



FLIGHT INSTRUCTOR FLIGHT SYLLABUS

Part 61/141

Version 1.2

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About This Syllabus

Course Objective:

The objective of this course is to give the student the necessary skill, knowledge, and experience required to obtain a Certified Flight Instructor Certificate with an Airplane category and Single-Engine Land Class rating.

Prerequisites:

The student must hold at least a second-class medical certificate, a Commercial Pilot certificate with an Instrument and Airplane category and Single Engine Land class rating, must be able to read, speak, write, and understand the English language, and must be a US Citizen with valid proof of citizenship or an alien that has gone through the Alien Flight Student Program.

Experience Requirements

Part 141: 25 hours of Flight Training with an Authorized Flight Instructor

Part 61: 15 hours of Flight Training

Certified Flight Instructor Certificate Course

This syllabus is comprised of flight training only. It satisfies the need for aeronautical skills required to earn the Certified Flight Instructor Certificate. This course is designed to meet all the flight requirements for a Certified Flight Instructor Certificate part 141. For part 61 requirements, only the lessons marked with an asterisk should be completed.

The syllabus is comprised of three stages. Each stage contains teaching modules, a stage check, and an optional review. Lessons should be conducted in the order they appear; however, it is permissible to conduct lessons inside the current stage outside of order. Stage 2 Module 4, spin training, is an exception to this rule and may be conducted when appropriate. Lessons may be conducted out of the current stage with Chief Flight Instructor approval.

Aviation Training Devices (ATD)

Any lesson (full or partial) may be completed in an ATD though it is recommended that maximum possible time be completed in an airplane. A maximum of 2.5 hours in the simulator is allotted under 14 CFR 141 Appendix F. For Part 61 an ATD flight is not recommended.

Modules

Each module must be completed in full for Part 141 flight training. In the case that a task may not be performed in an airplane (ex. NDB tracking and holding) the simulator may be used. In addition, the Chief Flight Instructor or his/her designee may deem items within a lesson as not required to be completed provided adequate reason is given. FOI Ground Briefing items are optional if student is enrolled in a CFI ground school course.

Testing Procedures

At the end of each stage, a stage check may be accomplished. The stage check will be conducted by the Chief Flight Instructor, Assistant Chief Flight Instructor, or a Check Instructor.

The stage check grading scale follows the maneuver grading scale, except the minimum passing grade for each stage check is progressively raised to ensure that learning progression has occurred. The maneuver grade scale and stage check grading scale can be found in this syllabus.

Training Standards

Training standards are based on the *Certified Flight Instructor Practical Test Standards*. Module completion standards become progressively harder throughout the syllabus in order to refine the student's skill, knowledge, and experience to meet PTS Standards.

Maneuver Grading Scale

NG – Not Graded

The task or maneuver was not graded because it was not performed

1 – Describe/Explain

The CFI Student was able to partially describe the physical aspects of the maneuver or task. The CFI Student required instructor demonstration to manipulate the aircraft controls in the proper manner.

2 - Develop

The CFI Student was able to successfully communicate the procedures of the task or maneuver as well as understand the concepts that apply. The CFI Student required instructor coaching to manipulate the aircraft controls in the proper manner.

3 – Improve (Lowest Passing Grade)

The CFI Student was able to execute the task or maneuver but required guidance from the flight instructor.

4 - Practice

The CFI Student was able to execute the task or maneuver with minimal instructor assistance but was within module completion standards

5 - Perform

The CFI Student was able to execute and teach the task or maneuver with some instructor assistance and within the module completion standard.

6 - At Standards

The CFI Student was able to execute and teach the task or maneuver with no instructor assistance and met or exceeded the CFI PTS standards.

NR - Not Required

The task or maneuver was not required to be completed in the lesson. This is only to be used with Chief Flight Instructor or his/her designee's approval or at the end of the course for optional review that were not necessary for the student to complete.

Stage Check Grading Scale

For the stage checks, the same grading scale will be used, however the lowest passing grade to complete the stage check will be raised.

Stage one: the student must achieve at least a 4 on each task or maneuver.

Stage two, the student must achieve at least a 5 on each task or maneuver.

Stage three, the student must achieve at least a 6 on each task or maneuver.

