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Air Navigation

# Performance-based Navigation (PBN) Operations Approval

 Online

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# Performance-based Navigation (PBN) Operations Approval Online



The PBN implementation process represents a shift from sensor-based to performance-based navigation. PBN routes and procedures are designed to meet a required navigation performance (RNP) which is defined in terms of accuracy, integrity, availability, continuity and functionality for the proposed operations in the context of a particular airspace. Commercial air transport operators need to have an operational approval to fly PBN routes and procedures.

## ▶ **GOAL:**

This course is to explain course participants the concept, implementation and operations approval process for PBN.

## ▶ **COURSE OUTLINE:**

The following online modules cover:

1. Operations Approval. PBN Concept. PBN Operations Approval. States and Regulatory Agencies. State Decisions Influential Factors. Operational Approval Scope. Documentation. Operational Approval Formula.
2. Operational approval content. Undocumented Certification Options. Certification actions scenarios. Operating Procedures. Flight Planning. Prior to Commencing PBN Operations. During PBN Operations. Non-normal Operations.
3. Pilot, Dispatch, and Maintenance. Area Navigation principles. Navigation system principles. Equipment, Operations and Functionality. Flight Planning. SID and STARs. Approaches - RNP APCH. Navigation Data Chain. Navigation Database Requirements.
4. Documentation. Operational Approval Application. Documentation. Operational Approval Oversight.

## ▶ **LEARNING OBJECTIVES:**

Upon completion of the course, participants will be able to accomplish the following:

- Characterize the PBN Concept;
- Define a PBN Approval;
- Characterize the documentation required for submission;
- Define the process the regulator will follow.

## ▶ **TARGET POPULATION:**

- Civil Aviation Authorities (CAA);
- Airline Personnel.

## ▶ **STRUCTURE OF THE COURSE:**

Course duration: 5 hours

Delivery mode: Online

Language of instruction: English



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