

**King Schools Online
Internet Learning Programs**

Minimum Navigation Performance Specification (MNPS)

Flight Crew Certification Course

SYLLABUS

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Minimum Navigation Performance Specification (MNPS)

Pilot Training Syllabus

INTRODUCTION

The King Schools Online Minimum Navigation Performance Specification (MNPS) Flight Crew Certification Course meets the pilot training requirements for MNPS operations. This course:

- Includes Special Emphasis for operators seeking approval for operations required under 14 CFR Part 91.705
- Includes resources for determining the correct MNPS Contingency Procedures in North Atlantic (NAT) MNPS airspace
- May be used for both initial and recurrent training in Part 91 or Part 135 operations
- Is offered only through individual Internet study
- Is efficient and practical

COURSE ELEMENTS AND STRUCTURE

The King Schools Online MNPS Flight Crew 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 40 questions in the course. Most pilots will require at least an hour to complete this course.

COMPLETION STANDARDS

Pilots complete the course when all four 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 Course Completion Certificate and Logbook Endorsement" icon on the main menu only after the entire course has been completed. Pilots clicking the "Print Course Completion Certificate" icon 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 King Schools Online MNPS course or flight departments may order multiple courses receiving a "key" for each course ordered. The flight department then assigns a key to each pilot requiring MNPS training. Each pilot registers individually at www.kingschoolsonline.com for the MNPS course.

COURSE STUDY

The pilot first enrolls in the MNPS course, and then logs in to access the course. 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

AN MNPS OVERVIEW

LESSONS

1 What MNPS Airspace Is

Lesson Objective: To learn the definition of MNPS and get an overview of general MNPS concepts, including the authorizations required and how to indicate you are MNPS certified and capable.

2 Where MNPS Applies

Lesson Objective: To learn where MNPS rules apply.

3 Horizontal and Vertical Separation

Lesson Objective: To learn horizontal and vertical separation criteria in MNPS airspace, and what happens to aircraft that are not MNPS certified.

4 Routes in MNPS

Lesson Objective: To learn the different routes available in MNPS airspace, including the North Atlantic Organized Track System (NAT OTS), and the minimum equipment required to use each type of route.

LAB 2

TRAINING AND EQUIPMENT REQUIRED TO OPERATE IN MNPS AIRSPACE

LESSONS

1 Pilot Training Requirements for MNPS Operations

Lesson Objective: To learn the pilot training requirements for authorization to fly in MNPS airspace.

2 Aircraft Requirements for MNPS Operations

Lesson Objective: To learn the aircraft equipment requirements to be authorized to operate in MNPS airspace, including the Fault Detection and Exclusion (FDE) requirements for using GPS.

LAB 3

MNPS GOOD OPERATING PRACTICES

LESSONS

1 Best Practices for MNPS Operations

Lesson Objective: To learn best practices to avoid navigational errors in MNPS airspace.

2 Communications Options

Lesson Objective: To learn required and optional communication modes when operating in MNPS airspace.

3 Clearances Required for Flying Between Europe and North America

Lesson Objective: To learn clearance elements and where and how to get clearances for flights in MNPS airspace.

4 Making Position and Weather Reports

Lesson Objective: To learn the international formats for position and weather reports to be used when operating in MNPS airspace.

LAB 4

CONTINGENCY PROCEDURES FOR MNPS AIRSPACE

LESSONS

1 Partial or Complete Loss of Navigation Systems

Lesson Objective: To learn procedures to be used in the event of navigation systems failures prior to and after entering MNPS airspace.

2 Loss of Communications

Lesson Objective: To learn procedures to be used in the event of communication systems failures prior to and after entering MNPS airspace.

3 Deviation around Severe Weather

Lesson Objective: To learn procedures to be used with and without ATC clearance to deviate around severe weather in MNPS airspace.

4 Wake Turbulence

Lesson Objective: To learn how to apply Strategic Lateral Offset Procedures (SLOP) to avoid wake turbulence in MNPS airspace.

5 TCAS Advisories

Lesson Objective: To learn appropriate responses to TCAS Traffic Advisories (TAs) and Resolution Alerts (RAs) in MNPS airspace.

6 Unable to Maintain Clearance (Altitude or Airspeed)

Lesson Objective: To learn procedures to be used when you are unable to maintain your assigned airspeed or altitude, and cannot get an amended clearance, in MNPS airspace.