CFI Minimum Course Hours

Page		Dual Flight	Instrument	Night	Completed
01	Stage 1				
02	Module 1*	1.5			
03	Module 2*	1.5			
04	Module 3*	1.5			
05	Module 4*	1.5			
06	Module 5*	1.5			
08	Stage Check*	1.5			
12	Stage 2				
13	Module 1*	1.5			
14	Module 2*	1.5			
15	Module 3*	1.5			
16	Module 4*	1.0			
17	Module 5*	2.0			
19	Stage Check*	1.5			
23	Stage 3				
24	Module 1	1.0		1.0	
25	Module 2	1.5			
26	Module 3	1.5			
27	Module 4	1.5			
30	End of Course Test	2.0			
	Total	25		1.0	

Part 141 Appendix F Compliance

List and location of aeronautical flight tasks required for Part 141 compliance.

Part 141 Appendix F – Flight Training		Location in Syllabus
1	25 hours of flight training	Stages 1-3, All Modules
2	Fundamentals of Instructing	Stage 1-2 All Modules
3	Technical Subject Areas	Stage 1-2 All Modules
4	Preflight Preparation	Stage 1 Module 1
5	Preflight Lesson on a Maneuver to be Performed in Flight	Stage 1 Module 1
6	Preflight Procedures	Stage 1 Modules 1 and 2
7	Airport and Seaplane Base Operations	Stage 2 Module 1
8	Takeoff's, Landings, and Go-Arounds	Stage 2 Module 1
9	Fundamentals of Flight	Stage 1 Modules 1 and 2
10	Performance Maneuvers	Stage 1 Modules 1 to 5
11	Ground Reference Maneuvers	Stage 1 Modules 1 to 5
12	Slow Flight, Stalls, and Spins	Stage 1 Modules 4 and 5 Stage 2 Modules 4 and 5
13	Basic Instrument Maneuvers	Stage 2 Module 3
14	Emergency Operations	Stage 1 Modules 2, 4, and 5 Stage 2 Module 5
15	Postflight Procedures	Stage 1 Modules 1 and 5

Training Certificates

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Stage 1 – Right Seat Introduction

Objective

The purpose of this stage is to allow the pilot to become acquainted with flight from the right seat of the aircraft. The pilot will gain an understanding of parallax, landings, and basic maneuvers from the right seat of the aircraft.

Completion Standards

Stage One is complete when the pilot has successfully achieved the objectives of each module and can describe and perform the procedures for each portion of flight covered.

Flight Training

- Teach Checklist Usage
- Teach Preflight Check
- Teach Taxi Procedures
- Teach Commercial Pilot Maneuvers
- Teach Private Pilot Maneuvers
- Introduce the Stall Series

Stage 1/ Module 1*

Flight Training (1.5 Hours)**Module Objective:**

To introduce the Student to flight from the right seat and allow them to practice the communication skills required of a CFI.

Content*Ground Briefing*

- Teach a Preflight Walk Around
- Human Behavior and Effective Communication
- Securing Aircraft
- Normal T/L
- Pre and Post Flight Briefing Procedures
- Four fundamentals and Integrated flight instruction
- Before start and before t-off briefings

Teach

- Teach Checklist Usage
- Teach Preflight -Walk Around
- Teach Taxi Procedures
- Normal or Crosswind Takeoff
- Fundamentals of Flight
- Steep Turns
- Slow Flight
- Turns around a Point
- S-Turns
- Normal or Crosswind Landing
- Postflight Procedures

Completion Standards:

When the applicant demonstrates the ability to correctly explain and perform all listed maneuvers, effectively utilizes checklists, and maintains situational awareness.

Stage 1/ Module 2*

Flight Training (1.5 Hours)**Module Objective:**

For the student to gain comfort in flight from the right seat teaching and performing stalls and recoveries and using attitude references.

Content*Ground Briefing*

- Runway Incursion Avoidance
- Visual Scanning and Collision Avoidance
- The Learning Process
- Clearing Turns
- Slow flight and Stalls
- Partial engine failure on t-off and in flight
- Radio Communication

Review

- Teach Checklist Usage
- Teach Preflight Check
- Teach Taxi Procedures
- Teach Normal Takeoff and Landing
- Fundamentals of Flight
- Steep Turns
- Slow Flight various configurations
- Turns around a Point
- S-Turns
- Postflight Procedures

Teach

- Radio Communication
- Clearing Turns
- Power Off Stall and Recovery
- Power On Stall Recovery
- Partial engine loss

Completion Standards:

When the applicant demonstrates the ability to correctly explain and perform all listed maneuvers, effectively utilizes checklists, and maintains situational awareness.

