

Stage I - Instrument Rating

Flight Lesson 1

Leading Edge Aviation

Version 2012

Lesson Objective:

- Become familiar with the instrument training airplane.
- Briefly review normal preflight, takeoff, and landing procedures.
- Practice attitude instrument flight with emphasis on precise aircraft control solely by instrument reference including basic instrument flight maneuvers.

Preflight Discussion:

- ☐ Aircraft Certificates and Documents
- ☐ Aircraft Logbooks
- ☐ Airworthiness Requirements
- ☐ Aircraft Performance
- ☐ Aircraft Weight and Balance
- ☐ Operation of Systems

Normal Procedures:

Satisfactory

Needs Improvement

Cockpit Resource Management	<input type="checkbox"/>	<input type="checkbox"/>
Use of Checklists	<input type="checkbox"/>	<input type="checkbox"/>
Positive Exchange of Flight Controls	<input type="checkbox"/>	<input type="checkbox"/>
Engine Starting	<input type="checkbox"/>	<input type="checkbox"/>
Collision Avoidance Procedures and CFIT	<input type="checkbox"/>	<input type="checkbox"/>
Controlled Flight Into Terrain (CFIT) Prevention	<input type="checkbox"/>	<input type="checkbox"/>
Normal and Crosswind Taxiing	<input type="checkbox"/>	<input type="checkbox"/>
Normal Takeoffs and Landings	<input type="checkbox"/>	<input type="checkbox"/>
Crosswind Takeoffs and Landings	<input type="checkbox"/>	<input type="checkbox"/>
Radio Communications and ATC Light Signals	<input type="checkbox"/>	<input type="checkbox"/>
Aeronautical Decision Making, Judgment, Flight Scenarios, Risk Management	<input type="checkbox"/>	<input type="checkbox"/>
Single-Pilot Resource Management	<input type="checkbox"/>	<input type="checkbox"/>
Runway Incursion	<input type="checkbox"/>	<input type="checkbox"/>
Situational Awareness	<input type="checkbox"/>	<input type="checkbox"/>

Introduce:

Full Panel Instrument

Straight-and-Level Flight	<input type="checkbox"/>	<input type="checkbox"/>
Change of Airspeed	<input type="checkbox"/>	<input type="checkbox"/>
Standard-Rate Turns	<input type="checkbox"/>	<input type="checkbox"/>
Constant Airspeed Climbs	<input type="checkbox"/>	<input type="checkbox"/>
Climbing Turns	<input type="checkbox"/>	<input type="checkbox"/>
Constant Airspeed Descents	<input type="checkbox"/>	<input type="checkbox"/>
Descending Turns	<input type="checkbox"/>	<input type="checkbox"/>
Power-Off Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Power-On Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Maneuvering During Slow Flight	<input type="checkbox"/>	<input type="checkbox"/>
Recovery From Unusual Flight Attitudes	<input type="checkbox"/>	<input type="checkbox"/>
Operations in Turbulence	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ Takeoffs and landings will be conducted safely and at least at the private pilot proficiency level.
- ☐ During the flight the student will maintain altitude ± 200 feet, heading $\pm 15^\circ$ ands airspeed ± 15 knots and bank angles within $\pm 5^\circ$.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 2

Leading Edge Aviation

Version 2012

Lesson Objective:

- Review full panel instrument flying in preparation for partial panel flight.
- Introduce aircraft instrument systems, equipment, and preflight checks necessary for IFR flight.

Review:

Full Panel Instrument

Satisfactory

Needs Improvement

Straight and Level Flight _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Change of Airspeed _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Standard-Rate Turns _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Constant Airspeed Climbs _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Constant Airspeed Descents _____	<input type="checkbox"/>	_____ <input type="checkbox"/>

Introduce:

Aircraft Systems Related to IFR Operations _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Aircraft Flight Instruments and Navigation Equipment _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Instrument Cockpit Check _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
IFR Takeoff Preparations _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Steep Turns _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Checking Instruments and Equipment at Engine Shutdown _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Autopilot Use (if airplane so equipped) _____	<input type="checkbox"/>	_____ <input type="checkbox"/>

Completion Standards:

- ☐ Demonstrate an understanding of and basic competence in full panel instrument attitude control.
- ☐ During the flight the student will demonstrate understanding of aircraft attitude control by maintaining altitude ± 200 feet, heading $\pm 15^\circ$, airspeed ± 15 knots and bank angles within $\pm 5^\circ$.
- ☐ Display an understanding of the aircraft systems related to IFR operations and the importance of IFR preflight and takeoff preparations.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 3

Leading Edge Aviation

Version 2012

Lesson Objective:

- Review systems and equipment checks.
- Increase proficiency in full panel instrument flying.

Review:

Satisfactory

Needs Improvement

Aircraft Systems Related to IFR Operations _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Aircraft Flight Instruments and Navigation Equipment _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Instrument Cockpit Check _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Autopilot Use (if airplane so equipped) _____	<input type="checkbox"/>	_____	<input type="checkbox"/>

Full Panel Instrument

Straight-and-Level Flight _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Constant Airspeed Climbs _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Constant Airspeed Descents _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Change of Airspeed _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Standard-Rate Turns _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Steep Turns _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Power-Off Stalls _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Power-On Stalls _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Maneuvering During Slow Flight _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Recovery From Unusual Flight Attitudes _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Operations in Turbulence _____	<input type="checkbox"/>	_____	<input type="checkbox"/>

Completion Standards:

- ☐ The student will exhibit a basic understanding of systems and equipment related to IFR operations.
- ☐ The student will precisely control the airplane using full panel instrument reference.
- ☐ With minor exceptions, the student should be able to maintain altitude ± 200 feet, heading $\pm 15^\circ$ ands airspeed ± 15 knots and bank angles within $\pm 5^\circ$.
- ☐ Recognize the approach of stalls and demonstrate the correct recovery procedures from unusual flight attitudes.

Pre _____, Post _____, PIC _____, Dual _____, Inst. _____, XC _____, Solo _____, Night _____, Day Land _____, Night Land _____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 4

Leading Edge Aviation

Version 2012

Lesson Objective:

- Review full panel instrument flight.
- Introduce partial panel attitude instrument flying including related systems and equipment malfunctions.

