

**King Schools Online
Internet Learning Programs**

Part 135 Initial and Recurrency

Pilot Training Course

SYLLABUS

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Part 135 Initial and Recurrency

Pilot Training Syllabus

INTRODUCTION

The King Schools Online Part 135 Pilot Initial and Recurrency Training Course meets the general pilot training requirements established by the FAA in 14 CFR Part 135.345 for pilot qualification. This course:

- Provides an overview of general knowledge required for Part 135 operations
- Covers requirements for pilot qualifications in Part 135 operations
- Provides required pilot general academic training required by Part 135.329
- Provides testing of subjects covered as required by Part 135.293
- Must be used in conjunction with company- and equipment-specific pilot training
- May be used for both initial and recurrent training
- Is offered only through individual Internet study
- Is efficient and practical

COURSE ELEMENTS AND STRUCTURE

The King Schools Online Part 135 Indoctrination and Recurrency Pilot Qualification Course contains fifteen 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 260 questions in the course. Most pilots will require at least 32 hours to complete this course for initial indoctrination training.

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 and 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 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

AN OVERVIEW OF COMMERCIAL AIR OPERATIONS

LESSONS

1 Who is Required to Follow Part 135?

Lesson Objective: To learn the definition of commercial air operations and the applicability of Part 119 and 135, and understand the difference between Part 121 and 135 operations.

2 Additional Terms and Definitions

Lesson Objective: To learn specific definitions for various pilot positions, aircraft and types of operation as they apply to Part 135 and commercial air operations.

3 The Difference between Commuter and On-demand Operations

Lesson Objective: To learn the basic differences between commuter and on-demand operations under Part 135.

4 Eligible On-demand Operations

Lesson Objective: To learn the specific conditions and requirements for eligible on-demand operations under Part 135.

LAB 2

FLIGHT CREWMEMBER REQUIREMENTS [135.345(a)(10)]

LESSONS

1 **Certificate and Hour Requirements for Part 135 Pilots (135.343)**

Lesson Objective: To learn the ratings and experience requirements to fly VFR, IFR and eligible on-demand operations under Part 135. You will also understand the medical certificate requirements for various pilot certificates.

2 **ATP Certificate or Type Rating Requirements**

Lesson Objective: To learn when an ATP certificate and type ratings are required for Part 135 operations.

3 **PIC Qualifications for High Altitude and Category II Operations**

Lesson Objective: To learn the special qualification requirements for the pilot in command for high altitude and Category II ILS operations under Part 135.

4 **Commuter PIC Operating Experience**

Lesson Objective: To learn the additional requirements to serve as pilot in command on commuter operations under Part 135.244.

5 **Second In Command (SIC) Qualifications**

Lesson Objective: To learn the required qualifications to serve as second in command in Part 135 operations as stated in 135.245, including when a SIC type rating is required.

6 **Initial and Recurrent Pilot Testing Requirements**

Lesson Objective: To learn the testing and flight check requirements to become a Part 135 pilot, and how to maintain that qualification.

LAB 3

ARE YOU READY TO BE DISPATCHED?

LESSONS

1 Required Rest (Part 135, Subpart F)

Lesson Objective: To learn the rest requirements and duty limitations for both commuter and on-demand operations under Part 135. This lesson includes a summary of the differences between commuter and on-demand operations for rest time and duty time.

2 Drugs and Alcohol

Lesson Objective: To learn the restrictions on the use of drugs and alcohol, and the requirement for Department of Transportation drug testing.

3 Required Pilot Documents, and Replacement and Temporary Certificates (61.3 & 61.29)

Lesson Objective: To review the documents required to act as a flight crewmember and provide information on how to get temporary and replacement documents if needed.

4 Recent Flight Experience

Lesson Objective: To learn the requirements to log experience and basic landing currency. Also to review how to maintain currency for IFR operations.

5 Crew Pairing – Eligible On-Demand Operations (135.4)

Lesson Objective: To learn the specific minimum qualifications for the pilot in command and second in command when conducting eligible on-demand operations for Part 135.

LAB 4

WEIGHT AND BALANCE PROCEDURES [(135.345(a)(2))]

LESSONS

1 **Determining Aircraft Weight and Balance (135.85)**

Lesson Objective: To learn the requirements for determining aircraft weight and balance for Part 135 operations, including the use of actual, standard or segmented passenger weights.

2 **Load Manifest Form (135.63(c))**

Lesson Objective: To learn when a load manifest must be prepared, and the retention requirements for the form.