Stage 1/ Module 3*

Flight Training (1.5 Hours)**Module Objective:**

For the student to practice teaching specialty takeoffs and landings.

Content*Ground Briefing*

- Principles of Flight
- Airplane Flight Controls
- The Teaching Process
- Short and Soft field T/L
- Slips to landing
- Power off 180

Teach

- Soft Field Takeoff and Climb
- Soft Field Approach and Landing
- Short Field Takeoff and Climb
- Short Field Approach and Landing
- Forward Slips to Landing
- Power Off 180
- Go Around/Rejected Landing
- Runway Incursion Avoidance
- Radio Communication
- Traffic Pattern Operations
- LAHSO
- Crosswind Takeoff
- Crosswind Landing

Completion Standards:

Accurately analyze and perform takeoffs, landings, and slips, while maintaining airspeed within 10 knots of desired speed

Stage 1/ Module 4*

Flight Training (1.5 Hours)**Module Objective:**

To become proficient in Emergency Procedures from AFH and introduce the commercial maneuvers.

Content*Ground Briefing*

- Airplane Weight and Balance
- Assessment and Critique
- Emergency Procedures
- Commercial Maneuvers
- System and Equipment Malfunctions

Review

- Soft Field Takeoff and Climb
- Soft Field Approach and Landing
- Short Field Takeoff and Climb
- Short Field Descent and Landing
- Emergency Procedures from AFH**
- Power Off 180

Teach

- Abnormal Procedures
- Engine Start Abnormals
- Systems and Equipment Malfunctions
- Emergency Descents
- Lazy 8's
- Chandelles
- 8's on Pylons

Completion Standards:

When the applicant demonstrates the ability to correctly explain and perform all listed maneuvers, effectively utilizes checklists, and maintains situational awareness.

Stage 1/ Module 5*

Flight Training (1.5 Hours)**Module Objective:**

For the student to gain comfort in the stall series and commercial maneuvers.

Content*Ground Briefing*

- Instructor Responsibilities and Professionalism
- Demonstration Stalls
- Steep spirals

Review

- Short Field Takeoff and Climb
- Chandelles
- Lazy 8's
- Emergency Procedures from AFH
- Engine failure
- Slow Flight
- Short Field Descent and Landing

Teach

- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Accelerated Stalls
- Steep Spirals

Completion Standards:

When the applicant can explain and perform each of the proficiency and demonstration stalls with minimum loss of altitude.

Stage 1/ Stage Check*

Flight Training (1.5 Hours)**Module Objective:**

For the student to successfully demonstrate all stage one maneuvers and procedures to the stage check standards.

Content*Review*

- Lazy 8's
- Power Off 180
- Postflight Procedures
- Short Field Takeoff and Climb
- Chandelles
- 8's on Pylons
- Power On Stalls
- Power Off Stalls
- Accelerated Stalls
- Steep Spirals
- Emergency Procedures from AFH
- Short Field Descent and Landing
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Steep Turns
- Slow Flight

Completion Standards:

Teach and perform each of the reviewed maneuvers, breaking them down into their basic components, and explaining how each component is important to the performance of the entire maneuver. Demonstration stalls shall be performed with minimum loss of altitude. CFI PTS Standards shall be maintained.

Stage 2 – Maneuver Improvement and Navigation

Objective

The purpose of this stage is to allow the pilot to learn to effectively teach navigational procedures and solidify their ability to teach and perform all flight maneuvers.

Completion Standards

Stage Two is complete when the pilot has successfully achieved the objectives of each module and can describe and perform the procedures for each portion of flight covered.

Flight Training

- GPS Navigation
- Pilotage
- Dead Reckoning
- Diversion
- Types of Landings
- Unusual Attitudes

Stage 2/ Module 1*

Flight Training (1.5 Hours)**Module Objective:**

To introduce the student to teaching navigational methods and allow for the practice of specialty takeoffs and landings.

Content*Ground Briefing*

- Navigation and Flight Planning
- National Airspace System
- Navigation Systems and Radar Services
- Lost Procedures
- Lost Communication

Review

- Normal or Crosswind Takeoff
- Short Field Takeoff and Landing
- Soft Field Take-off and Landing
- Power Off 180's
- Go Around/Rejected Landing
- Normal or Crosswind Landing
- Steep Spiral
- Eights on Pylons

Teach

- Navigation to a remote airport
- Lost Communication
- Deviation to an Alternate
- Slip to Landing

Completion Standards:

Explain and demonstrate flight planning and navigation from an instructional standpoint. Demonstrate how to maintain situational awareness through effective task management and communication. Introduce and demonstrate risk management and the go-no-go decision process.