Review:

Satisfactory

Needs Improvement

IFR Aircraft Systems _____ ☐ _____ ☐
IFR Takeoff Preparations _____ ☐ _____ ☐
Steep Turns _____ ☐ _____ ☐

Introduce:

Systems and Equipment Malfunctions

Electrical System Failure _____ ☐ _____ ☐
Loss of Communications _____ ☐ _____ ☐
Vacuum Pump Failure _____ ☐ _____ ☐
Gyroscopic Instrument Failure _____ ☐ _____ ☐
Pitot-Static Instrument Failure _____ ☐ _____ ☐

Partial Panel Instrument

Straight-and-Level Flight _____ ☐ _____ ☐
Standard-Rate Turns _____ ☐ _____ ☐
Change of Airspeed _____ ☐ _____ ☐
Constant Airspeed Climbs _____ ☐ _____ ☐
Constant Airspeed Descents _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will begin to recognize and understand the effect of instrument systems and equipment malfunctions.
- ☐ Recognize the change in instrument cross-check necessary to maintain aircraft control while using partial panel procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 5

Leading Edge Aviation

Version 2012

Lesson Objective:

- Continue to review full and partial panel instrument flight.
- Become more familiar with related systems and equipment malfunctions.
- Introduce additional full/partial panel instrument maneuvers and procedures.

Review:

Systems and Equipment Malfunctions

Satisfactory

Needs Improvement

Loss of Primary Flight Instrument Indicators _____ ☐ _____ ☐

Loss of Communications _____ ☐ _____ ☐

Partial Panel Instrument

Straight-and-Level Flight _____ ☐ _____ ☐

Standard-Rate Turns _____ ☐ _____ ☐

Change of Airspeed _____ ☐ _____ ☐

Constant Airspeed Climbs _____ ☐ _____ ☐

Constant Airspeed Descents _____ ☐ _____ ☐

Full Panel Instrument

Steep Turns _____ ☐ _____ ☐

Maneuvering During Slow Flight _____ ☐ _____ ☐

Power-Off Stalls _____ ☐ _____ ☐

Power-On Stalls _____ ☐ _____ ☐

Introduce:

Full Panel Instrument

Constant Rate Climbs _____ ☐ _____ ☐

Constant Rate Descents _____ ☐ _____ ☐

Timed Turns to Magnetic Compass Headings _____ ☐ _____ ☐

Partial Panel Instrument

Recovery From Unusual Flight Attitudes _____ ☐ _____ ☐

Timed Turns to Magnetic Compass Headings _____ ☐ _____ ☐

Magnetic Compass Turns _____ ☐ _____ ☐

Constant Rate Climbs _____ ☐ _____ ☐

Constant Rate Descents _____ ☐ _____ ☐

Completion Standards:

- ☐ Using partial panel instrument reference, the student will maintain altitude ± 200 feet, heading $\pm 15^\circ$ and airspeed ± 15 knots and desired climb and descent rate ± 150 feet per minute.
- ☐ Demonstrate a basic understanding of IFR systems operation and recognize systems and equipment malfunctions.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 6

Leading Edge Aviation

Version 2012

Lesson Objective:

- Further develop full and partial panel instrument attitude flying skills.
- Introduce partial panel stalls and maneuvering during slow flight.

Review:

Full and Partial Panel Instrument

Satisfactory

Needs Improvement

Straight-and-Level Flight	<input type="checkbox"/>	<input type="checkbox"/>
Constant Rate Climbs	<input type="checkbox"/>	<input type="checkbox"/>
Constant Airspeed Climbs	<input type="checkbox"/>	<input type="checkbox"/>
Constant Rate Descents	<input type="checkbox"/>	<input type="checkbox"/>
Constant Airspeed Descents	<input type="checkbox"/>	<input type="checkbox"/>
Timed Turns to Magnetic Compass Headings	<input type="checkbox"/>	<input type="checkbox"/>
Magnetic Compass Turns	<input type="checkbox"/>	<input type="checkbox"/>
Recovery From Unusual Flight Attitudes	<input type="checkbox"/>	<input type="checkbox"/>

Introduce:

Partial Panel Instrument

Maneuvering During Slow Flight	<input type="checkbox"/>	<input type="checkbox"/>
Power-Off Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Power-On Stalls	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ Using partial panel and full panel instrument reference, the student will recognize the typical indications of stalls, as well as perform recoveries without abrupt control usage.
- ☐ The student will perform correct recovery techniques from unusual attitudes, using full and partial panel instrument reference.

Pre____, Post____, PIC____, Dual____, Inst.____, XC____, Solo____, Night____, Day Land____, Night Land____

Aircraft Tail #_____

Instructor_____

Date_____

Student_____

Date_____

Stage I - Instrument Rating

Flight Lesson 7

Leading Edge Aviation

Version 2012

Lesson Objective:

- Enhance proficiency in the listed full panel attitude instrument maneuvers.
- Improve partial panel skills in stall recoveries, slow flight, and unusual attitude recoveries.

Review:

Full Panel Instrument

Satisfactory

Needs Improvement

Straight-and-Level Flight	<input type="checkbox"/>	<input type="checkbox"/>
Standard-Rate Turns	<input type="checkbox"/>	<input type="checkbox"/>
Constant Rate Climbs	<input type="checkbox"/>	<input type="checkbox"/>
Constant Airspeed Climbs	<input type="checkbox"/>	<input type="checkbox"/>
Constant Rate Descents	<input type="checkbox"/>	<input type="checkbox"/>
Power-Off Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Power-On Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Recovery From Unusual Flight Attitudes	<input type="checkbox"/>	<input type="checkbox"/>
Steep Turns	<input type="checkbox"/>	<input type="checkbox"/>

Partial Panel Instrument

Maneuvering During Slow Flight	<input type="checkbox"/>	<input type="checkbox"/>
Power-Off Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Power-On Stalls	<input type="checkbox"/>	<input type="checkbox"/>
Recovery From Unusual Flight Attitudes	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ Using full panel instrument reference, the student will maintain altitude ± 150 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 feet per minute.
- ☐ The student will perform correct recovery techniques from unusual attitudes using full and partial panel instrument reference.
- ☐ The student will use recovery techniques from stalls using full and partial panel instrument reference and positive control techniques with a minimum loss of altitude.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 8

Leading Edge Aviation

Version 2012

Lesson Objective:

- Continue to develop proficiency in the basic listed attitude instrument maneuvers.
- Gain an understanding of VOR orientation as well as VOR radial interception and tracking.

