Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 1: Introduction to Flight

Lesson Objectives

Familiarize student with the privileges, obligations and responsibilities of a private pilot. Introduce student to the airplane and preflight and postflight procedures, use of checklists and safety precautions. Familiarize student with the effect and use of flight controls, practice area and local airport.

Discussion/Review	
Completion of TSA required endorsement	Fitness/health for flight (I'M SAFE)
Positive exchange of flight controls	Ground safety
Training and course requirements	Airplane servicing
Required aircraft documents	Weather briefing basics
Introduce	
Preflight procedures	Use of trim
Normal takeoff and climb	Ground operations / communications
Use of checklists	Shallow / medium banked turns in both directions
Climbs and climbing turns	Engine starting and runup
Airplane systems and operations	Normal approach and landing
Level off	Taxiing
Equipment checks	Postflight procedures
Straight and level flight	Pre-takeoff checklist
Location of emergency equipment	
Completion Standards	
The student will display a basic understanding of aircraft syst procedures. The student will be familiar with the control syste ground and in the air.	ems and how they are used to maneuver the airplane on the
Lesson Complete	
PRNFC Instructor Signature	Date
Homework	
Prior to Lesson 2, Four Fundamentals of Flight:	
Pilot's Handbook of Aeronautical Knowledge	AIM
• Principles of Flight (Ch. 3)	• Sections 5-5-8; 8-1-6; 8-1-8
Airplane Flying Handbook	FAR
Ground Operations (Ch. 2)Basic Flight Maneuvers (Ch. 3)	• Sections 61.3; 61.23; 61.51(i); 61.57 subpart E; sections 91.203; 91.9

Patuxent River Navy Flying Club



Student:

Stage 1: Pre-Solo

Lesson 2: Four Fundamentals of Flight

Lesson Objectives

The student will develop skills and gain proficiency in performing the four basic flight maneuvers (straight-and-level, turns, climbs and descents). Introduce student to radio communication procedures and ground reference maneuvers.

Discussion/Review	
Preflight activities	Flight instruments and their purpose
Ground operations	Collision avoidance precautions
Ground communications	Training area and minimum altitudes
Weather factors	
Introduce	
Cockpit management	Turns to headings
Radio communications procedures	Descents and descending turns
Airport / runway markings / lighting Traffic pattern entry and departure procedures	Cruise descentTraffic pattern descentPower-off glide
Straight and level flight Climbs and climbing turns	Level off from climbs and descents Torque effects
CruiseBest rate of climb (Vy)Best angle of climb (Vx)	Normal approach and landings
Completion Standards	
The student will have knowledge of aircraft systems and the student will be familiar with the control systems and how the air. The student will be able to perform takeoffs with instruct	ey are used to maneuver the airplane on the ground and in the
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 3, Basic Instrument Maneuvers:	
Pilot's Handbook of Aeronautical Knowledge	Airplane Flying Handbook
 Principles of Flight (Ch. 3) Aerodynamics of Flight (Ch. 4) 	 Integrated Flight Instruction (Ch. 3, pg. 3)

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 3: Basic Instrument Maneuvers

Lesson Objectives

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Improve student's proficiency in the four fundamentals of flight a	and introduce student to basic instrument maneuvers.
Discussion/Review	
Collision-avoidance procedures	
Flight instruments and their purpose	
Introduce	
Taxiing in a crosswind	Straight, constant airspeed descent
Attitude instrument flying	Slow flight
Straight-and-level flight	Turns to a heading
Straight, constant airspeed climbs	
Completion Standards	
The student will be able to perform takeoffs with instructor assist the student displays an increased understanding and proficiency if familiar with the control usage necessary to maintain an altitude understands the basic instrument maneuvers.	in coordinated airplane control. The student should be within 250 feet during airspeed changes. The student
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 4, Slow Flight and Stalls:	
Pilot's Handbook of Aeronautical Knowledge	
 Aircraft Structure (Ch. 2) Aerodynamics of Flight (Ch. 3) Stalls (Ch. 4-22, 4-32) Airspeed (Ch. 8-2) 	
Airplane Flying Handbook	
• Slow Flight, Stalls and Spins (Ch. 4)	

Stage 1: Pre-Solo

Patuxent River Navy Flying Club

Student:



Lesson 4: Slow Flight and Stalls

Lesson Objectives

The student will review airspeed control maneuvers, demonstrate increased proficiency in performing slow flight, and be introduced to stalls from various flight conditions to increase understanding of airplane control during normal and critical flight conditions.

