



Supporting the ATM
industry to thrive



AIRWAYS

Airways is a world-leading provider of commercial air navigation services and is responsible for managing all domestic and international air traffic operating within New Zealand's 30 million square kilometres of airspace. Around 6% of the world's airspace is managed by Airways.



We've provided air navigation services in **more than 65 countries**



25+ years of air traffic services training



4500+ Instrument flight procedures designed



65+ TotalControl simulators delivered



1000+ international ATC students trained



60+ AKO virtual courses delivered



Airways International is the commercial arm of Airways New Zealand – providing training, digital solutions, aeronautical information management, procedure design and aviation consultancy services globally to air navigation service providers (ANSPs), airlines and airports.

We offer globally recognised air traffic control (ATC) training programmes, advanced simulation and selection solutions, and interactive learning resources to help our customers achieve lower training costs and higher success rates.

We also partner with airports, governments, aviation technology suppliers and other ANSPs to develop future-ready innovative procedures and air traffic management (ATM) solutions, through leading-edge thinking, nimble execution and strong collaboration.

 **Airways Training**
Courses, programmes, partnerships

 **AKO**
Airways Knowledge Online

 **AirBooks**
Interactive digital learning

 **OnTrac**
ATC validation to assessment

 **TotalControl**
ATC simulation

 **SureSelect**
ATC selection

 **Aeropath**
Aeronautical information & flight procedures

 **AirShare**
Uncrewed traffic management

Global partnerships

Airways International partners with some of our industry's leading aviation experts to deliver projects and services that improve the quality of ATC training, reduce congestion and environmental impacts, and create efficiencies for our customers.

MITRE



We have partnered with not-for-profit U.S. based organisation MITRE to carry out several complex airspace design projects, where we will jointly deliver efficient and safe airport operations in some of the world's busiest and most complicated airspace.

Sagentia Aviation



We are collaborating with Sagentia Aviation (formerly Osprey CSL), a UK based science and technology business, working together on airspace and flight procedure design projects and opportunities across Europe.

Airservices Australia



We're working in strategic partnership with Airservices Australia, collaborating on air traffic control training, simulation and selection initiatives that help to accelerate the pipeline of new controllers, create cost and rostering efficiencies, and enhance training and selection capabilities.