Review:

Partial Panel Instrument

Satisfactory

Needs Improvement

Maneuvering During Slow Flight _____ ☐ _____ ☐

Power-Off Stalls _____ ☐ _____ ☐

Power-On Stalls _____ ☐ _____ ☐

Introduce:

VOR Equipment Check _____ ☐ _____ ☐

VOR Orientation _____ ☐ _____ ☐

VOR Radial Interception and Tracking _____ ☐ _____ ☐

Intercepting and Tracking DME Arcs (based on aircraft equipment) _____ ☐ _____ ☐

Completion Standards:

- ☐ Using full panel and partial panel instrument reference, the student will maintain altitude ± 100 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 feet per minute.
- ☐ The student will display basic knowledge of VOR radial interception and tracking.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 9

Leading Edge Aviation

Version 2012

Lesson Objective:

- Gain additional experience and understanding of VOR orientation and radial interception and tracking.
- Introduce ADF equipment and NDB procedures (based on aircraft equipment).

Review:

Satisfactory

Needs Improvement

VOR Orientation _____ ☐ _____ ☐

VOR Radial Intercepting and Tracking _____ ☐ _____ ☐

Intercepting and Tracking DME Arcs (based on aircraft equipment) _____ ☐ _____ ☐

Introduce:

NDB Orientation and Homing _____ ☐ _____ ☐

NDB Bearing Interception and Tracking _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will maintain altitude ± 100 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 feet per minute while performing the listed procedures.
- ☐ The student will demonstrate increased competency in basic VOR procedures and begin to understand ADF equipment and NDB procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating Flight Lesson 10

Leading Edge Aviation
Version 2012

Lesson Objective:

- Practice and gain proficiency in ADF navigation (based on aircraft equipment).
- Learn to program and use GPS equipment for IFR navigation (based on aircraft equipment).

Review:

Satisfactory

Needs Improvement

NDB Orientation and Homing _____ ☐ _____ ☐

NDB Bearing Interception and Tracking _____ ☐ _____ ☐

Introduce:

GPS Preflight Check _____ ☐ _____ ☐

GPS Programming _____ ☐ _____ ☐

GPS Orientation _____ ☐ _____ ☐

GPS Course Interception and Tracking _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will demonstrate increased proficiency in all NDB navigation procedures.
- ☐ The student will exhibit understanding of basic GPS navigation procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 11

Leading Edge Aviation
Version 2012

Lesson Objective:

- Continue to gain proficiency with GPS navigation (based on aircraft equipment).
- Introduce front and back course localizer tracking
- Learn to interpret the CDI indications associated with the increased sensitivity of the localizer while tracking inbound on the front or back course.

Review:

Satisfactory

Needs Improvement

GPS Preflight Check _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
GPS Programming _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
GPS Orientation _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
GPS Course Interception and Tracking _____	<input type="checkbox"/>	_____	<input type="checkbox"/>

Introduce:

Localizer Tracking (Front Course) _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
Localizer Tracking (Back Course) _____	<input type="checkbox"/>	_____	<input type="checkbox"/>

Completion Standards:

- ☐ The student will demonstrate increased proficiency in GPS navigation.
- ☐ The student should maintain heading $\pm 10^\circ$ and altitude ± 100 feet.
- ☐ The student will begin to understand localizer tracking.

Pre _____, Post _____, PIC _____, Dual _____, Inst. _____, XC _____, Solo _____, Night _____, Day Land _____, Night Land _____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 12

Leading Edge Aviation

Version 2012

Lesson Objective:

- Increase proficiency in basic attitude instrument flight procedures.
- Introduce VOR, GPS, NDB, and localizer navigation using partial panel.

Review:

Full Panel Instrument

Satisfactory

Needs Improvement

Localizer Tracking (Front Course) _____ ☐ _____ ☐

Localizer Tracking (Back Course) _____ ☐ _____ ☐

Full and Partial Panel Instrument

Timed Turns to Magnetic Compass Headings _____ ☐ _____ ☐

Magnetic Compass Turns _____ ☐ _____ ☐

Straight-and-Level Flight _____ ☐ _____ ☐

Standard-Rate Turns _____ ☐ _____ ☐

Climbs _____ ☐ _____ ☐

Descents _____ ☐ _____ ☐

Power-Off Stalls _____ ☐ _____ ☐

Power-On Stalls _____ ☐ _____ ☐

Recovery From Unusual Flight Attitudes _____ ☐ _____ ☐

Introduce:

Partial Panel Instrument

VOR Navigation _____ ☐ _____ ☐

GPS Navigation _____ ☐ _____ ☐

NDB Navigation _____ ☐ _____ ☐

Localizer Navigation _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will demonstrate accurate VOR, GPS, NDB, and localizer navigation in full panel and partial panel situations.
- ☐ Using partial panel and full panel instrument reference, the student will maintain altitude ± 100 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 Feet per minute.
- ☐ The student will perform correct recovery techniques from unusual attitudes using full and partial panel instrument reference.
- ☐ The student will demonstrate the correct recovery techniques from stalls using positive control techniques with a minimum loss of altitude.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage I - Instrument Rating

Flight Lesson 13

Leading Edge Aviation

Version 2012

Stage I Check

Lesson Objective:

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student's proficiency in attitude instrument flight and navigation to ensure the student is prepared for more complex instrument flying procedures.

Review:

Satisfactory

Needs Improvement

Aircraft Systems Related to IFR Operations _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Aircraft Flight Instruments and Navigation Equipment _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Instrument Cockpit Check _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
IFR Takeoff Preparations _____	<input type="checkbox"/>	_____ <input type="checkbox"/>

Full Panel Instrument

Steep Turns _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
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Full and Partial Panel Instrument

Straight-and-Level Flight _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Constant Rate Climbs and Descents _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Constant Airspeed Climbs and Descents _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Standard-Rate Turns _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Recovery From Unusual Flight Attitudes _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Timed Turns to Magnetic Compass Headings _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Magnetic Compass Turns _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Maneuvering During Slow Flight _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Power-Off Stalls _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Power-On Stalls _____	<input type="checkbox"/>	_____ <input type="checkbox"/>

Full And Partial Panel Instrument Navigation

VOR Navigation _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
GPS Navigation _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
NDB Navigation _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Localizer Navigation _____	<input type="checkbox"/>	_____ <input type="checkbox"/>

Completion Standards:

- ☐ The student will demonstrate accurate VOR, GPS, NDB, and localizer navigation at all times.
- ☐ The student will perform correct recovery techniques from unusual attitudes using full and partial panel instrument reference.
- ☐ The student will use recovery techniques from stalls using positive control techniques with a minimum loss of altitude.
- ☐ Using full panel and partial panel instrument reference, the student will maintain altitude ± 100 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 feet per minute.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating Flight Lesson 14

Leading Edge Aviation
Version 2012

Lesson Objective:

- Review instrument systems and equipment malfunctions.
- The student should become familiar with VOR standard and nonstandard holding patterns.
- The student should become familiar with GPS and/or NDB (based on aircraft equipment) standard and nonstandard holding patterns.