Discussion/Review	
Fundamentals of slow flight and stalls	
Spin awareness	
Introduce	
Flights at various airspeeds from cruise to slow flight	Power-off stalls recognition and recovery Power-on stalls recognition and recovery
Maneuvering during slow flight emphasizing correct use of rudder to negate increased adverse yaw at slow airspeeds	Descents with and without using high and low drag configuration
Completion Standards	
Student demonstrates correct communications and traffic patte start-up, taxi, pre-takeoff check, and postflight procedures with flight, indications of approaching stall, proper recovery proced heading, and airspeed at or near ACS standards.	nout instructor assistance. Displays understanding of slow
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 5, Emergency Procedures:	
Airplane Flying Handbook	
• Emergency Procedures (Ch. 16)	
Aeronautical Information Manual	
• Emergency Procedures (Ch. 6)	
Pilot's Operating Handbook	
Review emergency procedures and checklists	

Stage 1: Pre-Solo

Patuxent River Navy Flying Club

Student:



Lesson 5: Emergency Procedures

Lesson Objectives

The student will practice the maneuvers from the previous lesson to gain additional proficiency and demonstrate the ability to recognize and recover from imminent and full stalls. The student will also gain an understanding of emergency operations and an increased understanding of slow flight and stall recognition and recovery.

Discussion/Review	
Types of possible emergencies	Human factors and symptoms
Emergency procedures (checklists)	Emergency equipment and survival gear
Use of all available resources in an emergency situation	
Introduce	
Emergency approach and landing	Recovery from bouncing and ballooning during landing
Emergency descents	•
Systems and equipment malfunctions	Balked landings (go-arounds)
Engine failure in different segments of flight and aircraft configurations	
Completion Standards	
The student displays increased proficiency with control of airpla familiar with the procedures used during emergency approach at appropriate procedures for stall set-up and recovery and improve slow airspeed. The student performs landings with minimal instr	nd landing situations. The student also demonstrates ed performance with regard to maneuvering at critically
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 6, Steep Turns / Ground Reference Maneuvers:	
Airplane Flying Handbook	
 Ground Reference Maneuvers (Ch. 6) Performance Maneuvers (Ch. 9-1) 	

Patuxent River Navy Flying Club



Student:

Stage 1: Pre-Solo

Lesson 6: Steep Turns/Ground Reference Maneuvers

Lesson Objectives

The student will gain proficiency in ground reference maneuvers, steep turns and full stalls. Maneuvering at critically slow airspeeds is introduced by instrument reference.

slow anspects is introduced by instrument reference.	
Discussion/Review	
Fundamentals of ground reference maneuvers	
Introduce	
Steep turns (IR)	Maneuvering at critically slow airspeeds (IR)
Rectangular courses	Power-off stalls (full)
S-turns across a road	Power-on stalls (full)
Turns around a point	Wake turbulence avoidance
Completion Standards	
The student displays proper entry procedures and understands he of ground reference maneuvers. Demonstrates increased profice heading within ACS standards during straight and level flight.	1 0 01 0
Lesson Complete	<u> </u>
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 7, Slips/Crosswind Landings and Takeoffs:	
Airplane Flying Handbook	
 Crosswind Takeoff (Ch. 5, p.5) Crosswind Approach and Landing (Ch. 8) 	
Review previously assigned reading material	

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 7: Slips/Crosswind Landings & Takeoffs

Lesson Objectives

This lesson is a review of previous lessons in order for the student to gain proficiency in basic flight maneuvers and increase the student's comfort level with the airplane in various segments of flight. Additionally, crosswind takeoffs and landings are introduced so the student may begin to learn these procedures during varying wind conditions.