Leidos

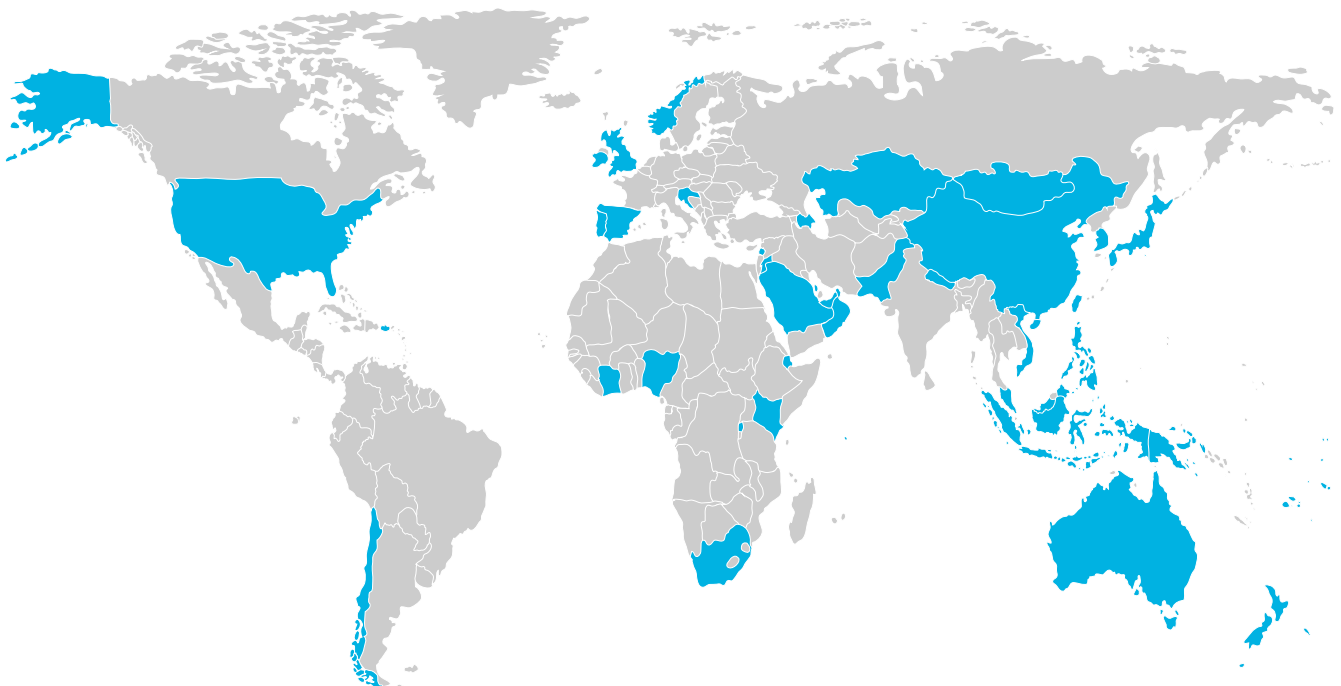


Airways International is collaborating with aviation technology provider Leidos on commercial projects and opportunities to create air traffic management opportunities.

This includes the design and build of the SkyLine-X air traffic management system, a \$58 million system that has replaced Airways' previous ATM platforms.

Where we work

Airways International's customer reach spans 65 countries across the globe.



Who we've worked with

Here we highlight some of the organisations Airways International has worked with to deliver our range of products and services over the past 30 years.



UK Government



Australian Government
Civil Aviation Safety Authority



We have been training our own air traffic controllers at Airways since 1950, and have worked with other international ANSPs for over 30 years in the delivery of training and consultancy services.

With customers in the Middle East, Asia, the Pacific, Europe and North America, Airways Training provides the highest quality of training services, courseware, instructors and student support.



Airways Training is one of the best ATC training centres in the world. It has the finest equipment and facilities and we were also astounded by how friendly and supportive Airways instructors and support staff are.

Vu Quang Huy
VATM ATC Trainee



World-class training to meet your needs

As air traffic services training experts, Airways Training achieves some of the highest success rates in the industry. With highly skilled and experienced instructors, leading-edge training and simulation technologies, a fully equipped campus and facilities, and internationally recognised programmes, Airways Training will make a real difference to your business.

Our advanced digital learning technologies enhance learning for today's generation of students, including highly realistic ATC simulation and interactive e-learning resources with dynamic content.

Employers can also access validated ATC selection tools, and useful data insights, including analytics to track progress and streamline selection and training.

Campus and facilities

The Airways Training campus is located in Christchurch, New Zealand, with computer suites, aviation libraries, classrooms, a dedicated student crewroom, and state-of-the-art simulators. Alternatively we can use our advanced digital tools and technologies to bring our training to you - in your country or the location of your choice.

Our TotalControl simulators are used to support course delivery for both surveillance and tower exercises. Staff to student ratios are very low at 1:6 for simulator courses.

Online course resources are available 24/7 via Airways Knowledge Online (AKO), and we also provide pastoral care services to ensure that students are looked after in and out of the classroom.



25+ years

of competency based training



95%

training success rate



1000+

international ATC students trained

Ab initio Air Traffic Services training

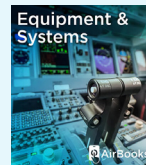
Airways Training offers a full range of International Civil Aviation Organization (ICAO) compliant air traffic services courses for ab initio students. Our courses are presented by highly experienced instructors via a combination of interactive training sessions, simulator exercises and blended learning activities. These are enhanced through the use of case studies, discussions and practical application.

► 051 ATS Licensing Subjects

A comprehensive introduction to ATS, this theoretical course forms the essential base knowledge for all other ATC courses. This course can be offered virtually via AKO AirBooks, or face-to-face.

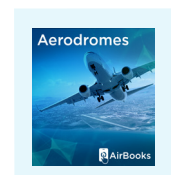


051 AirBooks



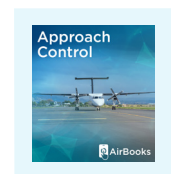
► 052 Aerodrome Control*

Students learn to integrate and apply the necessary knowledge, skills and competencies to operate in a simulated aerodrome environment.



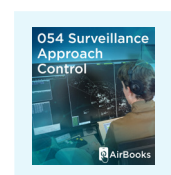
► 053 Approach Control Procedural or 055 Area Control Procedural*

Students are trained to manage traffic in accordance with operational rules and procedures to operate in a simulated procedural approach or procedural area environment.