Review:

Satisfactory

Needs Improvement

Systems and Equipment Malfunctions _____ ☐ _____ ☐

Full and Partial Panel Instrument Flight _____ ☐ _____ ☐

Introduce:

VOR Holding

Standard Holding _____ ☐ _____ ☐

Nonstandard Holding _____ ☐ _____ ☐

NDB Holding

Standard Holding _____ ☐ _____ ☐

Nonstandard Holding _____ ☐ _____ ☐

GPS Holding

Standard Holding _____ ☐ _____ ☐

Nonstandard Holding _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will demonstrate a basic understanding and proficiency in performing VOR, GPS, and/or NDB (based on aircraft equipment) holding pattern procedures.
- ☐ The student should maintain orientation at all times during both standard and nonstandard holding procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating

Flight Lesson 15

Leading Edge Aviation
Version 2012

Lesson Objective:

- The student should demonstrate increased proficiency in performing VOR, GPS, and/or NDB (based on aircraft equipment) holding patterns.
- Introduce standard and nonstandard localizer holding patterns.

Review:

Satisfactory

Needs Improvement

VOR Holding	<input type="checkbox"/>	<input type="checkbox"/>
GPS Holding	<input type="checkbox"/>	<input type="checkbox"/>
NDB Holding	<input type="checkbox"/>	<input type="checkbox"/>
Localizer Tracking	<input type="checkbox"/>	<input type="checkbox"/>

Introduce:

VOR Holding

Standard and Nonstandard Localizer Holding ☐ ☐

Completion Standards:

- ☐ The student will demonstrate the necessary skill and knowledge to perform the correct holding pattern entries and procedures for standard and nonstandard VOR, GPS, and/or (based on aircraft equipment) holding patterns.
- ☐ The student will exhibit basic understanding and ability to fly standard and nonstandard localizer holding patterns using the appropriate entry, timing, and wind correction procedures.

Pre____, Post____, PIC____, Dual____, Inst.____, XC____, Solo____, Night____, Day Land____, Night Land____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating

Flight Lesson 16

Leading Edge Aviation
Version 2012

Lesson Objective:

- The student will review the holding procedures introduced in previous lessons.
- The student will also be introduced to DME (based on aircraft equipment) and intersection holding patterns.

Review:

Satisfactory

Needs Improvement

VOR Holding	<input type="checkbox"/>	<input type="checkbox"/>
NDB Holding	<input type="checkbox"/>	<input type="checkbox"/>
GPS Holding	<input type="checkbox"/>	<input type="checkbox"/>
Localizer Holding	<input type="checkbox"/>	<input type="checkbox"/>

Introduce:

VOR Holding

DME Holding	<input type="checkbox"/>	<input type="checkbox"/>
Intersection Holding	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ The student will exhibit the ability to perform the correct holding pattern entries and procedures for intersection and DME (based on aircraft equipment) holding patterns.
- ☐ The student should maintain the desired altitude ± 100 feet, assigned airspeed ± 10 knots and headings $\pm 10^\circ$, within 3/4 scale deflection of the CDI during the hold.

Pre____, Post____, PIC____, Dual____, Inst.____, XC____, Solo____, Night____, Day Land____, Night Land____

Aircraft Tail #_____

Instructor_____

Date_____

Student_____

Date_____

Stage II - Instrument Rating

Flight Lesson 17

Leading Edge Aviation
Version 2012

Lesson Objective:

- Review previously learned holding pattern procedures and systems/equipment malfunctions.
- Familiarize the student with VOR approach procedures and missed approach planning.

Note: The instructor and student must keep in mind FAR 61.1(b)(9) which states an instrument approach means an approach procedure defined in Part 97 of the Federal Aviation Regulations.

If the training airplane is DME-equipped, the syllabus listings for VOR approaches may include VORTAC approaches or VOR-DME approaches.

Review:

	Satisfactory	Needs Improvement
Holding Procedures _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
Systems and Equipment Malfunctions _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

Introduce:

VOR Approaches _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
Approach Procedures to Straight-In Landing Minimums _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
Missed Approach Procedures _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

Completion Standards:

- ☐ Demonstrate proficiency in the review maneuvers and procedures.
- ☐ The student also should be able to:
 1. Explain and use the information displayed on the approach chart.
 2. Execute several initial and intermediate approach segments to arrive at the final approach fix.
 3. Complete the final approach and let down to the missed approach fix.
 4. Demonstrate the missed approach procedure as appropriate to the published chart used.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating

Flight Lesson 18

Leading Edge Aviation
Version 2012

Lesson Objective:

- Begin to develop proficiency in VOR approach procedures and missed approach planning.
- Familiarize the student with GPS and or NDB (based on aircraft equipment) approach procedures.
- Introduce procedures for completing a circling approach and landing from a straight in or circling approach.

Review:

Satisfactory

Needs Improvement

VOR Approaches _____ ☐ _____ ☐
Approach Procedures to Straight-In Landing Minimums _____ ☐ _____ ☐
Missed Approach Procedures _____ ☐ _____ ☐

Introduce:

GPS Approaches _____ ☐ _____ ☐
NDB Approaches _____ ☐ _____ ☐
Approach Procedures to Circling Landing Minimums _____ ☐ _____ ☐
Landing From a Straight-In or Circling Approach Procedure _____ ☐ _____ ☐
Visual Descent Point _____ ☐ _____ ☐
Land and Hold Short Operations _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will maintain an altitude of ± 200 feet on the initial and intermediate approach segments.
- ☐ On the final approach segment the student should maintain heading $\pm 10^\circ$ and allow less than 3/4 scale deflection of the CDI, airspeed ± 10 knots, and altitude that is not more than 100 feet above and 0 feet below the MDA.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating

Flight Lesson 19

Leading Edge Aviation
Version 2012

Lesson Objective:

- Begin to develop proficiency in VOR approach procedures and missed approach planning.
- Familiarize the student with GPS and or NDB (based on aircraft equipment) approach procedures.
- Introduce procedures for completing a circling approach and landing from a straight in or circling approach.