Discussion/Review	
Pilot-in-command (PIC) responsibility and	Power-on stall
authority	Steep turns
Elements of basic instrument maneuvers	Emergency approach and landings
Normal and crosswind takeoffs and landings	Ground reference maneuvers
Traffic pattern operations	Recovery from faulty approaches and landings
Radio phraseology	Go-arounds from a rejected landing, go-arounds
Maneuvering during slow flight	from final approach and from the landing flare
Power-off stall	in various configurations, including turns
	Wake turbulence avoidance
Introduce	
Forward slip to a landing	ATC light signals
Sideslip to a landing	Forced landing procedures initiated at take-off,
Crosswind takeoff and climb	during initial climb, cruise, descents, and in the landing pattern.
Crosswind approach and landings	randing pattern.
Completion Standards	
The student will initiate a timely recovery from full stalls in ta and make appropriate corrections in the traffic pattern; demon crosswind landings; and make sound judgments as to the necessity	astrate an understanding of how the slip is used to perform
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 8, Traffic Pattern Review:	Airplane Flying Handbook
AIM	• Airport Traffic Patterns (Ch. 7)
 Airport Operations (Section 4.3) 	

Patuxent River Navy Flying Club



Student:

Stage 1: Pre-Solo

Lesson 8: Traffic Pattern Review

Review Pilot's Operating Handbook

Lesson Objectives

This lesson is a review of material from previous lessons, with the goal to perfect traffic pattern operations and practice takeoffs and landings.

Discussion / Daviery
Discussion/Review
Traffic pattern operations
Radio phraseology
Introduce
Traffic pattern engine-out procedures
Controlled / uncontrolled field operations
Completion Standards
The student performs takeoffs and landings without assistance from instructor. Enters traffic pattern properly and maintains proper ground track, adjusting for traffic and wind. Shows awareness of surrounding traffic.
maintains proper ground track, adjusting for traffic and white. Shows awareness of surrounding traffic.
Lesson Complete
Lesson Complete
PRNFC Instructor Signature Date
PRNFC Instructor Signature Date Homework Assignment

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 9: Maneuvers Review

Lesson Objectives

During the lesson the student will practice the review maneuvers to gain proficiency.

During the lesson the student will practice the review manea	to gain pronoiciney.
Discussion/Review	
Weather information	Sideslips to a landing
Performance / limitations	Crosswind takeoff and climb
Aeromedical factors	Crosswind approach and landings
Go-arounds from a rejected landing	Forced landing procedures initiated at take-off,
Forward slips to landings	during initial climb, cruise, descents, and in the landing pattern
Introduce (demo only)	
Accelerated stall	Elevator trim stall
Cross-control stall	Secondary stall
Completion Standards	
The student will be able to fly the above maneuvers to the prand suggested methods to overcome deficiencies.	roficiency level prescribed by the ACS with instructor critique
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 10, Instrument Flight Maneuvers:	
Instrument Flying Handbook	
• Chapter 5	
Pilot's Handbook of Aeronautical Knowledge	
• Chapter 6 (discussion of inclinometers)	

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 10: Instrument Flight Maneuvers

Lesson Objectives

During this lesson, the student will practice instrument flight maneuvers, and takeoffs and landings in preparation for solo flight.

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Discussion/Review	
Straight-and-level flight (VR-IR)	Go-around from a rejected landing
Steep turns (VR-IR)	Forward slips to landing
Straight, constant airspeed descents (VR-IR)	Sideslips to a landing
Climbing and descending turns	Emergency approach and landing
Turns to headings (IR)	ATC light signals
Unusual attitude recovery (IR)	Forced landing procedures initiated at takeoff,
Crosswind takeoff and climb	during initial climb, cruise, descents, and in the landing pattern
Crosswind approach and landing	randing pattern
Completion Standards	
The student demonstrates increased skill in instrument scan a landings, and go-arounds without the instructor's assistance. Indicates thorough understanding of local airport and airspace Demonstrates mature PIC decision-making ability.	Demonstrates readiness for solo flight in the traffic pattern.
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 11, Pre-Solo Preparation:	
Federal Aviation Regulations	
• Review 14 CFR 61.87 – Solo requirements for studer	nt pilots
Review airport/facilities directory data on airport at wh	nich solo will occur
Practice getting weather briefings and evaluating suital	bility of conditions

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 11: Pre-Solo Preparation

Lesson Objectives

The instructor will evaluate the student's progress to determine readiness for solo flight, present the presolo quiz and correct any faulty performance areas.

