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"ICAO is working with industry stakeholders to assist the global aviation community in attracting, training, educating and retaining the next generation of aviation professionals"

Ref: Global Air Navigation Plan (GANP), Chapter 2 Training, Recruiting and Human Performance Considerations

GOBIERNO DE ESPAÑA
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For further information, please contact:
email MasterNA@enaire.es

www.enaire.es

Master Degree in Air Navigation Services Management

UAM
Universidad Autónoma de Madrid

UNIVERSIDAD POLITÉCNICA DE MADRID
POLITÉCNICA

Main Characteristics

This Master Programme is aimed at strengthening the managerial competencies of ANS professionals globally, and other professionals which are involved in ANS matters such as airlines staff, airport managers, regulators and supervisors, military staff, meteorological providers, air navigations service providers, etc.

Its objective is to provide candidates with specialised technical, operational and managerial competencies so that they acquire a broad understanding of air navigation services and the context (current and future) in which they are provided.

To this end, the programme also benefits of the partnership between industry and academia. Highly skilled instructors from both sectors will share their expertise, and provide participants with a 360 degree approach to the subjects treated.

Programme

The duration of the programme is one academic year and its design and delivery incorporates the most advanced training techniques. Its architecture is structured in the following three modules with specific thematic orientation:

- Module I: Fundamentals and planning of air navigation services (18 credits)
- Module II: Advanced management of ANS corporate services (18 credits)
- Module III: Advanced management of technical-operational ANS services (18 credits)
- Master Thesis: a project in which the student demonstrates the competences acquired during the master programme (6 credits)

Upon the completion of each module, candidates will obtain a diploma in air navigation services that will qualify them for the relevant specialization. Once the modules and the thesis have been completed, the student will obtain a Master's degree.

The Master degree is jointly issued by two of the most prestigious public universities in Spain; The Polytechnical University of Madrid and the Autonomous University of Madrid.

The Master's programme is complemented by internship carried out in the departments of ENAIRE. For each candidate a tutor will be assigned for support, guidance and assigning professional tasks to be performed during the candidate´s stay.

Background

Within the framework of its Strategic Plan (Flight Plan 2025), ENAIRE has established the Corporate and Innovation Campus with the aim of integrating activities to improve the competencies of its employees beyond the current formal training of operational staff.

ENAIRE has identified as a priority the development of an educational programme for professionals involved in Air Navigation Services (ANS). This initiative has been considered a key element to improve the provision of air navigation services in accordance with the current needs and future demands of the sector.

Although many training programmes can be found in different aviation specialities, programmes focused on air navigation services are not equally easy to find. The Master Degree in Air Navigation Services Management aims to fill this gap, and is targeted to all professionals working in this field.

Syllabus

Module I - Fundamentals and planning

Modules / Learning Units	Credits
Fundamentals of air transport	2
Introduction to ANS	3
Legal and institutional framework	1,5
Programmes and plans	3
ANS Planning	3
Management Sytems	2,5
Management Skills	3

Module II - Advanced Corporate Management

Modules / Learning Units	Credits
Organizational Management	2,5
Transport Economy	2
Economical Management	2,5
Accounting, investment & financing	2,5
HR management and planning	2,5
Practices Module II	6

Module III - Advance Technical-Operational

Modules / Learning Units	Credits
ATM operations and airspace management	2,5
System technical exploitation	2
Aeronautical information management	2
Safety	1,5
Security and cybersecurity	1
Environment in ANS	1,5
Human Factors	1,5
Practices Module III	6

Master Architecture

Certificate	Accumulate credits*		
Master Degree	60	6	Final Master Thesis
Specialist Certificate	54	6	Practices Module III
		6	Practices Module II
	42	12	Module III: Advanced level
		12	Module II: Advanced level
Expert Certificate	18	18	Module I: Basic level
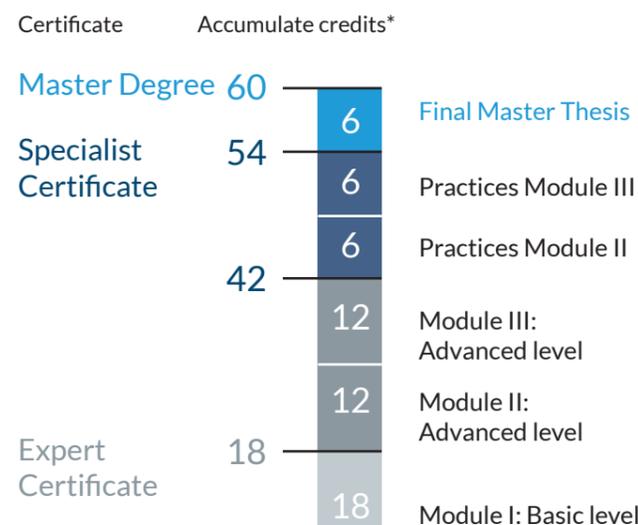
*1 credit = 10 class hours

Cooperation

The Master is developed by ENAIRE, the Polytechnical University of Madrid and the Autonomous University of Madrid in collaboration with the International Civil Aviation Organization (ICAO). This Master's programme is recognized under the ICAO TRAINAIR PLUS Programme (TPP).

Delivery Format

Students will have the option to attend this programme in one of the following delivery formats:

1) Face-to-face/Streaming:

Starting in September and ending in June, face-to-face classes will be taking place at ENAIRE offices in Madrid, Spain on weekends, i.e. Friday evenings and Saturday mornings. For students who are not able to attend the face-to-face format, classes will be broadcasted live via streaming.

2) On-line:

Students will get access to recorded classes made available at any moment through a dedicated training platform.

Students in both delivery formats will have access to on-line tutoring and direct interaction with the instructors at any time.

Registering

Fee	Face-to-face	On-Line
Full	10.000 €	7.250 €

Scholarship

ENAIRE has launched a scholarship programme that covers the Master's registration for both delivery format (synchronous and asynchronous).

These scholarships do not include the cost of accommodation and meals during the internship. The number of grants are limited.

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