Stage 2/ Module 2*

Flight Training (1.5 Hours)**Module Objective:**

To introduce the student to unusual attitude entry and recovery from the CFI perspective.

Content*Ground Briefing*

- Techniques of Flight Instruction
- Risk Management
- Complex Aircraft Operations and Systems
- Unusual Attitudes

Review

- Normal or Crosswind Takeoff
- Lazy 8's
- Chandelles
- Power On Stalls
- Power Off Stalls
- Accelerated Stalls
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Slow Flight
- Steep Turns
- Normal or Crosswind Landing

Teach

- Unusual Attitudes

Completion Standards:

When the applicant demonstrates the ability to correctly explain and perform all listed maneuvers, effectively utilizes checklists, and maintains situational awareness.

Stage 2/ Module 3*

Flight Training (1.5 Hours)**Module Objective:**

To introduce the student to basic instrument skills from the right seat of the aircraft.

Content*Ground Briefing*

- High Altitude Operations
- 14 CFR and Publications
- Basic Attitude Instrument
- Night Operations
 - Disorientation
 - Cockpit Lights
 - Night Illusions

Review

- Soft Field Takeoff
- 8's on Pylons
- Turns Around a Point
- S-Turns
- Slow Flight
- Steep Turns
- Short Field Landing

Instrument

- Straight-and-Level Flight
- Constant Airspeed Climbs
- Constant Airspeed Descents
- Turns to Headings
- Unusual Attitudes

Completion Standards:

When the applicant can demonstrate and explain all procedures and maneuvers at the standards set forth in the FAA CFI PTS

Stage 2/ Module 4*

Flight Training (1.0 Hours)**Module Objective:**

For the student to receive their spin training endorsement for the CFI Certificate.

Content*Ground Briefing*

- Spin and Upset Recovery Technique
 - Factors that Cause Anxiety Associated with Spin Instruction
 - Control Coordination
 - Control Procedure to Maintain a Stabilized Spin
 - Orientation During a Spin
- Aerodynamics of Stalls

Teach

- Spin Entries
- Spin Recoveries
- Dutch Rolls
- Falling Leaf

Completion Standards:

When successful spin recognition and recovery technique is displayed.

Stage 2/ Module 5*

Flight Training (2.0 Hours)**Module Objective:**

To practice all learned maneuvers and procedures in preparation for the Stage Two Stage Check or Check ride

Content*Ground Briefing*

- Logbook Entries and Certificate Endorsements
- Missed Written Test Questions sign off
- Teach a maneuver

Review

- Soft Field Takeoff and Climb
- Short Field Takeoff and Climb
- Chandelles
- Lazy 8's
- 8's on Pylons
- Power On Stalls
- Power Off Stalls
- Emergency Procedures from AFH
- Steep Spirals
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Accelerated Stalls
- Steep Turns
- Turns Around a Point
- S-Turns
- Unusual Attitudes
- Soft Field Descent and Landing
- Short Field Descent and Landing
- Go Around
- Slip to Landing
- Power Off 180

Completion Standards:

When the applicant can demonstrate instructional knowledge and explain and perform all tasks, procedures, and maneuvers set forth in the FAA Private and Commercial pilot ACS or CFI PTS.

Complex Aircraft Module

Flight Training (1.5 Hours)**Module Objective:**

To learn Complex systems

Content*Ground Briefing*

- Complex Systems
- Ground Effect
- Weight & Balance/Fuel Management
- Emergency Procedures from AFH
- Traffic Pattern Operations/Pre-Landing Check*

Review

- Soft Field Takeoff and Climb
- Short Field Takeoff and Climb
- Slow Flight
- Power On Stalls
- Power Off Stalls
- Elevator Trim Stall
- Emergency Descent
- Emergency Gear Extension
- Engine Management with Constant Speed Propeller
- Propeller Overspeed/Underspeed
- Steep Spirals
- Steep Turns
- Unusual Attitudes
- Soft Field Descent and Landing
- Short Field Descent and Landing
- Go Around
- Power Off 180

Completion Standards:

When the applicant can demonstrate instructional knowledge and explain and perform all tasks, procedures, and maneuvers set forth in the FAA Private and Commercial pilot ACS or CFI PTS.

Stage 2/ Stage Check*

Flight Training (1.5 Hours)

Module Objective:

For the student to successfully demonstrate stage two maneuvers and procedures to the stage check standards.