Discussion/Review		
Operation of systems	Spin awareness	
Preflight inspection	Steep turns	
Engine starting	Ground reference maneuvers	
Radio communications	Systems and equipment malfunctions	
Normal and crosswind taxiing	Emergency procedures	
Pre-takeoff check	Traffic patterns	
Normal and crosswind takeoff	Forward slips to landing	
Power-off stalls (full)	Go-arounds from rejected landings	
Power-on stalls (full)	Normal and crosswind approach and landing	
Maneuvering at critically slow airspeeds	PIC responsibility and authority	
Climbing and descending turns	Flight by reference to instruments	
Straight-and-level flight	Forced landing procedures	
Turns to headings		
Completion Standards		
The student demonstrates readiness for solo flight in the traffic pattern. Indicates good understanding of local airport and airspace rules, and systems and equipment malfunctions. Demonstrates mature PIC decision-making authority as well as competence and proficiency levels for the relevant maneuvers prescribed in the ACS.		
Lesson Complete		
PRNFC Instructor Signature	Date	
Homework Assignment		
Prior to Lesson 12, First Solo:		
Read Federal Aviation Regulations on solo requirements for student pilots, § 61.87		
Review the airport/facilities directory data on airport where solo will occur		
Review operating limitations in the POH		

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 12: First Solo

Lesson Objectives

Prior to this flight, the instructor will have administered the presolo written exam. During the dual portion of the lesson, the instructor will review takeoff and landing procedures to check the student's readiness for solo flight; in the second portion of the lesson, the student will conduct the first solo flight in the local traffic pattern.

Discussion/Review	
Student questions	Airport operations
Endorse logbook and student pilot certificate	Radio communications
Engine starting	Taxi
Radio communications	Pre-takeoff check
Normal and/or crosswind taxi	Normal takeoffs and climbs
Pre-takeoff check	Traffic pattern operations
Normal takeoffs	Normal approaches and landings
Traffic pattern operations	Emergency procedures
Go-around from a rejected landing	Supervised solo
Normal landings	Postflight procedures
Preflight preparations and procedures	
Completion Standards	
The student successfully accomplishes a supervised solo as difflight in question.	rected by the instructor. At no time was the safety of the
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Review previously assigned reading material	

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 12a: Repeat Initial Solo

Lesson Objectives

First solo is complete. Perform an additional supervised solo flight for confidence building and practice.

Discussion/Review	
Student questions	Airport operations
Endorse logbook and student pilot certificate	Radio communications
Engine starting	Taxi
Radio communications	Pre-takeoff check
Normal and/or crosswind taxi	Normal takeoffs and climbs
Pre-takeoff check	Traffic pattern operations
Normal takeoffs	Normal approaches and landings
Traffic pattern operations	Emergency procedures
Go-around from a rejected landing	Supervised solo
Normal landings	Postflight procedures
Preflight preparations and procedures	
Completion Standards	
The student successfully accomplishes a supervised solo as dir flight in question.	rected by the instructor. At no time was the safety of the
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Review previously assigned reading material	

Patuxent River Navy Flying Club

Student:

Stage 1: Pre-Solo

Lesson 13: Review

Lesson Objectives

The instructor evaluates the student's solo abilities to determine if the student can safely depart the traffic pattern, conduct solo flights in the practice area and exercise the privileges associated with solo operation of the aircraft, and return to the airport and land without instructor assistance.

Review- Dual	
Confirm students' awareness of local practice	Maneuvering during slow flight
area boundaries	Collision avoidance precautions
Random V speeds and systems operation	Stall / spin awareness and recovery
Human factors checklist	Go-arounds
Basic aerodynamics	En route emergency procedures
Airspace and use of charts	Emergency approach and landing
Description of maneuvers	S-turns
Student pilot limitations and privileges	Forward slip to a landing
Airport procedures	Radio communications
Performance criteria	Radio and systems failure
Runway incursion avoidance	Flight by reference to instruments
Wake turbulence avoidance	
Review - Solo	
Radio communications	Traffic pattern
Power-off stalls and recovery	Normal and crosswind approach and landing
Normal and crosswind takeoff and climb	Postflight procedures
Completion Standards	
This lesson and Stage One are complete when the student can competently conduct of solo flights in the local practice area. Demonstrates the ability to the instructor's assistance. At the discretion of the instructor, any remedial the above maneuvers, navigation and communication techniques.	depart airport, find local practice area, and return to the airport without
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 14, Performance Takeoffs and Landings:	
Airplane Flying Handbook	Review the Pilot's Operating Handbook
• Review Takeoff and Departure Climbs (Ch. 5) and Approaches and Landings (Ch. 8)	procedures for short- and soft-field operations

Patuxent River Navy Flying Club



Student:

Stage 2: Solo

Lesson 14: Performance Takeoff and Landings

Lesson Objectives

The student will learn to obtain the maximum takeoff and landing performance from the training aircraft. The student will be introduced to varying runway conditions and develop skill during takeoff and landing.

