



# REDUCED VERTICAL SEPARATION MINIMUM (RVSM) Certification Course

## SYLLABUS

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# ATR, Inc. International RVSM Online Training Program

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## Reduced Vertical Separation Minimum (RVSM) Pilot Training Syllabus

### INTRODUCTION

The ATR, Inc. Online Reduced Vertical Separation Minimum (RVSM) Certification Course meets the pilot training requirements for RVSM operations. This course:

- Includes Special Emphasis Items per AC 91-85 (Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical Separation Minimum is Applied)
- 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 FUNDAMENTALS AND STRUCTURE

The ATR, Inc. Online RVSM Certification Course contains four major subject areas (Labs) with three or more distinct Lessons per Lab. After studying each Lesson's study materials, the pilot will see a quiz containing multiple-choice and/or True/False questions. There are approximately 65 questions in the course test, and it will take an average of sixty to ninety minutes to complete.

### STANDARDS FOR COMPLETION

The course is considered complete when all five Labs have been satisfactorily completed. Each Lab is finished after all of the Lessons contained in that Lab have been satisfactorily completed. Lesson completion requires accessing each lesson page of study materials and completing the quiz for that particular lesson by correctly answering all questions.

### CERTIFICATE OF COMPLETION

A Completion Certificate for the pilot enrolled in the Course will be sent, either electronically or by postal mail, after successful course completion.

### ENROLLMENT PROCEDURES

Each pilot will register at [www.waltbradshaw.com](http://www.waltbradshaw.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 LESSONS OUTLINE**

### **RVSM BASICS AND REQUIREMENTS**

#### **1. Definition of RVSM**

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

#### **2. Definition of RVSM Airspace in the U.S. and Worldwide**

Objective: To learn about the U.S. Domestic RVSM and the status of world-wide RVSM integration.

#### **3. Required Equipment Necessary to Operate in RVSM Airspace**

Objective: To learn why you need special equipment for RVSM operations and what equipment is required to be operating normally prior to entering RVSM airspace.

#### **4. Informing ATC That You Have RVSM Capability**

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

#### **5. Cruising Levels**

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

#### **6. Informing ATC That You Are Not RVSM Capable**

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

## **LAB 2 LESSONS OUTLINE**

### **PROCEDURES FOR IN-FLIGHT CONTINGENCIES**

#### **1. Encountering Severe Turbulence**

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

#### **2. Encountering Wake Turbulence**

Objective: To learn the probable impact of encountering wake turbulence in RVSM airspace and appropriate procedures for handling it.

## PROCEDURES FOR IN-FLIGHT CONTINGENCIES (cont.)

### 3. Failure of Automatic Altitude Control, the Altitude Alerting System, or All Primary Altimeters

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

Objective: To learn the procedures for one primary altimetry system failure while in RVSM airspace.

### 5. Transponder Failure

Objective: To learn the procedures for transponder failure while in RVSM airspace.

### 6. Inability to Maintain Assigned Flight Level (Meteorological Conditions, Aircraft Performance or Pressurization Failure)

Objective: To learn the procedures if assigned flight level can not be maintained while in RVSM airspace.

### 7. If Prior Clearance Can Not Be Obtained:

Objective: To learn the procedures for contingencies if prior clearance can not be obtained while in RVSM airspace.

### 8. TCAS Alerts and Warnings

Objective: To learn the procedures for TCAS alerts and warnings while in RVSM airspace.

### 9. Cabin Fire

Objective: To learn the procedures for cabin fire while in RVSM airspace.

## **LAB 3 LESSONS OUTLINE**

### **BEST RVSM OPERATING PRACTICES**

#### **1. Flight Planning**

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

#### **2. Preflight Checks**

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

### 3. Procedures Before Entering RVSM Airspace

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

### 4. In-flight Procedures

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

### 5. Post Flight

Objective: To learn how to assist maintenance personnel in efficiently troubleshooting and correcting RVSM-related equipment malfunctions.

### 6. FAA Reports

Objective: To learn which incidents must be reported to the FAA and how to submit reports.

## **LAB 4 LESSONS OUTLINE**

### **CONSEQUENCES OF ALTITUDE-KEEPING ERRORS**

#### 1. Letters of Acceptance (LOAs)

Objective: To learn about required FAA approval prior to conducting flights in RVSM airspace.

#### 2. Loss or Amendment of Authority

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

#### 3. Flight Level Deviation Reporting

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

## **LAB 5 LESSONS OUTLINE**

### **MONITORING REQUIREMENTS**

#### **1. New Monitoring Requirements**

Objective: To learn about FAA height monitoring requirements, locations and procedures.