3 **Are you Carrying Passengers or Cargo?**

Lesson Objective: To learn the definition of a passenger for Part 135 operations. Also to learn when passenger briefings must be given and the information required in a passenger briefing, including the use of seat belts, emergency evacuation and exit seating rules. This lesson also covers on-board medical oxygen, weapons, portable electronic devices, alcoholic beverages, interference with crewmembers, and carry-on baggage.

4 **Are You Carrying HAZardous MATerials (HAZMAT) (Part 135, Subpart K)**

Lesson Objective: To learn the difference between will-carry and will-not-carry HAZMAT operations, and the training required for each.

LAB 5

AIRCRAFT EQUIPMENT REQUIREMENTS [(135.345(a)(10)]

LESSONS

1 Inoperable Instruments and Equipment (Minimum Equipment List)(91.213, 135.179)

Lesson Objective: To learn the minimum equipment requirements. Also to learn when a Minimum Equipment List (MEL) is required, and the use of a Nonessential Equipment and Furnishings (NEF) list.

2 Special Flight Permit (91.213(e))

Lesson Objective: To learn when a special flight permit is required and how it is obtained.

3 TCAS and TAWS (135.180, 91.221, 135.154, and 91.223)

Lesson Objective: To learn the requirements for Traffic Alert and Collision Avoidance Systems (TCAS) and Terrain Awareness and Warning Systems (TAWS).

4 Airborne Thunderstorm Detection Equipment (135.173, 135.175)

Lesson Objective: To learn the requirements and exceptions for on-board weather and storm detection equipment.

5 Oxygen Equipment Requirements (135.89, 135.157)

Lesson Objective: To learn the requirements for on-board oxygen equipment and when oxygen is required for pilots and passengers in pressurized and unpressurized aircraft.

6 Fire Extinguishers (135.55)

Lesson Objective: To learn the requirements for on-board fire extinguishers and the minimum individual training required.

LAB 6

AIRCRAFT EQUIPMENT REQUIREMENTS FOR SPECIFIC OPERATIONS

LESSONS

- 1 Required Equipment for Visual Flight Rules (VFR)(135.159, 135.161)**
Lesson Objective: To learn the minimum equipment requirements for Part 135 operations under VFR.
- 2 Required Equipment for Instrument Flight Rules (IFR)(135.163)**
Lesson Objective: To learn the minimum equipment requirements for Part 135 operations under IFR.
- 3 Equipment Required for IFR or Extended Overwater Operations (135.165)**
Lesson Objective: To learn the additional communication and navigation equipment requirements for IFR and extended overwater operations.
- 4 Emergency Equipment Required for Extended Overwater Operations (135.167, 135.183)**
Lesson Objective: To learn the required on-board emergency equipment for extended overwater and north polar operations.
- 5 Emergency Equipment for Aircraft with More than 19 Passenger Seats (135.177)**
Lesson Objective: To learn the additional emergency equipment requirements for aircraft with more than 19 seats.

LAB 7

METEOROLOGY REVIEW [135.345(a)(3)]

LESSONS

1 **Frontal Systems**

Lesson Objective: To review the basic characteristics of weather fronts and air masses.

2 **Icing**

Lesson Objective: To review icing conditions and the hazard posed by icing on the ground and in-flight.

3 **Fog and Ground Operations**

Lesson Objective: To review the conditions that form different types of fog, and to learn about low visibility taxi plans and considerations.

4 **Thunderstorms**

Lesson Objective: To review how thunderstorms form and methods of thunderstorm avoidance, including the use of on-board weather radar and NEXRAD.

5 **Turbulence**

Lesson Objective: To review what the primary causes of turbulence and how to deal with it.

6 **Wind Shear**

Lesson Objective: To review what causes wind shear, understand more about wind shear detection equipment, and review how wind shear affects airplanes and how to deal with it.

7 **High Altitude Weather**

Lesson Objective: To review high-altitude weather phenomena including the jet stream and its potential associated turbulence, and the effects of temperature. You will also review how to obtain and read high-altitude weather products.

LAB 8

SEVERE WEATHER OPERATIONS [135.345(b)(6)(i)&(ii)]

LESSONS

1 Recognizing and Avoiding Severe Weather Situations

Lesson Objective: To review the definition of severe weather situations, and to explore the resources available to the pilot to avoid severe weather.

2 Escaping from Severe Weather Situations

Lesson Objective: To review exit strategies for inadvertent encounters with severe weather.

3 Contingency Actions for Severe Weather Encounters

Lesson Objective: To review pilot actions when severe weather affects your ability to maintain assigned clearances.

