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Flight Instructor Training Course


SYLLABUS

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Flight Instructor Syllabus

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Flight Instructor Syllabus

Purpose

Flight Instructor syllabus lays out the ground and flight training that will prepare a pilot to become a Certified Flight Instructor CFI. It ensures that candidates are fully prepared to teach, evaluate and mentor student pilots while maintaining the highest standards of safety, professionalism and regulatory compliance. The syllabus is in two stages which are subdivided into one or more “phases,” each containing multiple knowledge lessons and flight scenarios. Progress checks are in phases at key points in the course including those marking the end of a stage.

STEPS TO BECOMING A CERTIFIED FLIGHT INSTRUCTOR (CFI)

The course enrolment requirements are as shown below:

1. Hold a commercial pilot or airline transport pilot certificate.
2. Hold an instrument rating appropriate to the aircraft category and class for instructor privilege sought.
3. Hold a current medical certificate Class 1.
4. Pass knowledge tests on Fundamentals of Instructing and aeronautical knowledge appropriate to instructor rating sought.
5. Complete the required flight training for the course
6. Pass a flight instructor practical test.

COURSE STRUCTURE

STAGES

The course is divided into two stages:

Stage 1: Learning the Flight Instructor Role

Stage 2: Becoming a Flight Instructor

PHASES

Each stage is made up of one or more phases. There are a total of four phases:

Stage 1: Learning the Flight Instructor Role

Phase 1: Demonstrating Manoeuvres from the Right Seat

Phase 2: Gaining Proficiency Demonstrating and Explaining Manoeuvres

Phase 3: Refining Instructional Skills

Stage 2: Becoming a Flight Instructor

Phase 4: Demonstrating Instructional Competence

SCENARIOS

There are multiple flight scenarios within each phase. The completion standards for the scenario

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tasks in each phase are found in the respective Phase Proficiency Checklist.

Once all items on the phase proficiency checklist are completed to the level of performance required for that phase, you can then move on to the next phase of training.

You are not required to complete every flight scenario within a phase if you have already demonstrated the standards indicated for that phase, but it is highly recommended that you do so, as the scenarios progress in complexity to give you maximum efficiency in your training. Progress Checks are required scenarios.

PROGRESS CHECKS

Each stage has at least one Progress Check at the end of the last phase of each stage. The progress checks are found:

- Stage 1, phase 1
- Stage 1, phase 2
- Stage 1, phase 3
- Stage 2, phase 4

PHASE SEQUENCE

The four phases are:

1. DEMONSTRATING MANOEUVRES FROM THE RIGHT SEAT — Your flight instructor curriculum ground study for Phase 1 reviews and delves further into Aerodynamics, Sectional Charts, Airspace and Weather Minimums, and the Civil Aviation Regulations.

Your in-flight scenarios begin with exercising the flight controls and thereafter flying all the scenarios from the instructor's flight station (normally the right seat in a side-by-side cockpit). You will start explaining how to perform manoeuvres as you demonstrate them. You will also start the process of analysing and correcting errors with basic manoeuvres made by your instructor when simulating a pilot you are training. You will also look for the risks involved with manoeuvres and formulate strategies to mitigate them. In the last scenario of this phase, you will fly with another instructor for a phase progress check.

2. GAINING PROFICIENCY, DEMONSTRATING AND EXPLAINING MANOEUVRES — For this Phase's ground lessons, you will look more in depth at the Flight Instruments, Aircraft performance, Weather, Weight and Balance, then study how to teach flight manoeuvres with the Teaching Manoeuvres lab.

During your in-flight scenarios you will demonstrate all designated manoeuvres to the specified standards while simultaneously explaining the elements of each manoeuvre. You will also start using scenarios for introducing a manoeuvre to a simulated pilot in

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training. In addition, you will continue exercising risk management while analysing and correcting errors made by your instructor simulating a pilot being trained on more advanced manoeuvres. The last scenario of this phase is another phase progress check that you will fly with a check instructor.

3. REFINING INSTRUCTIONAL SKILLS — In this phase, your ground study will include Communications and Radar Services, Radio Navigation, and the Fundamentals of Instructing (FOI). After completing the FOI Lab and the question review feature for FOI, you will be prepared to take the FOI knowledge test.

You will be involved with planning your in-flight scenarios such as instructional flights and expanding lesson scenario development to include all manoeuvres. You will also refine error analysis and correction for the simulated pilot in training performance. You will complete this phase with an end-of-stage progress check flown with another instructor.

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4. DEMONSTRATING INSTRUCTIONAL COMPETANCE — Your knowledge study for this phase includes the Cross-Country Planning, Flight Operations and Advanced Ground Instructor Labs as well as concentrated sessions with your instructor in preparation for the practical test.

Your in-flight activities include demonstrating all manoeuvres while simultaneously explaining how to fly them, introducing manoeuvres to simulated pilots in training, correcting simulated errors, teaching manoeuvres appropriate for risk surveillance and mitigation, and demonstrating active instructional level risk awareness, identification and mitigation. You will fly an end-of-course progress check with an appropriately designated instructor.

Since each phase builds on what you have learned before, it is important that you complete the phases in the proper sequence. However, some degree of flexibility is necessary.

- i. Weather and other factors may make it impractical to conduct a particular flight scenario while another may be possible.
- ii. In this case your instructor, with the approval of the chief instructor, may suggest out-of-phase and out-of-stage scenarios that can be completed with the current conditions.
- iii. If available at your flight school and approved for this course, you may complete all or portions of a flight scenario using an aviation training device, flight training device, or flight simulator.