Review:

Satisfactory

Needs Improvement

VOR Approaches _____ ☐ _____ ☐
Approach Procedures to Straight-In Landing Minimums _____ ☐ _____ ☐
Missed Approach Procedures _____ ☐ _____ ☐

Introduce:

GPS Approaches _____ ☐ _____ ☐
NDB Approaches _____ ☐ _____ ☐
Approach Procedures to Circling Landing Minimums _____ ☐ _____ ☐
Landing From a Straight-In or Circling Approach Procedure _____ ☐ _____ ☐
Visual Descent Point _____ ☐ _____ ☐
Land and Hold Short Operations _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will maintain an altitude of ± 200 feet on the initial and intermediate approach segments.
- ☐ On the final approach segment the student should maintain heading $\pm 10^\circ$ and allow less than 3/4 scale deflection of the CDI, airspeed ± 10 knots, and altitude that is not more than 100 feet above and 0 feet below the MDA.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating Flight Lesson 20

Leading Edge Aviation
Version 2012

Lesson Objective:

- Improve proficiency VOR, GPS, and NDB approaches.
- Become familiar with ILS approach procedures.

Review:

Satisfactory

Needs Improvement

Intercepting and Tracking DME Arcs (based on aircraft equipment) _____ ☐ _____ ☐
VOR Approaches _____ ☐ _____ ☐
Missed Approach Procedures _____ ☐ _____ ☐

Introduce:

Precision Approach (PA) Procedures _____ ☐ _____ ☐
ILS Approaches _____ ☐ _____ ☐
Front and Back Course Localizer Approaches _____ ☐ _____ ☐

Completion Standards:

- ☐ The student should exhibit knowledge of front and back course localizer approach procedures while maintaining specific descent rates and altitudes.
- ☐ During ILS approaches, the student should demonstrate localizer tracking, intercepting and maintaining the glide slope, and using power and attitude changes to control airspeed and descent rates.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating

Flight Lesson 21

Leading Edge Aviation
Version 2012

Lesson Objective:

- Review full panel instrument approach procedures for precision and non-precision approaches.
- Introduce the student to the procedure for an approach with a loss of the primary flight instrument indicators.
- Introduce the student to no-gyro radar vectoring and approach procedures.

Review:

	Satisfactory	Needs Improvement
VOR Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
GPS Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
NDB Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
ILS Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
Localizer Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
Landing From a Straight-In or Circling Approach Procedure _____	<input type="checkbox"/>	<input type="checkbox"/>
Intercepting and Tracking DME Arcs (based of aircraft equipment) _____	<input type="checkbox"/>	<input type="checkbox"/>
Visual Descent Point _____	<input type="checkbox"/>	<input type="checkbox"/>
Land and Hold Short Operations _____	<input type="checkbox"/>	<input type="checkbox"/>

Introduce:

Approaches with Loss of Primary Flight Instrument Indications _____	<input type="checkbox"/>	<input type="checkbox"/>
Approach with Loss of Primary Flight Instrument Indicators _____	<input type="checkbox"/>	<input type="checkbox"/>
No-Gyro Radar Vectoring and Approach Procedures _____	<input type="checkbox"/>	<input type="checkbox"/>
Partial Panel Non-Precision Approach Procedures _____	<input type="checkbox"/>	<input type="checkbox"/>
Partial Panel Precision Approach Procedures _____	<input type="checkbox"/>	<input type="checkbox"/>
Missed Approach Procedure with Loss of Primary Flight Instrument Indicators _____	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ During ILS approaches, the student should demonstrate accurate localizer interception and tracking and make a transition to the glide slope at the correct point.
- ☐ The glide slope and localizer should be maintained with no more than three quarter-scale needle deflection.
- ☐ During the non-precision approaches, the student should maintain an altitude ± 200 feet on the initial and intermediate approach segments.
- ☐ On the final approach segment, the student should maintain an altitude that is not more than 100 feet above the MDA.
- ☐ The student will exhibit understanding of the procedures used to perform no-gyro radar vectoring and approaches and partial panel approach and missed approach procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating Flight Lesson 22

Leading Edge Aviation
Version 2012

Lesson Objective:

- The student should review instrument approach procedures as well as holding pattern entries and procedures in preparation for the stage exam.

Review:	Satisfactory	Needs Improvement
VOR Holding _____	<input type="checkbox"/>	<input type="checkbox"/>
GPS Holding _____	<input type="checkbox"/>	<input type="checkbox"/>
NDB Holding _____	<input type="checkbox"/>	<input type="checkbox"/>
Localizer Holding _____	<input type="checkbox"/>	<input type="checkbox"/>
VOR, ILS, NDB Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
VOR Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
GPS Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
NDB Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
ILS Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
Localizer Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>
Missed Approach Procedure _____	<input type="checkbox"/>	<input type="checkbox"/>
Approach with Loss of Primary Flight Instrument Indicators _____	<input type="checkbox"/>	<input type="checkbox"/>
No-Gyro Radar Vectoring and Approach Procedures _____	<input type="checkbox"/>	<input type="checkbox"/>
Partial Panel Non-Precision and Precision Approaches _____	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ The student will demonstrate proficiency in all holding and approach procedures in preparation for the Stage II Check.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____,Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage II - Instrument Rating

Flight Lesson 23

Leading Edge Aviation

Version 2012

Stage II Check

Lesson Objective:

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student's proficiency in the proper execution of holding patterns and instrument approach procedures.

Review:

Satisfactory

Needs Improvement

VOR Holding _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
GPS Holding _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
NDB Holding _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Localizer Holding _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Intersection and DME Holding _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
VOR Approaches _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
GPS Approaches _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
NDB Approaches _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
ILS Approaches _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Localizer Approaches _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Approach Procedures to Circling Landing Minimums _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Missed Approach Procedures _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Approach with Loss of Primary Flight Instrument Indicators _____	<input type="checkbox"/>	_____ <input type="checkbox"/>
Land and Hold Short Operations _____	<input type="checkbox"/>	_____ <input type="checkbox"/>

Completion Standards:

- ☐ The student should demonstrate instrument pilot proficiency, as outlined in the current FAA Instrument Rating Practical Test Standards, in each of the listed procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage III - Instrument Rating

Flight Lesson 24

Leading Edge Aviation

Version 2012

Lesson Objective:

- The student should be introduced to IFR cross-country procedures by conducting an IFR cross-country over 50 nautical miles from the original point of departure with an emphasis on planning and departure procedures.
- The student should develop an understanding of the appropriate emergency procedures for enroute IFR operations.

