

NORTH AERO - PRIVATE PILOT 5.1

Phase 1

Fundamentals and scenarios

Lessons 1 - 11

All 11 Phase 1 lesson plans as fillable instructor records:
one check per step, ACS and Part 61 references, and a single
debrief and sign-off per lesson.

Lesson 01. Introduction to Flight

Pre-Flight: 1.5 hr | Flight Time: 1 hr | Post-Flight: 0.5 hr

STUDENT	DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe	Ground only
FLIGHT TIME	GROUND TIME		

OBJECTIVE

First lesson familiarization with airplane, operating procedures, sensations of flight, local area. Student gets familiar with flight controls and cockpit layout.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Airplane familiarization - Ground

PA.I.G PA.II.B 61.87(d)(1)

a. Preflight Inspection

PA.II.A

b. Cockpit familiarization

PA.I.G

c. Preflight Planning (PAVE)

PA.I.H PA.I.C PA.I.E PA.I.F PA.I.A PA.I.B

IMSAFE

Aircraft Airworthiness

Weather Briefing

NOTAMs and TFRs

Weight and Balance

Performance Data

Airport Information and Charts

Safety Briefing

Objectives and tasks outlined

2. Starting the engine - Demonstration

PA.II.C 61.87(d)(1)

3. Radio communications - Do

PA.III.A 61.87(d)(1)

4. Taxiing - Demonstration or directed performance

PA.II.D 61.87(d)(2)

5. Pre Takeoff Check - Demonstration with student checklist participation

PA.II.F 61.87(d)(2)

6. Takeoff, traffic pattern, and climbout - Demonstration

PA.IV.A PA.III.B 61.87(d)(3)(5)(6)

7. Familiarization flight - Demonstration and performance by student

PA.VIII.A 61.87(d)(4)

a. Control effects and usage

b. Flight area familiarization

c. Straight and level flight

- d. Pitch and bank control
 - e. Approach, traffic pattern, landing, and parking
- PA.IV.B PA.XII.A

8. Postflight discussion - Student Guided

9. Preview of next lesson

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 02. Basic Maneuvers: Slow Flight, Stalls, Steep Turns Intro

Pre-Flight: 1 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT	DATE	INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe
FLIGHT TIME	GROUND TIME	Ground only

OBJECTIVE

Review of first lesson and introduction to PTS maneuvers required before solo. Slow flight, steep turns, and approach stalls introduced. Maneuvers require division of attention.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Go over objectives and review procedures

PA.I.H PA.I.A PA.I.B

2. Student completes preflight planning - PAVE - Directed Performance

PA.I.H 61.87(d)(1)

3. Student completes walk around - Directed Performance

PA.II.A 61.87(d)(1)

4. Starting engine - Directed Performance and Practice

PA.II.C 61.87(d)(1)

5. Radio communication procedures - Do

PA.III.A 61.87(d)(1)

6. Taxiing - Do

PA.II.D 61.87(d)(2)

7. Pre takeoff check - Directed performance

PA.II.F 61.87(d)(2)

8. Takeoff and traffic pattern - Directed performance

PA.IV.A PA.III.B 61.87(d)(3)(6)

9. Climbing turns - Directed performance

PA.VIII.B 61.87(d)(5)

10. Straight and level - Directed performance

PA.VIII.A 61.87(d)(4)

11. Medium turns - Demonstration and directed performance

61.87(d)(4)

12. Slow Flight - Demonstration and directed performance

PA.VII.A 61.87(d)(9)

13. Power off stalls - Demonstration and directed performance

PA.VII.B 61.87(d)(10)

14. Steep turns - Demonstration only

PA.V.A

15. Confidence maneuvers - Demonstration of aircraft stability and rudder usage

16. Descents and gliding turns - Demonstration and directed performance

PA.VIII.C 61.87(d)(8)

17. Approach, traffic pattern, and landing - Demonstration and directed performance

PA.IV.B 61.87(d)(3)

18. Postflight Discussion

19. Preview of next lesson

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 03. Four Fundamentals and Coordination

Pre-Flight: 1 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT	DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe	Ground only
FLIGHT TIME	GROUND TIME		