► 054 Area or Approach Control Surveillance*

Surveillance students will demonstrate and apply the provision of an area or approach control surveillance service to operate in a simulated surveillance environment.



*These courses are available face-to-face only.



Air Traffic Services short courses

We have a range of short courses delivered either virtually via AKO or face-to-face.

Contact us to discuss your training needs, and delivery options.

▶ Watch Supervisor

Lead your operational team with confidence by developing skills to help you work efficiently and safely to manage an operational air traffic service environment.

▶ OJT Instructor

Become a qualified On-Job Training Instructor and learn how to apply a competency training model, give feedback that supports learning and motivate trainees through skill deficiency diagnosis and positive reinforcement.

▶ Aviation English for Aviation Professionals

Candidates are introduced to the use of English in an aviation context and will learn to improve their English language proficiency.

▶ OJT Instructor Refresher

Refresh your skills and knowledge to train people effectively in one-on-one ATS operational on-job situations, so they have the knowledge, skills and attributes to provide a safe, orderly and expeditious air traffic service.

▶ Human Factors in ATS

Gain an understanding of the factors affecting an individual's performance in aviation, and the application of human factor knowledge using practical tools that can be readily applied in an operational environment to improve safety.

▶ Incident Investigation

Learn about the air traffic control accident investigation process, and gain the knowledge and skills to participate in and support formal investigations.

▶ Procedure Design - Obstacle Assessment and Management

This course provides airport operators or obstacle control personnel with the necessary skills to evaluate aerodrome obstacles from a practical perspective.

▶ ICAO Language Proficiency Rater Training

An intensive workshop to train linguistic and operational specialists how to develop, administer, manage, and rate Oral Proficiency Interviews in the aviation industry.

▶ ATS Assessor

Learn the skills and knowledge required to conduct assessments in the operational or simulated air traffic control environment.

NZQA qualifications and pathways

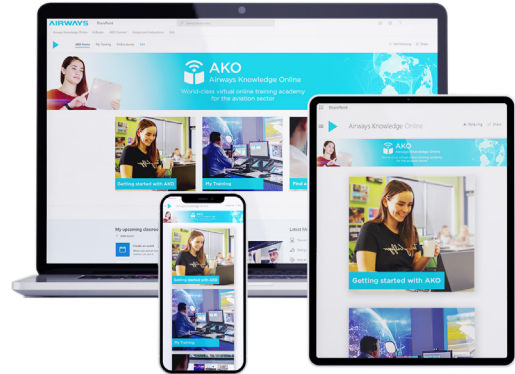
The New Zealand Qualifications Authority (NZQA) qualifications comprise core compulsory standards representing the competencies required by students, and endorsements recognising the specialised application within the sector. Students who enrol in these qualifications can achieve both the ICAO course certificates and NZQA certificate and diplomas.

Level 5 – Certificate (60 credits)	Level 6 – Diploma (120 credits)
<p>New Zealand Certificate in Air Traffic Services (ICAO 051)</p> <p>Five unit standards:</p> <ul style="list-style-type: none">▶ Air law and operational procedures▶ Aeronautical meteorology▶ Air navigation▶ Principles of flight and aircraft performance▶ Human performance	<p>New Zealand Diploma in Air Traffic Services</p> <p>Two strands:</p> <ul style="list-style-type: none">▶ Aerodrome Control and Approach Control Procedural (ICAO 052 and ICAO 053)▶ Area Control Surveillance and Area Control Procedural (ICAO 054 and ICAO 055)

Virtual training academy

Airways Knowledge Online (AKO) is our virtual training academy for the aviation sector. Students can access a range of online courses, in an instructor-led virtual classroom, or in their own time.

Interactive dynamic content keeps learners engaged, via an e-learning platform accessible 24/7.




AirBooks

Interactive digital learning

Our range of AirBooks interactive learning resources allow students to work and learn at their own pace while engaging with dynamic digital content.



Fast

Increase the reach and availability of your training — speed up training rollouts and completion timeframes.



On-demand

Subscribe to the AirBooks Library to access ready-to-use cloud-based resources.



Flexible

AirBooks supports self-study, blended, and classroom based training.



