King Schools Online
Internet Learning Programs

Precision and Basic RNAV (P-RNAV [RNP-1]/B-RNAV [RNP-5]) in Europe

Pilot Certification Course

SYLLABUS

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Precision RNAV (P-RNAV (RNP-1)) in Europe

Pilot Certification Syllabus

INTRODUCTION

The King Schools Online Basic and Precision RNAV (B-RNAV [RNP-5] and P-RNAV [RNP-1]) Pilot Certification Course meets the pilot training requirements established by EUROCONTROL for P-RNAV (RNP-1) pilot certification. This course:

- Provides an overview of Basic and Precision RNAV
- Covers requirements for aircraft and pilot certification for B-RNAV (RNP-5) and P-RNAV (RNP-1) authorization in Europe
- Provides required pilot academic training for P-RNAV (RNP-1) authorization
- Must be used in conjunction with company and equipment specific pilot training
- May be used for both initial and recurrent training in Part 91, Part 125, or Part 135 operations
- Is offered only through individual Internet study
- Is efficient and practical

COURSE ELEMENTS AND STRUCTURE

The King Schools Online B-RNAV (RNP-5) and P-RNAV (RNP-1) Pilot Certification Course contains four major subject areas (Labs) with two or more distinct Lessons per Lab. Following each Lesson's study materials, the pilot sees a quiz containing multiple-choice and/or True/False questions. There are approximately 35 questions in the course. Most pilots will require at least one hour to complete this course.

COMPLETION STANDARDS

Pilots complete the course when all the Labs are checked off with a completion date on the course main menu. An individual Lab is finished after completing all of the Lessons contained in that Lab. Lesson completion requires accessing each lesson page of study materials and correctly answering all questions in the quiz associated with that Lesson.

CERTIFICATE OF COMPLETION

A Completion Certificate individualized for the pilot enrolled in the course and a logbook endorsement may be accessed at the "Print your Course Completion Materials" icon/link on the main menu only after the entire course has been completed. Pilots clicking the "Print your Course Completion Materials" icon/link before the course has been completed receive a message saying that the certificate will be available after the entire course is completed.

ENROLLMENT PROCEDURES

A pilot may individually order and enroll in the course, or flight departments may order multiple courses and receive a “key” for each course ordered. The flight department then assigns a key to each pilot requiring training. Each pilot registers individually at *https://ilearn.kingschools.com* for the course.

COURSE STUDY

The pilot first enrolls in the course, and then logs in to access the course Labs and Lessons. If the pilot has insufficient time to complete the course in one session, the pilot may log out. The program records all Lesson and Lab completions and every question answered. When returning to the course, the pilot may resume at the last point of progress.

LAB 1

UNDERSTANDING B-RNAV (RNP-5) AND P-RNAV (RNP-1)

LESSONS

1 What B-RNAV (RNP-5) and P-RNAV (RNP-1) Are

Lesson Objective: To learn the definitions of Area Navigation (RNAV), Required Navigation Performance (RNP) and Basic and Precision RNAV with an overview of general B-RNAV (RNP-5) and P-RNAV (RNP-1) terminal concepts.

2 How You Will Use B-RNAV (RNP-5) and P-RNAV (RNP-1)

Lesson Objective: To learn where B-RNAV (RNP-5) and P-RNAV (RNP-1) procedures are implemented. You will also learn general requirements for B-RNAV (RNP-5) and P-RNAV (RNP-1) approval.

LAB 2

B-RNAV (RNP-5) and P-RNAV (RNP-1) AUTHORIZATION REQUIREMENTS

LESSONS

1 Aircraft Certification for B-RNAV (RNP-5) and P-RNAV (RNP-1)

Lesson Objective: To provide specific information on airworthiness requirements for the aircraft. You will also learn required and recommended system functions for RNAV systems in European airspace.

2 Operational Authorization for B-RNAV (RNP-5) and P-RNAV (RNP-1)

Lesson Objective: To provide the specific information necessary to establish company procedures for obtaining operational approval for RNAV flights in Europe, including normal and contingency procedures.

LAB 3

B-RNAV (RNP-5) AND P-RNAV (RNP-1) CONCEPTS AND TERMS

LESSONS

1 Understanding RNAV Waypoints

Lesson Objective: To familiarize pilots with the different waypoint symbols used in RNAV departure and arrivals and what they mean.

2 RNAV Path Terminators

Lesson Objective: To familiarize pilots with the different paths and segment termination events and conditions used in RNAV departure and arrival procedures.

3 Arrival Procedures

Lesson Objective: To familiarize pilots with "open" and "closed" arrival procedures and what they mean for safe arrival operations.

LAB 4

B-RNAV (RNP-5) AND P-RNAV (RNP-1) OPERATIONAL PROCEDURES

LESSONS

1 Normal Operations

Lesson Objective: To learn normal operations for pre-flight, departure, en route and arrival in an RNAV environment.

2 Flight Plan Information

Lesson Objective: To learn the information required in the ICAO international flight plan to indicate RNAV capability and authorization.

3 Communications Procedures

Lesson Objective: To learn standard terminology for radio calls in an RNAV environment, especially for RNAV-unique procedures.

4 Terrain Clearance in RNAV

Lesson Objective: To learn when the pilot is responsible for terrain clearance during RNAV procedures, and when the controller is responsible.

5 Contingency Operations

Lesson Objective: To learn approved procedures for navigational equipment failure(s) when operating under RNAV.

6 Incident Reporting

Lesson Objective: To learn incident reporting criteria for the Joint Aviation Authorities (JAA) under JAA TGL-10 and Joint Air Requirements (JAR)-OPS 1.