Review:

Satisfactory

Needs Improvement

VOR Approaches (As Needed)	<input type="checkbox"/>	<input type="checkbox"/>
GPS Approaches (As Needed)	<input type="checkbox"/>	<input type="checkbox"/>
NDB Approaches (As Needed)	<input type="checkbox"/>	<input type="checkbox"/>
ILS Approaches (As Needed)	<input type="checkbox"/>	<input type="checkbox"/>
Localizer Approaches (As Needed)	<input type="checkbox"/>	<input type="checkbox"/>
Missed Approach Procedures	<input type="checkbox"/>	<input type="checkbox"/>
Partial Panel Approaches	<input type="checkbox"/>	<input type="checkbox"/>

Introduce:

IFR Cross-Country Flight Planning

Weather Information Related to IFR Cross-Country Flight	<input type="checkbox"/>	<input type="checkbox"/>
Aircraft Performance, Limitations, and Systems Related to IFR Cross Country	<input type="checkbox"/>	<input type="checkbox"/>
Enroute Chart Interpretation	<input type="checkbox"/>	<input type="checkbox"/>
Navigation Log and Flight Plan Completion	<input type="checkbox"/>	<input type="checkbox"/>
Filing an IFR Flight Plan	<input type="checkbox"/>	<input type="checkbox"/>

ATC Clearance

Clearance Copying and Readback	<input type="checkbox"/>	<input type="checkbox"/>
Departure Procedures and Clearances	<input type="checkbox"/>	<input type="checkbox"/>
Use of SIDs and ODPs	<input type="checkbox"/>	<input type="checkbox"/>

IFR Cross-Country Flight

VOR Enroute Navigation	<input type="checkbox"/>	<input type="checkbox"/>
GPS Enroute Navigation (based on aircraft equipment)	<input type="checkbox"/>	<input type="checkbox"/>
Calculating ETEs and ETAs	<input type="checkbox"/>	<input type="checkbox"/>
Use of Radar	<input type="checkbox"/>	<input type="checkbox"/>
Radio Communications	<input type="checkbox"/>	<input type="checkbox"/>
Enroute Procedures and Clearances	<input type="checkbox"/>	<input type="checkbox"/>
Arrival Procedures and Clearances	<input type="checkbox"/>	<input type="checkbox"/>
Use of Standard Terminal Arrivals (STARs)	<input type="checkbox"/>	<input type="checkbox"/>
Holding	<input type="checkbox"/>	<input type="checkbox"/>
Canceling an IFR Flight Plan	<input type="checkbox"/>	<input type="checkbox"/>
Single-Pilot-Resource Management	<input type="checkbox"/>	<input type="checkbox"/>
Aeronautical Decision Making	<input type="checkbox"/>	<input type="checkbox"/>

Simulated Emergency Procedures

Loss of Communications	<input type="checkbox"/>	<input type="checkbox"/>
Loss of Primary Flight Instrument Indicators	<input type="checkbox"/>	<input type="checkbox"/>
Partial Panel Flight	<input type="checkbox"/>	<input type="checkbox"/>
Systems and Equipment Malfunctions	<input type="checkbox"/>	<input type="checkbox"/>
Airframe and Powerplant Icing	<input type="checkbox"/>	<input type="checkbox"/>
Turbulence	<input type="checkbox"/>	<input type="checkbox"/>
Diversion	<input type="checkbox"/>	<input type="checkbox"/>
Low Fuel Supply	<input type="checkbox"/>	<input type="checkbox"/>
Engine Failure	<input type="checkbox"/>	<input type="checkbox"/>

Completion Standards:

- ☐ The student will exhibit knowledge of the procedures involved in cross-country planning, filing IFR flight plans, and obtaining IFR clearances.
- ☐ The student will demonstrate a basic understanding of the various emergency procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage III - Instrument Rating

Flight Lesson 25

Leading Edge Aviation
Version 2012

Lesson Objective:

- Perform an IFR cross-country over 50 nautical miles from the original point of departure, becoming familiar with IFR flight planning and IFR departure, enroute, and arrival procedures.
- Review the appropriate emergency procedures for enroute IFR operations.

Review:

Satisfactory

Needs Improvement

IFR Cross-Country Flight Planning

Weather Information Related to IFR Cross-Country Flight _____ ☐ _____ ☐

Aircraft Performance, Limitations, and Systems Related to IFR Cross Country _____ ☐ _____ ☐

Enroute Chart Interpretation _____ ☐ _____ ☐

Navigation Log and Flight Plan Completion _____ ☐ _____ ☐

Filing an IFR Flight Plan _____ ☐ _____ ☐

ATC Clearance

Clearance Copying and Readback _____ ☐ _____ ☐

Departure Procedures and Clearances _____ ☐ _____ ☐

Use of SIDs and ODPs _____ ☐ _____ ☐

IFR Cross-Country Flight

VOR Enroute Navigation _____ ☐ _____ ☐

GPS Enroute Navigation (based on aircraft equipment) _____ ☐ _____ ☐

Calculating ETEs and ETAs _____ ☐ _____ ☐

Use of Radar _____ ☐ _____ ☐

Radio Communications _____ ☐ _____ ☐

Enroute Procedures and Clearances _____ ☐ _____ ☐

Arrival Procedures and Clearances _____ ☐ _____ ☐

Use of Standard Terminal Arrivals (STARs) _____ ☐ _____ ☐

Holding _____ ☐ _____ ☐

Canceling an IFR Flight Plan _____ ☐ _____ ☐

Single-Pilot-Resource Management _____ ☐ _____ ☐

Aeronautical Decision Making _____ ☐ _____ ☐

Approach Procedures

VOR Approaches (As Needed) _____ ☐ _____ ☐

GPS Approaches (As Needed) _____ ☐ _____ ☐

NDB Approaches (As Needed) _____ ☐ _____ ☐

ILS Approaches (As Needed) _____ ☐ _____ ☐

Localizer Approaches (As Needed) _____ ☐ _____ ☐

Missed Approach Procedures _____ ☐ _____ ☐

Partial Panel Approaches _____ ☐ _____ ☐

Simulated Emergency Procedures

Loss of Communications _____ ☐ _____ ☐

Loss of Primary Flight Instrument Indicators _____ ☐ _____ ☐

Partial Panel Flight _____ ☐ _____ ☐

Systems and Equipment Malfunctions _____ ☐ _____ ☐

Airframe and Powerplant Icing _____ ☐ _____ ☐

Turbulence _____ ☐ _____ ☐

Diversion _____ ☐ _____ ☐

Low Fuel Supply _____ ☐ _____ ☐

Engine Failure _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will exhibit knowledge of the procedures involved in cross-country planning, filing IFR flight plans, and obtaining IFR clearances.
- ☐ The student will demonstrate a basic understanding of the various emergency procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage III - Instrument Rating