Review - Dual
Performance computation
Elements related to performance takeoffs and landings
Rectangular courses
Turns around a point
S-turns across a road
Maneuvering at critically slow airspeeds
Flight at slow airspeeds with realistic distractions
Recognition of the danger of low level stall
Introduce Short-field takeoff and climb
Soft-field takeoff and climb
Short-field approach and landing
Soft-field approach and landing
Completion Standards
The student is able to explain what runway conditions necessitate the use of soft-field and short-field takeoff and landing techniques and demonstrates the correct procedure to be used under these conditions, although proficiency will not be at the private pilot level. At no time will successful outcome of each task be in doubt.
Lesson Complete
PRNFC Instructor Signature Date
Homework Assignment
Prior to Lesson 15, Solo Practice:
Aeronautical Information Manual
 Research in AIM any flight operations questions that arose during solo
Review Pilot's Operating Handbook
Review Pilot's Handbook of Aeronautical Knowledge
• Airspace (Ch. 14)

Patuxent River Navy Flying Club

Student:

Stage 2: Solo

Lesson 15: Solo Practice

Lesson Objectives

Increase student proficiency with solo takeoffs and landings.	
Review	
Traffic pattern procedures	Soft-field takeoffs and landings
Radio communications	After landing procedures
Taxiing	Parking and securingReview – Solo
Pre-takeoff check	Normal and/or crosswind takeoffs and climbs
Traffic patterns	Maneuvering at critically slow airspeeds
Power-off stalls	S-turns across a road
Power on stalls	Steep turns
S-turns across a road	Turns around a point
Turns around a point	Rectangular course
Short-field takeoffs and landings	Normal / crosswind approach and landing
Completion Standards	
The student is able to explain what runway conditions necessitate the use demonstrates the correct procedure to be used under these conditions, althoucessful outcome of each task be in doubt.	- · · · · · · · · · · · · · · · · · · ·
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 16, Navigation:	
Pilot's Handbook of Aeronautical Knowledge	
• Navigation (Ch. 15)	

Patuxent River Navy Flying Club



Student:

Stage 2: Solo

Lesson 16: Navigation

Lesson Objectives

The student is introduced to the training aircraft's navigation system and VFR navigation procedures to determine position and track a specified course.

Discussion/Review	
Use of VOR systems to include identification and tracking VOR	Signals
Navigation by pilotage	
Use of aeronautical charts	
Introduce	
VOR orientation and tracking	
GPS orientation and tracking (if applicable)	
Lost procedures using aircraft navigation systems	
Completion Standards	
The student displays an understanding of the use of aircraft navigation systems, and is cross-checks.	proficient in their use including performing VOR position
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 17, Introduction to Cross-Country Flight:	
Pilot's Operating Handbook	
Study cruise performance and fuel consumption calculations as	s given in the performance charts
Aeronautical Information Manual	

Review airspace in Chapter 3

Patuxent River Navy Flying Club



Student:

Lesson 17: Intro to Dual Cross-Country Flight

Lesson Objectives

The student is introduced to the procedures and the techniques to be used during the cross-country flight, including flight planning, pilotage and dead reckoning, navigation systems, diversion to an alternate airport and lost procedures.

Review/Introduce

Cross	-Country Flight Planning
	Sectional charts
	Adverse weather conditions
	Airport Facility Directory
-	Route selection
	Obtaining weather information
	Determining performance and limitations
	Navigational aids
	FAA flight plan (format, opening & closing)
	NOTAMS (D, FDC)
	Weight and balance computation
	Cockpit management
	Aeromedical factors
	Estimates of groundspeed / ETA / fuel consumption
Cross	-County Flight
	Departure
	Opening flight plan
	Course interception
	Pilotage, use of magnetic compass
	Dead reckoning
	Obtaining in-flight weather information
	VOR navigation
	ADF navigation (if applicable)
	Power settings and fuel mixture control
	Diversion to an alternate airport
	Position fix by radio aids
	Flight on Federal airways

