King Schools Online
Internet Learning Programs

REDUCED VERTICAL SEPARATION MINIMUM (RVSM)

Flight Crew Certification Course

SYLLABUS

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Reduced Vertical Separation Minimum (RVSM)
Pilot Training Syllabus

INTRODUCTION
The King Schools Online Reduced Vertical Separation Minimum (RVSM) Flight Crew Certification Course meets the pilot training requirements for RVSM operations under FAR 91 Appendix G and ICAO Annex 6, paragraph 7.2.7c. This course:

- provides aircrew training outlined in AC 91-85 (Approval of Aircraft and Operators for Flight in Reduced Vertical Separation Minimum Airspace)
- includes resources for determining the correct RVSM Contingency Procedures in Specific Areas of Operation and in Oceanic Airspace per AC 91-85
- satisfies the requirements for both initial and recurrent training
- is offered only through individual Internet study

COURSE ELEMENTS AND STRUCTURE
The King Schools Online RVSM Flight Crew Certification Course contains five 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 60 questions in the course. Most pilots will require at least an hour to complete this course.

COMPLETION STANDARDS
Pilots complete the course when all five 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 Complete Materials and Endorsement" icon/link on the main menu only after the entire course has been completed. Pilotsclicking the "Print Your Course Complete Materials and Endorsement" icon/link before the Course has been completedreceive 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 RVSM 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 RVSM training. Each pilot registers individually at https://*ilearn.kingschools.com* for the RVSM course.

COURSE STUDY
The pilot first enrolls in the RVSM 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

RVSM REQUIREMENTS

LESSONS

1 What RVSM Is

Lesson Objective: To learn the definition of the RVSM concept, RVSM separation standards, RVSM Flight Levels, and the purpose for incorporating RVSM.

2 Domestic and International RVSM Operating Areas.

Lesson Objective: To learn about U.S. domestic and world-wide RVSM operating areas and implementation.

3 Why Special Equipment is Necessary in RVSM Airspace

Lesson Objective: To learn why you need special equipment for RVSM operations and what equipment is included in an RVSM installation.

4 Qualifying for RVSM

Lesson Objective: To learn the basic requirements to conduct RVSM operations and the specific equipment that must operating normally prior to entering RVSM airspace.

5 Telling ATC You Have RVSM Capability

Lesson Objective: To learn the flight plan procedures for filing into RVSM airspace.

6 Cruising Levels

Lesson Objective: To learn the appropriate flight levels for cruising courses.

7 When You Are Not RVSM Capable

Lesson Objective: To learn the procedures for transitioning RVSM airspace in the event you are not authorized for RVSM operations.

LAB 2

IN-FLIGHT CONTINGENCY PROCEDURES

LESSONS

1 Encountering Severe Turbulence or Mountain Wave Activity

Lesson Objective: To learn the appropriate procedures if turbulence or mountain wave action impacts maintaining altitude in RVSM airspace.

2 Encountering Wake Turbulence

Lesson Objective: To learn the likely impact of encountering wake turbulence in RVSM airspace and appropriate procedures for dealing with it.

3 Failure of Altitude Hold (Automatic Altitude Control), the Altitude Alerting System, or All Primary Altimeters

Lesson Objective: To learn the procedures for an altitude hold, altitude alerter, or all primary altimeters failure while in RVSM airspace.

4 Failure of One Primary Altimetry System

Lesson Objective: To learn the procedures for the failure of one of the primary altimetry systems in RVSM airspace.

5 Divergence in Primary Altimetry System Indications

Lesson Objective: To learn the procedures for a difference in the primary altimeter readings in RVSM airspace.

6 Summary

Lesson Objective: To review the required equipment for entering RVSM airspace and the impact on RVSM operations in the event of equipment failure.

LAB 3

INTERNATIONAL RVSM PROCEDURES

LESSON

1 Why International RVSM Procedures Matter To You

Lesson Objective: To learn about the international privileges afforded the holder of a U.S. RVSM authorization and about possible other international requirements.

2 Oceanic In-Flight Contingency Procedures

Lesson Objective: To learn the circumstances under which you would employ Oceanic In-Flight Contingency procedures and what those procedures are.

LAB 4

GOOD RVSM OPERATING PRACTICES

LESSON

1 Flight Planning

Lesson Objective: To learn the appropriate flight planning steps prior to an RVSM flight.

2 Preflight Checks

Lesson Objective: To learn the preflight checks to make prior to a flight into RVSM Airspace.

3 Procedures Before Entering RVSM Airspace

Lesson Objective: To learn the steps to take prior to entering RVSM Airspace.

4 In-flight Procedures

Lesson Objective: To learn appropriate in-flight procedures while in RVSM airspace.

5 Special RVSM Considerations

Lesson Objective: To learn useful hints and tips about conforming to RVSM rules.

6 Post Flight

Lesson Objective: To learn how to help maintenance personnel efficiently troubleshoot and correct RVSM-related malfunctions.

LAB 5

CONSEQUENCES OF ALTITUDE-KEEPING ERRORS

LESSON

1 Flight Level Deviation Reporting

Lesson Objective: To learn the categories, limits, and procedures for reporting flight level deviations.

2 Loss or Amendment of Authority

Lesson Objective: To learn about possible FAA actions if an operator is not complying or not able to comply with RVSM regulations.