OBJECTIVE

Student should attain reasonable proficiency in four basic flight maneuvers, perform without assistance slow flight, power-off stalls, and simple coordination exercises. Student responsible for preflight, starting, radio, taxiing, parking without direction hereafter.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Student outlines objectives and procedures

PA.I.H PA.I.A PA.I.B

2. Student completes preflight planning - PAVE - Do

PA.I.H 61.87(d)(1)

3. Pre flight inspection - Do

PA.II.A 61.87(d)(1)

4. Starting engine - Do

PA.II.C 61.87(d)(1)

5. Radio communication procedures - Do

PA.III.A 61.87(d)(1)

6. Taxiing - Do

PA.II.D 61.87(d)(2)

7. Pre takeoff check - Practice

PA.II.F 61.87(d)(2)

8. Takeoff and traffic pattern - Practice

PA.IV.A PA.III.B 61.87(d)(3)(6)

9. Climbs and Climbing turns - Practice

PA.VIII.B 61.87(d)(5)

10. Level off from climbs and descents - Do

61.87(d)(4)(8)

11. Straight and level with speed changes - Practice

PA.VIII.A 61.87(d)(4)(9)

12. Medium turns - Practice

61.87(d)(4)

13. Slow Flight - Practice

PA.VII.A 61.87(d)(9)

14. Power off stalls - Practice

PA.VII.B 61.87(d)(10)

15. Coordination exercises (Dutch Roll) - Demonstration and directed performance

16. Descents and gliding turns - Do

PA.VIII.C 61.87(d)(8)

17. Approach, traffic pattern, and landing - Directed performance

PA.IV.B 61.87(d)(3)

18. Postflight Discussion - Do

19. Preview of next lesson - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 04. Stall Recovery, Ground Reference, Instrument Intro, Go-Around Intro

Pre-Flight: 1 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT	DATE	INSTRUCTOR
---------	------	------------

AIRCRAFT	N41459 Warrior	N1302B Luscombe	Ground only
----------	----------------	-----------------	-------------

FLIGHT TIME

GROUND TIME

OBJECTIVE

Student should recognize and recover smoothly from stalls without direction, fly prescribed ground reference patterns, execute traffic pattern and landing approach with direction. Introduction to go-arounds and emergency descent concept.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Student directs

PA.I.H PA.I.A PA.I.B

2. Student completes preflight planning - PAVE - Do

PA.I.H 61.87(d)(1)

3. Pre flight inspection - Do

PA.II.A 61.87(d)(1)

4. Starting engine - Do

PA.II.C 61.87(d)(1)

5. Radio communication procedures - Do

PA.III.A 61.87(d)(1)

6. Taxiing - Do

PA.II.D 61.87(d)(2)

7. Pre takeoff check - Do

PA.II.F 61.87(d)(2)

8. Takeoff and traffic pattern - Do

PA.IV.A PA.III.B 61.87(d)(3)(6)

9. Climbs and climbing turns - Practice

PA.VIII.B 61.87(d)(5)

10. Straight and level - Practice

PA.VIII.A 61.87(d)(4)

11. Slow Flight - Practice

PA.VII.A 61.87(d)(9)

12. Power off stalls - Practice

PA.VII.B 61.87(d)(10)

13. Instrument flying

PA.VIII.D PA.VIII.C

- Turns to headings (Hood work) - Directed performance
- Descents and level offs (Hood work) - Directed performance

14. Ground reference maneuvers - Demonstrated and directed performance

PA.V.B 61.87(d)(12)

- a. Following road or river - Directed performance
- b. S turns across a road - Directed performance
- c. Rectangular course - Directed performance

15. Go-around - Demonstration and directed performance

PA.IV.N 61.87(d)(15)

16. Emergency descent introduction - Demonstration

PA.IX.A

17. Elementary forced landing - Demonstration and directed performance

PA.IX.B 61.87(d)(13)

18. Approach, traffic pattern, and landing - Directed performance

PA.IV.B 61.87(d)(3)

19. Postflight Discussion

20. Preview of next lesson

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart
- View Limiting Device (Hood)

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 05. Emergency Procedures and Instrument Flying

Pre-Flight: 1.5 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT		DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe		Ground only
	FLIGHT TIME	GROUND TIME		

OBJECTIVE

Student should recognize and recover smoothly from stalls, fly ground reference maneuvers, fly on instruments under hood at another airport. Emergency procedures introduced including emergency descent, emergency equipment/survival gear, and radar services (flight following).