Private Pilot Syllabus	Patuxent River Na	vy Flying Club	Student:
Use of approach and dep	parture control		
Operations at unfamiliar	airports		
Controlled and uncontrol	olled airports		
Incorporating Nav Instrumen	nts		
Crosscheck pilotage/ded	I reckoning with VOR radials		
Safety Procedures / Emergen	cy Operations		
System and equipment r	nalfunction		
Emergency approach an	d landing		
Recognition of critical v	veather		
Estimating in-flight visit	bility		
Lost procedures			
Collision avoidance pred	cautions		
Emergency			
Completion Standards			
The student demonstrates the skill to onecessary corrections to ensure proper and dead reckoning and by any other a Arrives at ETA within three minutes (r course, computing groundspeed, ETA navigational systems. Understands ho	A and fuel consumption. Displa w to perform lost procedures an	ys ability to navigate by means of pilotage
Lesson Complete			
PRNF	C Instructor Signature	Date	
Homework Assignment	t .		

Prior to Lesson 18, Introduction to Night Flight:

Federal Aviation Regulations

Review 14 CFR 61.109 (night flying requirements for private pilots)

Airplane Flying Handbook

Night Operations (Ch. 10)

Patuxent River Navy Flying Club



Student:

Stage 3: Cross-Country

Lesson 18: Intro to Night Flight

Lesson Objectives

The student is introduced to the operational aspects of night flight. Special emphasis is placed on the student learning the additional planning and flight considerations necessary when operating in the night environment.

Discussion/Review	
Preparation techniques for night flying	Cockpit management
Flight planning considerations	Taxiing
Route selection	Pre-takeoff checks
Night scanning techniques and collision	Normal takeoffs and landings
avoidance	Traffic pattern
Night flying regulations	Go-arounds
Night VFR fuel requirements	Recovery from unusual flight attitudes
Visual illusions	System and equipment malfunction
Night vision	Maneuvering during slow flight
Disorientation	Recovery from power off and on stalls
Aircraft, airport and obstruction lighting	VFR navigation
Personal equipment and preparation	Normal takeoffs and climbs
Flight by reference to instruments	Normal approaches and landings
Emergency procedures at night	
Completion Standards The student displays an understanding of the importance of attitude control. Lesson Complete	· · · · · · · · · · · · · · · · · · ·
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 19, Night Cross-Country:	
Pilot's Handbook of Aeronautical Knowledge	
• Review Chapters 9-17	
Review previously assigned reading material	

Patuxent River Navy Flying Club



Student:

Stage 3: Cross-Country

Lesson 19: Night Cross-Country

Lesson Objectives

The student is introduced to night cross-country procedures and the proper techniques to be used during flights out of the local training area and prepares the student for solo cross-country flight.

prepares the student for solo cross-country flight.	
Discussion/Review	
Preflight and taxiing techniques	Navigation log
Sectional charts	Weight and balance computation
Use of flight publications	Cockpit management
Route selection and basic navigation procedures	Night VFR fuel requirements
Airspace rules	Aeromedical factors
Obtaining weather information	Emergency operations
Determine performance and limitations	Lost procedures
Completion Standards	
The student demonstrates the skill to perform cross-country flights at night use of FAA publications and charts, adherence to the preplanned flight and	
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 20, Solo Cross-Country:	
Pilot's Handbook of Aeronautical Knowledge	
 Airport Operations (Ch. 13) 	

____ Practice obtaining weather briefings and making go/no-go decisions based on the information provided

Patuxent River Navy Flying Club



Student:

Stage 3: Cross-Country

Lesson 20: Cross-Country Stage Check - Chief CFI

Lesson Objectives

Demonstration of skills necessary to safely conduct a solo cross-country flight.

Discussion/Review	
Student conducts solo cross-country briefing with instructor	ATC light signals Aeronautical decision making
Required documents and endorsements Determining performance and weight and balance Basic VFR weather minimums	Cockpit management Computing groundspeed, ETA and fuel requirements
Airspace rules En route communications	VOR interception and tracking Use of navigation log
ATC services En route weather information	Filing, opening and closing FAA flight plan VOR and ADF navigation
Lost procedures Emergency operations	Pilotage Dead reckoning
Diversions (e.g., unfamiliar airports) Completion Standards	Use of controlled and uncontrolled airports
Demonstrates cross-country proficiency by completing the flight as planne awareness of aircraft location at all times, and demonstrates execution of location Complete	ost procedures.
PRNFC Chief Instructor Signature	Date

Patuxent River Navy Flying Club



Student:

Stage 3: Cross-Country

Lesson 21: Solo Cross-Country

Lesson Objectives

Use of previously gained knowledge and skills to complete a solo cross-country flight.