Interactive

Engage with interactive content, 3D animations and games, as well as assessments and quizzes that provide rapid feedback on progress.

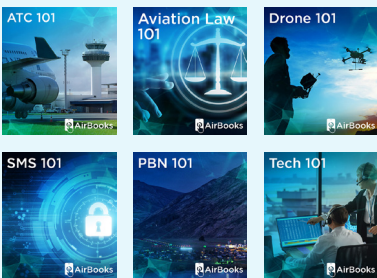


Mobile

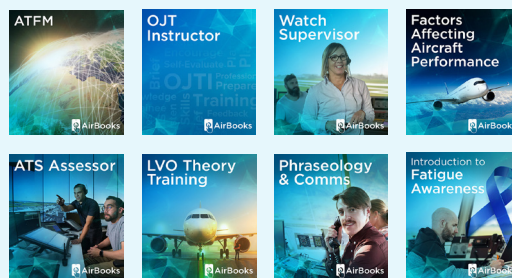
AirBooks can be accessed on any device. Download your content for offline use as you need to.

There are more than 60 AirBooks available in the AKO AirBooks library:

Introduction



Operations



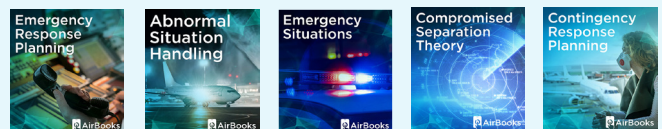
051 ATS Licensing Subjects



ATSEP



Emergencies



Prepare your people for operational success with TotalControl – a highly realistic, easy-to-use and globally proven ATC simulation platform with the flexibility to meet all your training needs.

TotalControl brings real operational knowledge into every part of the simulation experience, and provides an extraordinary level of realism.



65+

TotalControl simulators delivered



18 countries

using TotalControl simulation

Why choose TotalControl



Immersive learning with a highly realistic view

Build confidence and achieve operational readiness faster with TotalControl. A fully immersive learning experience for ab initio trainees and operational controllers alike.



Easy to learn and use

Training scenarios are easy to create with an AI-assisted flight generator and simple to use controls, maximising trainees' time in the simulator.



Built by controllers, for controllers

TotalControl comes from Airways, a leading air navigation service provider with deep insight into ATC training challenges. It's refined with real world operational experience, reflecting true training demands.



Cost-effective, flexible, scalable

Cloud and AI capable, TotalControl is designed to run on commercial off-the-shelf hardware, making it one of the industry's most affordable and cost-effective simulators to own and operate.

Sim-in-a-Suitcase

Sim-in-a-Suitcase is a compact, cost-effective portable simulator you can deploy to any location and can be set up within a few minutes. This option allows you to train locally or remotely with remote sim pilots, with the ability to scale your simulator training on demand.

This mobile simulation model dramatically lowers training costs by reducing travel time and minimising time off roster by operational ATC instructors.



Flexible configurations

TotalControl is available in multiple configurations – from large multi-position tower CABs to portable 'Sim-in-a-Suitcase' options, there's a TotalControl simulation solution to meet your specific needs.



Large CAB



Surveillance sim



Sim-in-a-Suitcase

SureSelect is a validated, objective and automated solution that helps you to improve efficiency, speed up selection results, make impartial decisions, and test ATC-specific competencies.

You can access a range of test suites, deploy tests and view results via an easy-to-use online platform. Our flexible approach allows you to tailor selection to your goals and budget.



58,000+

ATC candidates tested through SureSelect



4 modules

assessing ATC-specific competencies



Scalable

Reach more potential candidates



Relevant

Tests aligned to your core competencies, with high face validity



Cost-effective

Initial tests are online and unsupervised



Automated process

Reduce administrative overheads



Flexible

Change your approach to suit your selection needs



Scientifically validated

Supported by years of data and real world results

Modules



ATC Skill Simulations

ATC-specific gamified tests:

- ▶ Short term memory
- ▶ Spatial reasoning
- ▶ Remembering relationships
- ▶ Radar simulation (safety, efficiency and multi-tasking)

Estimated time: **1 hr 30 mins**



Behavioural Traits

Assessment of behavioural traits predictive of ATC success:

- ▶ Decisiveness
- ▶ Emotional control
- ▶ Organised
- ▶ Take charge
- ▶ Learning focus

Estimated time: **20 mins**



ATC Cognitive Ability

Assessment of core ATC abilities:

- ▶ Detail accuracy
- ▶ Coded reasoning

Estimated time: **45 mins**



Assessment Centre

Enhanced decision-making through direct observation:

- ▶ Competency based approach
- ▶ Individual and group activities
- ▶ ATC-specific assessments
- ▶ Measurable evaluations that support automated test results

Estimated time: **8 hours**

Airways International provides leading-edge Aeronautical Information Management (AIM) and Instrument Flight Procedure design services tailored to meet the unique needs of our clients through Aeropath, our specialist AIM and flight procedure design service.