Flight Lesson 26

Leading Edge Aviation

Version 2012

Lesson Objective:

- The student will continue to learn how to accurately plan and conduct an IFR cross-country flight and become more familiar with IFR departure, enroute, and arrival procedures.

NOTE: the flight is designed to meet the cross-country requirements stated in Part 141, Appendix C. The flight must be conducted under IFR in the category and class of airplane for which the course is approved and must be at least 250 nautical miles in length along airways or ATC-directed routing. One leg of the flight must be at least a straight line distance of 100 nautical miles between airports. the student must perform an instrument approach at each airport and perform a minimum of three different types of approaches using navigation systems.

Review:

Satisfactory

Needs Improvement

IFR Cross-Country Flight Planning

Weather Information Related to IFR Cross-Country Flight _____ ☐ _____ ☐

Aircraft Performance, Limitations, and Systems Related to IFR Cross Country _____ ☐ _____ ☐

Enroute Chart Interpretation _____ ☐ _____ ☐

Navigation Log and Flight Plan Completion _____ ☐ _____ ☐

Filing an IFR Flight Plan _____ ☐ _____ ☐

ATC Clearance

Clearance Copying and Readback _____ ☐ _____ ☐

Departure Procedures and Clearances _____ ☐ _____ ☐

Use of SIDs and ODPs _____ ☐ _____ ☐

IFR Cross-Country Flight

VOR Enroute Navigation _____ ☐ _____ ☐

GPS Enroute Navigation (based on aircraft equipment) _____ ☐ _____ ☐

Calculating ETes and ETAs _____ ☐ _____ ☐

Use of Radar _____ ☐ _____ ☐

Radio Communications _____ ☐ _____ ☐

Enroute Procedures and Clearances _____ ☐ _____ ☐

Arrival Procedures and Clearances _____ ☐ _____ ☐

Use of Standard Terminal Arrivals (STARs) _____ ☐ _____ ☐

Holding _____ ☐ _____ ☐

Canceling an IFR Flight Plan _____ ☐ _____ ☐

Single-Pilot-Resource Management _____ ☐ _____ ☐

Aeronautical Decision Making _____ ☐ _____ ☐

Approach Procedures

VOR Approaches (As Needed) _____ ☐ _____ ☐

GPS Approaches (As Needed) _____ ☐ _____ ☐

NDB Approaches (As Needed) _____ ☐ _____ ☐

ILS Approaches (As Needed) _____ ☐ _____ ☐

Localizer Approaches (As Needed) _____ ☐ _____ ☐

Missed Approach Procedures _____ ☐ _____ ☐

Partial Panel Approaches _____ ☐ _____ ☐

Simulated Emergency Procedures

Loss of Communications _____ ☐ _____ ☐

Loss of Primary Flight Instrument Indicators _____ ☐ _____ ☐

Partial Panel Flight _____ ☐ _____ ☐

Systems and Equipment Malfunctions _____ ☐ _____ ☐

Airframe and Powerplant Icing _____ ☐ _____ ☐

Turbulence _____ ☐ _____ ☐

Diversion _____ ☐ _____ ☐

Low Fuel Supply _____ ☐ _____ ☐

Engine Failure _____ ☐ _____ ☐

Continued

Completion Standards:

- ☐ At the completion of this flight, the student should be proficient in cross-country operations, approach procedures, and simulated emergency procedures appropriate to the aircraft to be used for the practical test.
- ☐ The student should have command of the airplane at all times during the flight, exercise sound judgement, ;and accurately comply with ATC procedures and clearances.

Pre____, Post____, PIC____, Dual____, Inst. _____, XC____, Solo____, Night____,Day Land____, Night Land____

Aircraft Tail #_____

Instructor_____

Date_____

Student_____

Date_____

Stage III - Instrument Rating

Flight Lesson 27

Leading Edge Aviation
Version 2012

Lesson Objective:

- Increase student proficiency in planning and conducting all phases of the IFR cross-country flight in preparation for the Stage III Check.
- The student should take the appropriate actions and perform the correct procedures to manage emergency situations.
- Demonstrate competency in effective resource management and decision making skills for IFR cross-country operations.

Review:

Satisfactory

Needs Improvement

IFR Cross-Country Flight Planning

Weather Information Related to IFR Cross-Country Flight _____ ☐ _____ ☐

Aircraft Performance, Limitations, and Systems Related to IFR Cross Country _____ ☐ _____ ☐