Content

Review

- Soft Field Takeoff and Climb
- Short Field Takeoff and Climb
- Chandelles
- Lazy 8's
- 8's on Pylons
- Power On Stalls
- Power Off Stalls
- Emergency Procedures from AFH
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Accelerated Stalls
- Soft Field Descent and Landing
- Short Field Descent and Landing
- Go Around
- Slip to Landing
- Power Off 180

Completion Standards:

When the applicant can demonstrate and explain all procedures and maneuvers at the standards set forth in the FAA CFI PTS

Stage 3 – Check Ride Preparation

Objective

The purpose of this stage is to allow the pilot to prepare the student for an FAA Part 141 Certified Flight Instructor Oral and Practical Exam

Completion Standards

Stage Three is complete when the pilot has successfully achieved the objectives of each module and can describe and perform the procedures for each portion of flight covered.

Flight Training

- Soft Field Takeoff and Climb
- Short Field Takeoff and Climb
- Chandelles
- Lazy 8's
- 8's on Pylons
- Power On Stalls
- Power Off Stalls
- Emergency Procedures from AFH
- Steep Spirals
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Accelerated Stalls
- Steep Turns
- Turns Around a Point
- S-Turns
- Unusual Attitudes
- Soft Field Descent and Landing
- Short Field Descent and Landing
- Go Around
- Slip to Landing
- Power Off 180

Stage 3/ Module 1

Flight Training (1.0 Hours Night)**Module Objective:**

To allow the student to review night flying procedures and illusions in the aircraft.

Content*Review*

- Normal or Crosswind Takeoff
- Short Field Takeoff and Climb
- Soft Field Takeoff and Climb
- Short Field Descent and Landing
- Soft Field Descent and Landing
- Normal or Crosswind Landing
- Go Around

Completion Standards:

At the standards set forth for each maneuver in the FAA CFI PTS

Stage 3/ Module 2

Flight Training (1.5 Hours)**Module Objective:**

To practice CFI required maneuvers in preparation for the CFI oral and practical exams.

Content*Review*

- Normal or Crosswind Takeoff
- Lazy 8's
- Chandelles
- Power On Stalls
- Power Off Stalls
- Accelerated Stalls
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Slow Flight
- Steep Turns
- Normal or Crosswind Landing
- Unusual Attitudes

Completion Standards:

At the standards set forth for each maneuver in the FAA CFI PTS

Stage 3/ Module 3

Flight Training (1.5 Hours)**Module Objective:**

To practice CFI required maneuvers in preparation for the CFI oral and practical exams.

Content*Review*

- Short Field Takeoff
- 8's on Pylons
- Turns Around a Point
- S-Turns
- Slow Flight
- Steep Turns
- Short Field Landing

Instrument

- Straight-and-Level Flight
- Constant Airspeed Climbs
- Constant Airspeed Descents
- Turns to Headings
- Unusual Attitudes

Completion Standards:

At the standards set forth for each maneuver in the FAA CFI PTS

Stage 3/ Module 4

Flight Training (1.5 Hours)**Module Objective:**

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Content*Review*

- Soft Field Takeoff and Climb
- Short Field Takeoff and Climb
- Chandelles
- Lazy 8's
- 8's on Pylons
- Power On Stalls
- Power Off Stalls
- Emergency Procedures from AFH**
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Accelerated Stalls
- Soft Field Descent and Landing
- Short Field Descent and Landing
- Go Around
- Slip to Landing
- Power Off 180

Completion Standards:

At the standards set forth for each maneuver in the FAA CFI PTS

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Stage 3 End of Course Test

Flight Training (2.0 Hours)

Module Objective:

For the student to successfully demonstrate all course maneuvers and procedures to the CFI practical Test Standards.

Content

Review

- Soft Field Takeoff and Climb
- Short Field Takeoff and Climb
- Chandelles
- Lazy 8's
- 8's on Pylons
- Power On Stalls
- Power Off Stalls
- Emergency Procedures from AFH**
- Steep Spirals
- Elevator Trim Stalls
- Secondary Stalls
- Cross Controlled Stalls
- Accelerated Stalls
- Steep Turns
- Turns Around a Point
- S-Turns
- Unusual Attitudes
- Soft Field Descent and Landing
- Short Field Descent and Landing
- Go Around
- Slip to Landing
- Power Off 180

Completion Standards:

At the standards set forth for each maneuver in the FAA CFI PTS