We specialise in Performance Based Navigation (PBN) procedures development and maintenance, Instrument Flight Procedures training, digital aeronautical data management and charting, and support for the AIS to AIM transition.



Global experts in Instrument Flight Procedure design

Flight procedure design experience across 20+ countries.



Deep experience in Performance Based Navigation

Aeropath has introduced PBN procedures into some of the most challenging airspace in the world, including multi runway environments.



AIM and aeronautical data specialists

In-depth experience in all aspects of AIM - data is at the core of what we do.

Instrument Flight Procedure design

Aeropath's highly experienced procedure designers work with state regulators, air navigation service providers, airlines and airport authorities to design, verify and maintain reliable, state-of-the-art flight procedures and solutions.


Aeropath is the largest commercial procedure design organisation in Asia Pacific, with decades of design experience. Aeropath's New Zealand certification to design flight procedures is recognised in multiple jurisdictions and we are a contributing member of the ICAO Instrument Flight Procedures Panel (IFPP).

AIM services


Our team has in-depth experience in all aspects of Aeronautical Information Management (AIM). Certified under New Zealand Civil Aviation Rules Part 175 to provide the AIM service for New Zealand, Aeropath manages the end-to-end production of the New Zealand AIP - and provides this service for a number of Pacific States.

Our team has world-class expertise in aeronautical data and database systems - data is at the core of what we do. As aeronautical charting and GIS experts, Aeropath is developing next generation solutions to enable aviation charts to become more dynamic, tailored to specific uses and fit-for-purpose.

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

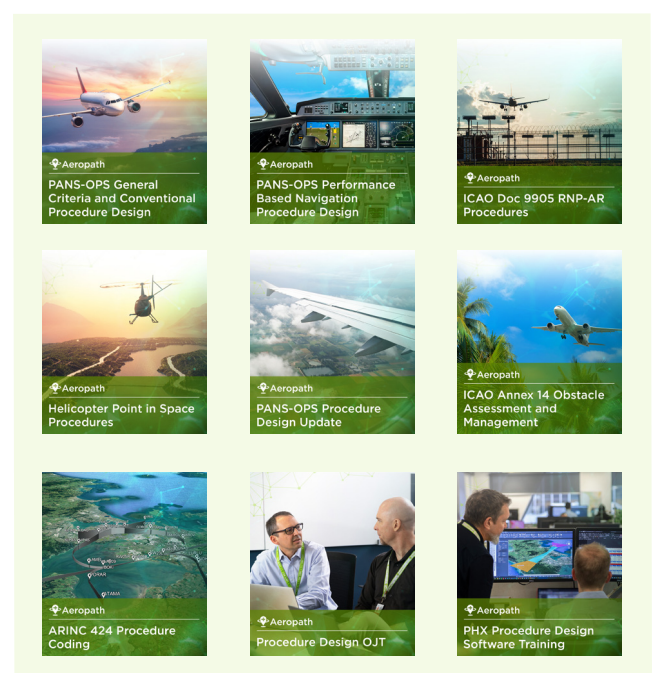
Introduces the principles of coding instrument flight procedures using the ARINC 424 Navigation System Database Standard.

► 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 programme, to enable proficient ongoing use of PHX in day-to-day design tasks.





12 years

operating in live airspace



450,000+

flights managed



17

control towers using AirShare



20+

non-ATC airspace managers using AirShare

As uncrewed aircraft (UA) continue to rapidly increase in both numbers and capability, with advanced air mobility nearing take-off, the need to ensure the safe integration of UA into our global airspace requires careful planning and strong cooperation.

With the ever-growing changes in airspace, ANSPs and regulators need to ensure they have the right tools to support safe, controlled skies. AirShare can provide an ecosystem ready solution, underpinned by our CIS solution providing a single source of the truth via APIs to all stakeholders. The outcome is improved management of uncrewed traffic, greater situational awareness and reduced risk.