Discussion/Review	
Student conducts solo cross-country briefing with	Aeronautical decision making
instructor	Cockpit management
Required documents and endorsements	Computing groundspeed, ETA and fuel
Determining performance and weight and balance	requirements
Basic VFR weather minimums	VOR interception and tracking
Airspace rules	Use of navigation log
En route communications	Filing, opening and closing FAA flight plan
ATC services	VOR and ADF navigation
En route weather information	Pilotage
Lost procedures	Dead reckoning
Emergency operations	Use of controlled and uncontrolled airports
Diversions (e.g., unfamiliar airports)	At least one landing more than 50 n.m. from
ATC light signals	departure airport
Completion Standards	
Demonstrates cross-country proficiency by completing the flight as planned Additionally, during the postflight evaluation, the student will show an underinstructor should review the completed navigation log during the postflight Lesson Complete	erstanding of the procedures to be followed at unfamiliar airports. The
PRNFC Instructor Signature	Date
Homework Assignment	
Prior to Lesson 21, Practical Test Preparation:	
Review Airman Certification Standards	
• Be sure that maneuvers will be practiced to tolerances familiar with the flight-testing process.	s equal to or exceeding the requirements, and to become

Patuxent River Navy Flying Club

Student:

Stage 4: Test Preparation

Lesson 22: Practical Test Preparation

Lesson Objectives

The instructor will evaluate and determine the student's proficiency level.

Discussion/Review	
Applicable performance criteria	Maneuvering during slow flight
Applicable rules	Stalls and recovery
Minimum equipment list	Emergency procedures
Cross-country flight planning	Flight by reference to instruments
Airplane logbook entries	Pilot in command authority and responsibility
Preflight inspection	Collision avoidance precautions
Cockpit resource management	Traffic pattern operations
Aeronautical decision making	Short-field approach and landing
Engine starting	Soft-field approach and landing
Radio communications	Forward slip to landing
Airport and runway markings and lighting	Go-around
Normal and crosswind taxiing	Wake turbulence avoidance
Pre-takeoff check	Ground reference maneuvers
Short-field takeoff and climb	Emergency procedures
Soft-field takeoff and climb	Flight by reference to instruments
Navigation procedures	After-landing procedures
Diversion procedures	Post-flight procedures
Steep turns	
Completion Standards	
Demonstrates mastery of designated maneuvers and knowledge items. Altitumaneuvers that do not meet ACS standards should be reviewed with the study	
Lesson Complete	
PRNFC Instructor Signature	Date
Homework Assignment	
Federal Aviation Regulations	

• Verify that aeronautical experience requirements in the federal aviation regulations have been, or will be, met for the desired pilot certificate at the end of the training program.

Patuxent River Navy Flying Club

Student:



Pilot's	Oper	ating	Har	ıdbod	k
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• Review operating speeds for your aircraft, systems information and emergency procedures in the Pilot's Operating handbook.

Patuxent River Navy Flying Club

Student:

Stage 4: Test Preparation

Lesson 23: Practical Test Preparation – Chief CFI

Lesson Objectives

The instructor will evaluate and determine the student's proficiency level.

Discussion/Review					
Applicable performance criteria	Maneuvering during slow flight				
Applicable rules	Stalls and recovery				
Minimum equipment list	Emergency procedures				
Cross-country flight planning	Flight by reference to instruments				
Airplane logbook entries	Pilot in command authority and responsibility				
Preflight inspection	Collision avoidance precautions				
Cockpit resource management	Traffic pattern operations				
Aeronautical decision making	Short-field approach and landing				
Engine starting	Soft-field approach and landing				
Radio communications	Forward slip to landing				
Airport and runway markings and lighting	Go-around				
Normal and crosswind taxiing	Wake turbulence avoidance				
Pre-takeoff check	Ground reference maneuvers				
Short-field takeoff and climb	Emergency procedures				
Soft-field takeoff and climb	Flight by reference to instruments				
Navigation procedures	After-landing procedures				
Diversion procedures	Post-flight procedures				
Steep turns					
Completion Standards					
Demonstrates mastery of designated maneuvers and knowledge items. Altitude, heading, and airspeed meet or exceed ACS standards.					
Lesson Complete					
PRNFC Chief Instructor Signature	Date				