Enroute Chart Interpretation _____ ☐ _____ ☐

Navigation Log and Flight Plan Completion _____ ☐ _____ ☐

Filing an IFR Flight Plan _____ ☐ _____ ☐

ATC Clearance

Clearance Copying and Readback _____ ☐ _____ ☐

Departure Procedures and Clearances _____ ☐ _____ ☐

Use of SIDs and ODPs _____ ☐ _____ ☐

IFR Cross-Country Flight

VOR Enroute Navigation _____ ☐ _____ ☐

GPS Enroute Navigation (based on aircraft equipment) _____ ☐ _____ ☐

Calculating ETEs and ETAs _____ ☐ _____ ☐

Use of Radar _____ ☐ _____ ☐

Radio Communications _____ ☐ _____ ☐

Enroute Procedures and Clearances _____ ☐ _____ ☐

Arrival Procedures and Clearances _____ ☐ _____ ☐

Use of Standard Terminal Arrivals (STARs) _____ ☐ _____ ☐

Holding _____ ☐ _____ ☐

Canceling an IFR Flight Plan _____ ☐ _____ ☐

Single-Pilot-Resource Management _____ ☐ _____ ☐

Aeronautical Decision Making _____ ☐ _____ ☐

Approach Procedures

VOR Approaches (As Needed) _____ ☐ _____ ☐

GPS Approaches (As Needed) _____ ☐ _____ ☐

NDB Approaches (As Needed) _____ ☐ _____ ☐

ILS Approaches (As Needed) _____ ☐ _____ ☐

Localizer Approaches (As Needed) _____ ☐ _____ ☐

Missed Approach Procedures _____ ☐ _____ ☐

Partial Panel Approaches _____ ☐ _____ ☐

Simulated Emergency Procedures

Loss of Communications _____ ☐ _____ ☐

Loss of Primary Flight Instrument Indicators _____ ☐ _____ ☐

Partial Panel Flight _____ ☐ _____ ☐

Systems and Equipment Malfunctions _____ ☐ _____ ☐

Airframe and Powerplant Icing _____ ☐ _____ ☐

Turbulence _____ ☐ _____ ☐

Diversion _____ ☐ _____ ☐

Low Fuel Supply _____ ☐ _____ ☐

Engine Failure _____ ☐ _____ ☐

Completion Standards:

- ☐ The student should demonstrate instrument pilot knowledge and proficiency, as outlined in the current FAA Instrument Rating Practical Test Standards, in each of the listed procedures.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage III - Instrument Rating

Flight Lesson 28

Stage III Check

Leading Edge Aviation
Version 2012

Lesson Objective:

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student's IFR cross-country skills. This is the final stage check in preparation for the instrument rating practical test.

Review:

Satisfactory

Needs Improvement

IFR Cross-Country Flight Planning

Weather Information Related to IFR Cross-Country Flight ☐ ☐

Aircraft Performance, Limitations, and Systems Related to IFR Cross Country ☐ ☐

Enroute Chart Interpretation ☐ ☐

Navigation Log and Flight Plan Completion ☐ ☐

Filing an IFR Flight Plan ☐ ☐

ATC Clearance

Clearance Copying and Readback ☐ ☐

Departure Procedures and Clearances ☐ ☐

Use of SIDs and ODPs ☐ ☐

IFR Cross-Country Flight

VOR and GPS Enroute Navigation (based on aircraft equipment) ☐ ☐

Enroute Procedures and Clearances ☐ ☐

Arrival Procedures and Clearances ☐ ☐

Holding ☐ ☐

Resource Use ☐ ☐

Aeronautical Decision Making ☐ ☐

Approach Procedures

Nonprecision Approaches ☐ ☐

ILS Approaches ☐ ☐

Missed Approach Procedures ☐ ☐

Partial Panel Approaches ☐ ☐

Simulated Emergency Procedures

Loss of Communications ☐ ☐

Loss of Primary Flight Instrument Indicators ☐ ☐

Partial Panel Flight ☐ ☐

Systems and Equipment Malfunctions ☐ ☐

Airframe and Powerplant Icing ☐ ☐

Turbulence ☐ ☐

Diversion ☐ ☐

Low Fuel Supply ☐ ☐

Engine Failure ☐ ☐

Completion Standards:

- ☐ The student should demonstrate complete understanding of all IFR cross-country procedures.
- ☐ The student will perform all IFR operations and simulated emergency procedures at the instrument pilot proficiency level, as outlined in the current FAA Instrument Rating Practical Test Standards.

Pre_____, Post_____, PIC_____, Dual_____, Inst. _____, XC_____, Solo_____, Night_____, Day Land_____, Night Land_____

Aircraft Tail # _____

Instructor _____

Date _____

Student _____

Date _____

Stage III - Instrument Rating

Flight Lesson 29

End of Course Flight Check For Course Completion

Leading Edge Aviation
Version 2012

Lesson Objective:

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student's IFR skills. This is the End-of-Course Flight Check in preparation for the Instrument Rating Practical Test.

Review:

Satisfactory

Needs Improvement

Full Panel Instrument

Steep Turns _____ ☐ _____ ☐

Full and Partial Panel Instrument

Straight-and-Level Flight _____ ☐ _____ ☐

Constant Rate Climbs and Descents _____ ☐ _____ ☐

Constant Airspeed Climbs and Descents _____ ☐ _____ ☐

Standard-Rate Turns _____ ☐ _____ ☐

Recovery from Unusual Flight Attitudes _____ ☐ _____ ☐

Timed Turns to Magnetic Compass Headings _____ ☐ _____ ☐

Magnetic Compass Turns _____ ☐ _____ ☐

Power-Off Stalls _____ ☐ _____ ☐

Power-On Stalls _____ ☐ _____ ☐

Instrument Navigation

VOR Navigation _____ ☐ _____ ☐

GPS Navigation _____ ☐ _____ ☐

NDB Navigation _____ ☐ _____ ☐

Localizer Navigation _____ ☐ _____ ☐

Holding

VOR Holding _____ ☐ _____ ☐

GPS Holding _____ ☐ _____ ☐

NDB Holding _____ ☐ _____ ☐

Localizer Holding _____ ☐ _____ ☐

Intersection and DME Holding _____ ☐ _____ ☐

Approach Procedures

Non-precision Approaches _____ ☐ _____ ☐

ILS Approaches _____ ☐ _____ ☐

Missed Approach Procedures _____ ☐ _____ ☐

Partial Panel Approaches _____ ☐ _____ ☐

IFR Cross Country Procedures

IFR Cross-Country Flight Planning _____ ☐ _____ ☐

ATC Clearance _____ ☐ _____ ☐

IFR Cross-Country Flight Procedures _____ ☐ _____ ☐

Simulated Emergency Procedures

Loss of Communications _____ ☐ _____ ☐

Loss of Primary Flight Instrument Indicators _____ ☐ _____ ☐

Partial Panel Flight _____ ☐ _____ ☐

Systems and Equipment Malfunctions _____ ☐ _____ ☐

Airframe and Powerplant Icing _____ ☐ _____ ☐

Turbulence _____ ☐ _____ ☐

Low Fuel Supply _____ ☐ _____ ☐

Diversion _____ ☐ _____ ☐

Completion Standards:

- ☐ The student will perform all IFR and simulated emergency procedures at the instrument pilot proficiency level, as outlined in the current FAA Instrument Rating Practical Test Standards.

Pre____, Post____, PIC____, Dual____, Inst.____, XC____, Solo____, Night____, Day Land____, Night Land____

Aircraft Tail #_____

Instructor_____

Date_____

Student_____

Date_____