Airspace Management for UA

The Airspace Manager module provides real-time display and management of nationwide UA activity.

- ▶ Manage flight requests from a single operational console
- ▶ Provide geo-awareness, flight authorisation, traffic information and remote ID services
- ▶ Communications with pilots to ensure flight operations are adhered to
- ▶ Dashboards for airspace managers

With AirShare on board, ANSPs and regulators can:

- ▶ Manage UA flight requests
- ▶ Build UTM ecosystem
- ▶ Reduce ATC workload
- ▶ Reduce risk and increase compliance.

Ecosystem ready

AirShare aggregates data from various sources to provide an operational picture to reduce risk from drones.

Options include:

- ▶ USSPs, PSUs, pilot and drone registries
- ▶ UA detection systems
- ▶ Remote ID and UA flight positional data
- ▶ Digitised airspace charts and NOTAMs



Aviation Services

Airways International provides equipment infrastructure and maintenance, flight inspection, upper airspace management and aviation consultancy services to airport and ANSP customers in New Zealand, the Pacific and around the world.



Airfield infrastructure and navigation aids

Airways can provide the expertise you need for airfield infrastructure and air navigation service equipment. We have over 20 years' experience in navigation and communication systems, from project management through to onsite commissioning, and we've earned a reputation for quality planning and design.

Whether we are installing ground-based navigational aids in remote corners of the Pacific, or new surveillance equipment in a city-based radar centre, our engineers ensure the end result is a safe and efficient operation.

Aviation consultancy services

Airways International has the experience and expertise to consult on ATM system engineering projects around the globe. Our experienced staff have worked extensively throughout the Middle East and Asia Pacific on significant aviation infrastructure projects.

Supporting the growth of Pacific aviation

We are committed to working closely and collaboratively with our state partners across the South Pacific to support the development and improvement of air navigation services in the region.

Airways manages the upper airspace across the Auckland Oceanic Flight Information Region, which includes Tonga, Samoa, Niue and the Cook Islands, using our Oceanic Control System.

We provide ICAO compliant, independent flight inspection services to our customers in the Pacific. Our specialists are experts in calibrating radio and visual navigation aids and radar systems, and in validating instrument flight procedures. Our inspection engineers are also navigation aid experts, meaning they can add plenty of value to your business.

Airways has a long history and depth of experience working with South Pacific aviation regulators and operators to improve aviation infrastructure in the region. We also work closely with funding and industry bodies such as the New Zealand Ministry of Foreign Affairs and Trade (MFAT), the World Bank, the Pacific Aviation Safety Office (PASO) and the Association of South Pacific Airlines (ASPA) to assist the development of aviation across the South Pacific.



Leading with innovation

At Airways International, innovation underpins how we support the future of air traffic control training and selection.

We develop practical, forward-looking solutions that combine operational expertise with digital, simulation and data-driven capability – helping our customers prepare the next generation of controllers.

A roadmap for the future of ATC capability

Our innovation roadmap reflects our commitment to evolving capability, adopting new technologies, and working in close partnership with our customers and partners to build solutions that are relevant, scalable and ready for real-world operational environments.

Evolving simulation for next-generation training

Simulation sits at the centre of our innovation journey. Advances in AI are enabling faster scenario creation, more intelligent pseudo-pilot capability, and richer data insights, while virtual and mixed reality will further enhance immersion and training delivery.

At the same time, we're transforming how simulation is delivered. Our Sim-in-a-Suitcase portable solution represents a step change in flexibility, enabling high fidelity simulation that can be deployed anywhere to reduce travel, lower costs and minimise disruption to operations.



Turning assessments into intelligence

We are continuously evolving our digital platforms to support a more connected, structured and data-led training and selection journey – linking each stage of development to provide clearer insights, stronger consistency and better training outcomes.

Our cloud-based SureSelect ATC selection solution identifies potential candidates early using low administration, high automation and unbiased screening.

OnTrac is a new digital platform in development, designed to build on this foundation. As a single source of truth for ATC training, it brings together assessment, performance tracking and training data into one connected environment – giving instructors, assessors, supervisors and operational managers greater visibility of progress and readiness.

Talk to us today

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AIRWAYS
International

14/05/2026