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Student directs

PA.I.H PA.I.A PA.I.B

2. Student completes preflight planning - Do

PA.I.H 61.87(d)(1)

3. Pre flight inspection - Do

PA.II.A 61.87(d)(1)

4. Radar services and emergencies

PA.VIII.F PA.IX.C

5. Instrument flying review - Practice

PA.VIII.D

6. Ground reference review - Do

PA.V.B

7. Emergency procedures practice - Practice

PA.IX.B PA.IX.C

8. Postflight Discussion - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Aircraft Checklist
- Sectional Chart
- View Limiting Device (Hood)

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 06. Maneuver Review and Emergency Procedures

Pre-Flight: 1 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT		DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe		Ground only
	FLIGHT TIME	GROUND TIME		

OBJECTIVE

Review of flight maneuvers and procedures in preparation for takeoff and landing work. Reasonable proficiency in coordination, airspeed control, and ground reference should be achieved. Emergency procedures reinforced.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Student directs

PA.I.H PA.I.A PA.I.B

2. Comprehensive maneuvers review - Do

PA.IV.A PA.VII.A

3. Emergency procedures review - Practice

PA.IX.B PA.IX.C

4. Approach and landing - Directed performance

PA.IV.B

5. Postflight Discussion - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Emergency Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 07. Takeoffs and Landings, Steep Turns, Stalls

Pre-Flight: 1 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT	DATE	INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe
FLIGHT TIME	GROUND TIME	Ground only

OBJECTIVE

Concentrated practice of takeoffs and landings. Steep turns and accelerated stalls introduced. Go-arounds practiced from each landing approach. Student should make directed takeoffs and landings without assistance on controls.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Student directs

PA.I.H PA.I.A PA.I.B

2. Takeoffs and landings practice - Practice

PA.IV.A PA.IV.B

3. Go-arounds practice - Practice

PA.IV.N

4. Steep turns and stalls - Directed performance

PA.V.A PA.VII.C

5. Emergency descent review - Practice

PA.IX.A

6. Postflight Discussion - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 08. Crosswind, Slips, Soft Field, Go-Arounds

Pre-Flight: 1 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT		DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe		Ground only
FLIGHT TIME		GROUND TIME		

OBJECTIVE

Crosswind takeoffs and landings added, slips introduced. Student should make unassisted takeoffs and landings and fly accurate traffic pattern. Go-arounds practiced from multiple scenarios.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight discussion - Student directs

PA.I.H PA.I.A PA.I.B

2. Crosswind operations - Demonstration and practice

PA.IV.A PA.IV.B

3. Slips and soft field work - Do

PA.IV.M PA.IV.C

4. Multiple go-around scenarios - Practice

PA.IV.N

5. Postflight Discussion - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 09. The Mumble (Scenario: Lost Communications)

Pre-Flight: 1.5 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT	DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe	Ground only
FLIGHT TIME	GROUND TIME		

OBJECTIVE

Scenario-based lesson testing decision making in evaluating risks associated with aircraft communications. Student departs to practice area, requests flight following, practices assigned maneuvers, then encounters alternator failure. Battery dies before pattern entry at towered airport. Student must exercise prescribed procedures for lost communications entry into Class Delta.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight briefing on scenario - Ground training

PA.I.G PA.I.H PA.IX.C PA.I.A PA.I.B

2. Departure and flight following - Do

PA.VIII.F

3. Maneuvers practice and emergency simulation - Practice

61.87(d)(4)(9)

4. Alternator failure and electrical management - Directed performance

PA.IX.C

5. Lost communications procedures - Directed performance

PA.III.A

6. Class D entry without radio - Directed performance

61.87(d)(6)

7. Approach and landing - Directed performance

PA.IV.B

8. Postflight ADM discussion - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 10. When the Fan Stops (Scenario: Engine Failure on Departure)

Pre-Flight: 1.5 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT		DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe		Ground only
FLIGHT TIME		GROUND TIME		

