same course rundown. The example below is a version delivered by Christian. Always covered are Path/Terminators and their use, possible leg type sequences, hands-on SID and Approach coding exercises, FMS packing issues.

	Monday	Tuesday	Wednesday	Thursday	Friday
9.00 - 10.00		General APCH to ARINC 424	Introduction to FMS Manufacturers and Technical issues	APCH coding: ILS and LLZ based	Practice: Coding of RNAV (RNP) APCH incl. RF legs
(Monday 10.00) 10.15 - 11.15	Welcome & Introduction	Introduction to ARINC 424 (Presentation)	ARINC 424 criteria: PT combinations, WPT naming, Route Types	APCH coding: VOR, VOR/DME, NDB, NDB/DME, RNAV, RNAV (GPS), RNP	cont'd Practice: Coding of RNAV APCH incl. RF legs
11.30 - 12.30	Aeronautical Data Chain	continued: ARINC 424 introduction (Section & Subsection)	SID coding: requirements and limitations	Limitations: Technical, Procedures that can't be coded, Conditional clearances, etc.	Review: New Zealand PANS-OPS vs. ARINC 424 coding
Lunch Break					
14.00 - 15.00	Introduction to DO200B / ED-76A	ARINC 424 Path / Termination concept	STAR coding: requirements and limitations	Practice: ARINC 424 coding for SID / STAR / APCH (NZ Example)	Final Exam: ARINC 424 translation
15.15 - 16.15	Data collection & Integrity Checks	continued: ARINC 424 Path / Termination concept	Introduction: APCH coding (incl. APCH transitions and MISAP) requirements	Practice: ARINC 424 coding for SID / STAR / APCH (NZ Example)	Plenary debriefing / End of the course
16.30 - 17.00	Review of the day / questions	Review of the day / questions	Review of the day / questions	Review of the day / questions	