



# Aeropath

Aeronautical information  
& flight procedures



# Experts in AIM and Flight Procedures

Aeropath is Airways New Zealand's specialist provider of Instrument Flight Procedures and Aeronautical Information Management (AIM) services.

Our clients are based all over the world and span the full range of aviation operations, including commercial airlines, air traffic control, airports, helicopters, general aviation, UAV operators and state regulators. Our work includes Performance Based Navigation (PBN) procedures development and maintenance, PANS-OPS training, digital aeronautical data management and charting, and development of cloud hosted solutions to support the AIS to AIM transition.

We help our aviation clients to achieve success through our experience, team expertise and breadth of products and services.



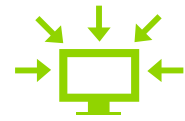
Performance Based Navigation



ICAO PANS-OPS training



AIS to AIM transition



Data integration and visualisation

## Instrument Flight Procedure design

Aeropath has broad experience and expertise in Instrument Flight Procedure design — working with State regulators, ANSPs, airlines and airport authorities to design, verify and maintain flight procedures. We operate in a variety of regulatory environments, and the terrain we encounter is varied and challenging.

### ICAO aligned services

We have received ICAO recognition for PBN and conventional procedures, and our practices are aligned with the latest ICAO Standard and Recommended Practices (SARPs). Aeropath's New Zealand Part 173 certification to design flight procedures is recognised in multiple jurisdictions, and we are a contributing member of the ICAO Instrument Flight Procedures Panel (IFPP).

### Performance Based Navigation

Performance Based Navigation (PBN) helps the global aviation community reduce aviation congestion, conserve fuel, protect the environment, reduce the impact of aircraft noise and maintain reliable, all-weather operations, even at the most challenging airports. It provides operators with greater flexibility and better operating returns while increasing the safety of regional and national airspace systems.

Aeropath works with air traffic management partners to introduce flight procedures into some of the most challenging airspace in the world, including multi-runway environments.

4,500+ 

Instrument Flight Procedures designed

15+ 

PANS-OPS training for ANSPs & airlines

80,000+ 

Nautical miles of flight routes managed

11,000+ 

Aeronautical data elements managed

# Instrument Flight Procedures training

Aeropath offers a full range of instructor-led Instrument Flight Procedures training to help ANSPs and aviation organisations further develop their procedure design capability.

Courses can be customised to match your learning needs, and cover the following initial and recurrent training:

## ► PANS-OPS General Criteria and Conventional Procedure Design

The foundational course in our procedure design training pathway, based on ICAO Doc 8168 Volume II (PANS-OPS) for safe instrument flight operations.

## ► PANS-OPS Performance Based Navigation Procedure Design

Introduces the principles of PBN flight procedure design based on the Global Navigation Satellite System (GNSS) and BARO-VNAV criteria.

## ► ICAO Doc 9905 RNP-AR Procedures

Focuses on advanced approach procedures with vertical guidance, including Required Navigation Performance Authorisation Required (RNP AR) and a revisit of BARO-VNAV design criteria.

## ► Helicopter Point in Space Procedures

A specialised course focused on PBN approach procedures designed exclusively for helicopters.

## ► PANS-OPS Procedure Design Update

Covers new amendments to PANS-OPS and future developments, and assesses the impacts and associated risks on existing flight procedures or the implementation of new ones.

## ► ICAO Annex 14 Obstacle Assessment and Management

Provides airport operators or obstacle control personnel the necessary skills to evaluate aerodrome obstacles from a practical perspective.

## ► ARINC 424 Procedure Coding

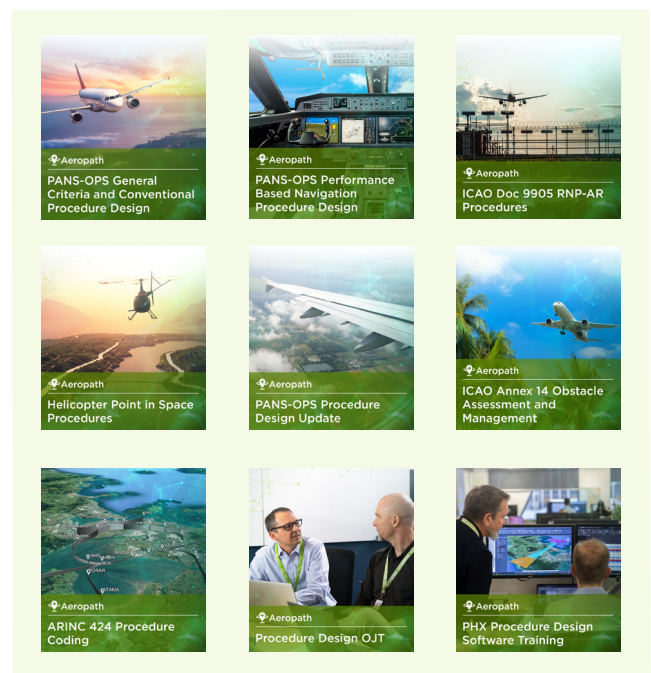
Introduces the principles of coding instrument flight procedures using the ARINC 424 Navigation System Database Standard.

## ► Procedure Design On-Job Training

We have developed an OJT programme for each of our training modules – these can be tailored to meet customer requirements.

## ► PHX Procedure Design Software training

A PHX software fundamentals ICAO programme, to enable proficient ongoing use of PHX in day-to-day design tasks.



Talk to us about Instrument Flight Procedure design services and training

✉ [international@airways.co.nz](mailto:international@airways.co.nz)

# AIM services

Aeropath has in-depth experience in all aspects of Aeronautical Information Management (AIM). Our New Zealand Civil Aviation Rules Part 175 certification to provide AIM services is recognised in multiple jurisdictions.

## Aeronautical data

We have world-class expertise in aeronautical data and database systems. Data is at the core of what we do and provides the substance from which all other AIM products are generated.

## AIP production

Aeropath produces the AIP for New Zealand and several Pacific states. Managing ICAO standards along with the demands of originators and state-based differences can be challenging; Aeropath has the specialised tools, quality assurance expertise and multi-state experience to make AIP management seamless.

## Aeronautical charting

Innovators in the fields of aeronautical GIS, Aeropath is developing next generation solutions to enable aviation charts to become more dynamic, tailored to specific uses and fit-for-purpose – whether used on paper, desktop, tablet or cockpit FMS.

## Dynamic mapping tools

Aeropath has developed two dynamic mapping solutions for use by pilots operating in New Zealand airspace.

### ► Flight Advisor

Flight Advisor is an interactive web-based mapping tool developed by Aeropath in collaboration with the Royal New Zealand Air Force, that improves situational awareness and enhances safety for military and civilian pilots operating at low levels in uncontrolled airspace.

### ► PreFlight

PreFlight enables commercial and recreational pilots to access safety-critical weather and aeronautical information on one easy-to-use platform, via their mobile device – a one-stop platform developed by Aeropath and MetService.

**Talk to us today**

[international@airways.co.nz](mailto:international@airways.co.nz)  
[www.airwaysinternational.com](http://www.airwaysinternational.com)