LAB 9

TAKEOFF REQUIREMENTS

LESSONS

- 1 Runway Limitations and Airport Requirements (135.365, 135.367, 135.397)**
Lesson Objective: To learn about minimum runway and airport criteria, and review critical speeds during the takeoff profile.
- 2 Part 135 Weight Limitations**
Lesson Objective: To review general and specific weight limitations for takeoff for different category aircraft in Part 135 operations.
- 3 Destination Airport – Meeting Landing Limitations in order to Take Off (135.385)**
Lesson Objective: To review landing limitations that must be considered prior to departure for different category aircraft in Part 135 operations.
- 4 Alternate Airport – Meeting Landing Limitations to List an Alternate Airport (135.377, 135.387)**
Lesson Objective: To review landing limitations required to list an airport as an alternate.

LAB 10

GENERAL OPERATING PROCEDURES [135.345(a)(10)]

LESSONS

1 **Critical Phases of Flight (135.100)**

Lesson Objective: To review the critical phases of flight, and the operating rules while in a critical phase of flight.

2 **Selected Part 91 Operating Rules that Also Apply to Part 135 Operations**

Lesson Objective: To review the altitude, speed, right-of-way, and ATC rules for different category aircraft operating under Part 135.

3 **VFR Operating Procedures Specific to Part 135 Operations**

Lesson Objective: To review the limitations placed on aircraft operated VFR under Part 135.

4 **Overwater Operations (135.183)**

Lesson Objective: To review the limitations placed on aircraft operated overwater under Part 135.

LAB 11

IFR OPERATING PROCEDURES AND PERFORMANCE REQUIREMENTS [135.345(a)(10)]

LESSONS

1 Requirements for Aircraft Operated Over-the-Top or IFR

Lesson Objective: To review the required aircraft performance when operating IFR or over-the-top.

2 Taking Off and Landing Under IFR

Lesson Objective: To review the basic weather minimums for taking off and landing IFR in Part 135 operations.

3 Destination and Alternate Airport IFR Weather Minimums

Lesson Objective: To review the weather requirements at the destination and alternate airports in order to takeoff. Also, to review when you are required to declare an alternate due to weather at the planned destination airport.

4 Additional IFR Operating Limitations

Lesson Objective: To review the additional limitations and requirements for IFR operations under Part 135.

5 Second in Command (SIC) for IFR Operations (135.99, 135.101, 135.105)

Lesson Objective: To learn when a second in command is required under Part 135.

LAB 12

AIR TRAFFIC CONTROL SYSTEMS, PROCEDURES AND PHRASEOLOGY [135.345(A)(4)]

LESSONS

1 Air Traffic Control

Lesson Objective: To review air traffic control procedures at towered and non-towered airports, and high density airports. Also to review the use of aircraft call signs, including the "Lifeguard" call sign.

2 Special Operations

Lesson Objective: To review operations requiring special training and authorization including RVSM, RNP, MNPS, ETOPS, P-RNAV and SAAAR.

LAB 13

NAVIGATION AND THE USE OF NAVIGATION AIDS, INCLUDING INSTRUMENT APPROACHES [135.345(a)(5)]

LESSONS

1 Navigation Aids

Lesson Objective: To review the aids used in Class I and Class II navigation.

2 Use of Area Navigation (RNAV) Equipment on Conventional Procedures and Routes

Lesson Objective: To review the requirements and ability to use RNAV systems in the National Airspace System (NAS).

3 Instrument Approach Procedures

Lesson Objective: To review precision, non-precision and GPS approach and missed approach elements and procedures.

4 Pilot/Controller Responsibilities for Clearances and Approaches

Lesson Objective: To review pilot and controller responsibilities for clearances and approaches as stated in Section 5-5-1 of the Aeronautical Information Manual (AIM).

LAB 14

NORMAL AND EMERGENCY COMMUNICATIONS PROCEDURES [135.345(a)(6)]

LESSONS

1 Normal Communications

Lesson Objective: To review normal communications procedures with air traffic control.

2 Distress and Urgency Communications

Lesson Objective: To review distress and urgency communications and service priority from ATC when emergency assistance is required.

3 Lost Communications Procedures

Lesson Objective: To review lost communications procedures when operating in VMC and IMC.

LAB 15

THE FAA AND YOU [135.345(a)(10)]

LESSONS

1 **Operational Control**

Lesson Objective: To review the definition and importance of operational control for commercial air operations.

2 **Operations Manual**

Lesson Objective: To review the required and optional information that you will find in your company's operations manual, and when the pilot must have access to the operations manual.

3 **Passing a Ramp Check**

Lesson Objective: To review the provisions for inspection of commercial air operations and the pilot's responsibilities during a safety inspection.