

Understanding Air Traffic Control (ATC)

27-28 October 2009

Helios, Farnborough, UK

This two-day course is aimed at those with a need to understand ATC, the legacy system, and the current factors driving change in the provision of Air Navigation Services.

Day 1 provides a detailed insight into the tasks undertaken by air traffic controllers (ATCOs) within the present ATC environment. Day 2 examines the main drivers for change, the institutional and legal framework, and also explains how future technologies will support new operating concepts and assist in addressing the environmental and efficiency challenges confronting commercial aviation.

DAY 1: How air traffic control works, how the system is regulated, managed and operated

1. Major organisations concerned with ATC

Explains who they are, what they do and how they interrelate.

2. Being an ATCO

Examines what the job entails, the skills required and the technologies employed.

3. Airspace and flight rules

Describes how European airspace is organised, the rules of the air and their application.

4. Flight Profile (1) Ground and Departure

Reviews the initial phase of a routine commercial flight from start-up, taxiing, take-off and climb-out focussing on the respective roles of ground, aerodrome and departure control.

5. Flight Profile (2) En-Route

Explains the procedures and equipment employed during the transit phase of flight.

6. Flight Profile (3) Arrivals

Describes the final phase of flight from descent to landing and explains the methods used to ensure an orderly flow of aircraft, including sequencing, holding patterns and the use of landing aids.

VENUE

The course will be held in Helios HQ in Farnborough, UK, 45mins from Heathrow or Gatwick.

WHAT'S INCLUDED?

All lunches, refreshments and workbooks for the duration of the course. Please note that overnight hotel accommodation is NOT included in the price.

HOW TO BOOK

Booking is simple. Please call Linda on +44 1252 451 681 or visit our website at www.askhelios.com/atc-training

Helios, 29 Hercules Way, Aerospace Boulevard, AeroPark, Farnborough, Hampshire, GU14 6UU, UK

DAY 2: Drivers for change, and their impact on the provision of Air Navigation Services

1. The changing institutional and legal framework

Looking at the changing role of ANSPs, NSAs, ICAO and governmental organisations, for example in Europe: Single European Sky (I and II), EASA and the SESAR Joint Undertaking. Introduction to the ICAO safety and performance frameworks.

2. The performance framework and its impact

An overview of the Key Performance Areas, benchmarking, and their impact on the provision of Air Navigation Services. Discussion of the trade-offs necessary in the future.

3. A focus on environmental drivers

Focusing on the environmental drivers, from each actors' point of view (airlines, ANSPs, airports, government).

4. Flight Profile (1) Ground and Departure in the future

Building on Day 1, identifying the proposed changes in ground and departure operations, and the key technologies and applications which support these changes.

5. Flight Profile (2) En-Route in the future

The proposed changes in en-route operations, including an overview of the move towards more strategic flow management in the global airspace.

6. Flight Profile (3) Arrivals in the future

The changes in arrival operations in the next 5, 10 and 20 years, the underpinning technology, and the impact on controllers and pilots.

7. Wrap-up

Discussion on likely timelines, and strategic decisions needed by stakeholders.

EARLY BIRD REGISTRATION

Book by 18 September and save €100. Places are limited - another reason to book early!