OBJECTIVE

Scenario-based lesson focused on engine failure awareness during departure and traffic pattern operations. Student learns the physics of G-loading and stall speed (at 0G there is no stall speed, so pushing forward is essential), practices the CHORRD departure briefing, and executes multiple simulated engine failures at different positions in the traffic pattern. The impossible turn is addressed directly at altitude: student experiences why turning back below pattern altitude results in a stall/spin. Builds judgment for when landing ahead is the only survivable option.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Ground briefing: Pipistrel KSNS video, NTSB case review, CHORRD departure briefing, impossible turn geometry - Ground training

PA.IX.C.K1a PA.IX.C.K1b PA.I.H.K4

2. CHORRD departure briefing practice on the ramp before engine start - Directed performance

PA.I.H.R1 PA.I.H.R3

3. Departure and climb to practice area (minimum 3,000 ft AGL) - Do

PA.IV.A

4. G-loading and stall speed demonstration: instructor demonstrates that reducing G-load (pushing forward) lowers stall speed to near zero. At 0G there is no stall speed. At 2G the stall speed increases by 41%. Student experiences the difference. - Demonstrated

PA.V.A.K2d PA.I.F.K3

5. Impossible turn simulation at altitude: instructor pulls power, student attempts 180-degree turnback with 45-degree bank. Student observes altitude loss required. Repeat with 30-degree bank and compare. Teaching point: you cannot make it back below 500 ft AGL. - Directed performance

PA.IX.C.K1a PA.IX.C.K1b

6. Engine failure on upwind: instructor pulls power after takeoff at pattern altitude. Student pitches for best glide, identifies landing options ahead, executes ABCDE. No turn back. - Directed performance

PA.IX.C.K1a

7. Engine failure on crosswind: instructor pulls power on crosswind leg. Student evaluates options, considers wind, selects landing area. - Directed performance

PA.IX.C.K1a

8. Engine failure on downwind: instructor pulls power abeam the numbers. Student has altitude and options. May attempt modified pattern to runway. Judgment exercise. - Directed performance

PA.IX.C.K1a PA.IX.C.K1b

9. Engine failure on base/final: instructor pulls power on base or final. Student maintains glide speed, adjusts aim point, commits to landing. - Directed performance

PA.IX.C.K1a

10. Postflight ADM debrief: review each engine failure decision, discuss the Pipistrel video, reinforce CHORRD as habit - Do

PA.I.H.R1

ITEMS NEEDED FOR SUCCESS

- CHORRD Departure Briefing card
- Aircraft POH/AFM (glide performance data)
- KSNS airport diagram with surrounding terrain/field options
- Impossible turn altitude calculation worksheet (from Module 5)
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE

Lesson 11. The Real Pickle (Scenario: Diversion)

Pre-Flight: 1.5 hr | Flight Time: 1.5 hr | Post-Flight: 0.5 hr

STUDENT	DATE		INSTRUCTOR
AIRCRAFT	N41459 Warrior	N1302B Luscombe	Ground only
FLIGHT TIME	GROUND TIME		

OBJECTIVE

Scenario-based lesson testing decision making with weather, aircraft limitations, and personal limitations. Student departs to practice area, practices stalls and emergency procedures, returns to find home airport closed by weather. Must divert to unfamiliar airport choosing between grass strip (into wind) or strong crosswind on paved runway.

LESSON STEPS

Check each step as it is completed. Leave anything not done blank. Sign and date once at the bottom.

1. Preflight briefing on diversion scenario - Ground training

PA.I.H PA.I.C PA.VI.C PA.I.A PA.I.B

2. Departure and maneuvers - Practice

PA.VII.A PA.IX.B

3. Weather closure simulation - Directed performance

PA.VI.C

4. Diversion planning and navigation - Directed performance

PA.VI.A PA.VI.C

5. Unfamiliar airport entry and landing - Directed performance

PA.IV.B PA.IV.D

6. Postflight ADM discussion - Do

ITEMS NEEDED FOR SUCCESS

- Preflight planning documents
- Airport Diagram
- Frequency quick list
- Aircraft Checklist
- Sectional Chart

COMPLETION STANDARDS

Meet the objective above. Each step is complete when performed to the standard of the lesson.

DEBRIEF AND SIGN-OFF

What went well, what to work on next lesson.

Sign once for the whole lesson. Steps left unchecked above were not completed this session.

INSTRUCTOR SIGNATURE / INITIALS

DATE