PHASES

There are 4 phases of training. Each phase has

1. *Required Knowledge Instruction*
2. *Suggested Flight Scenarios*
3. *Required Phase Ground Training Checklists*
4. *Required Phase Proficiency Checklists*


Knowledge Instruction

1. Forms the customer's knowledge foundation to be used for the flight scenarios
2. Is directly correlated to the phase
3. Is to be completed before the corresponding phase can be considered complete

Flight Scenarios

1. Are placed in a suggested order of completion
2. Can be flown
 - i. Once
 - ii. More than once
 - iii. Not at all
3. Can be customized for your local training environment
4. Can be completed out of phase or stage if approved by the Chief Instructor

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Phase Ground Training Checklists

Can be prepared for through study of the course library materials

1. Recorded as 'Instruction Given', 'Describe' or 'Explain'
 - i. 'Instruction Given' indicates that your instructor briefed you on the subject
 - ii. 'Describe' indicates that you can describe the physical characteristics of the manoeuvres or knowledge area
 - iii. 'Explain' indicates that you can describe the task or knowledge area and understand the underlying concepts, principles and procedures
2. Must be demonstrated to the 'Explain' level to complete the phase

Phase Proficiency Checklists

1. Contain tasks that are to be completed to the 'Perform' level to complete the phase
2. Contain single-pilot resource management that is to be completed to the 'Manage/Decide' level
 - i. Grading criteria is discussed in detail later in this document
3. Contain completion standards for the phase

PROGRESSING THROUGH THE SYLLABUS

A phase is considered complete when all the tasks are completed to the 'Perform' or 'Manage/Decide' level as appropriate for the completion's standards given on the Phase Proficiency Checklist.

It is recommended that the order of the suggested scenarios be followed.

1. However, with the approval of your Chief Instructor you can complete scenarios that are out of the current phase
2. This flexibility allows greater efficiency in course of flight training

You do not need to complete all scenarios in a phase to complete that particular phase. The scenarios are simply suggested flights to get you to the 'Perform' and 'Manage/Decide' level for the tasks and standards for that phase.

It is more common to repeat the scenarios to obtain the desired level of proficiency and safety than to skip them.


If you are able meet all the phase standards and skip a scenario, you and your instructor must make sure that you meet the hourly training requirements applicable to your approved training course. It is possible you could finish the course meeting all the standards but be deficient in the required minimum time and must make it up at the end.

OVERALL SYSTEM USE

The Flight Instructor course is designed to provide the most benefit when

1. The instructor assigns preparation for the next scenario

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- i. Suggested study materials
 - ii. Scenario planning
2. Prior to the next scenario, you
 - i Study the assigned materials
 - ii Perform the necessary scenario planning
3. Prior to the flight, the instructor
 - iii Prints your training package (or downloads it to a mobile device) including the
 - i. Phase Ground Training Checklist
 - ii. Phase Proficiency Checklist
 - iii. Scenario
4. During the preflight briefing
 - i. Your instructor evaluates the applicable items on the Phase Ground Training Checklist
 - iv You ask any questions you have to clarify your understanding of the knowledge areas and the upcoming scenario
 - v You brief the instructor on the scenario planning
5. During the postflight briefing
 - vi You independently grade the applicable tasks on the Phase Proficiency Checklist
 - vii Your instructor independently grades the tasks on the Phase Proficiency Checklist
 - viii You then discuss the scenario outcome and compare grading
 - ix The instructor logs the scenario

INDUSTRY TRAINING STANDARDS


This flight training syllabus uses the concepts developed under the Industry Training Standards (ITS) program. ITS incorporates three tenets

- Scenario-based training (SBT)
- Single-pilot resource management (SRM)
- Learner-centered grading (LCG)

Scenario-Based Training (SBT) uses real-world scenarios as the foundation of training. Flight manoeuvres are still a vital part of flight training, but the use of real-world scenarios helps to develop a pilot's decision-making skills. The training presents situations and circumstances that pilots face every day as learning experiences.

Single-Pilot Resource Management (SRM) includes the concepts of aeronautical decision making (ADM), risk management (RM), task management (TM), automation management (AM), controlled flight into terrain (CFIT) awareness, and situational awareness (SA). SRM training

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helps the pilot to accurately assess and manage risk, thereby making logical and timely decisions.

Learner-Centered Grading (LCG) includes two parts: learner self-assessment and a detailed debrief by the instructor. The purpose of the self-assessment is to stimulate growth in the learner's thought processes and, in turn, behaviours. The self-assessment is followed by an in-depth discussion between the instructor and the customer that compares the instructor's assessment to the customer's self-assessment.

SCENARIO-BASED TRAINING

The scenario-based approach to training pilots emphasizes the development of critical thinking and flight management skills, rather than focusing solely on traditional manoeuvre-based skills. The goal of this training philosophy is the accelerated acquisition of higher-level decision-making skills. Such skills are necessary to prevent pilot-induced accidents.

Scenario-based training goals include the development of

- Critical thinking skills
- Aeronautical decision-making skills
- Situational awareness
- Pattern recognition (emergency procedures) and judgment skills
- Automation competence
- Planning and execution skills
- Procedural knowledge
- Psychomotor (hand-eye coordination) skills
- Risk management skills
- Task management skills
- Automation management skills
- Controlled flight into terrain (CFIT) awareness


For scenario-based training to be effective there must be a purpose for the flight and consequences if the flight is not completed as planned.

It is vital that you, the instructor in training, and your instructor communicate the following information well in advance of every training flight:

- Purpose of the flight
- Pressures to complete the flight (real or simulated)
- Risks/hazards associated with the scenario (real or simulated)
- Scenario destination(s)
- Desired outcomes
- Possible in-flight scenario changes or deviations (during later stages of the program)

With the guidance of your instructor, you should plan and fly the scenario as realistically as possible. This means that you will know where you are going and what will transpire during the

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flight. While the actual flight may deviate from the original plan, this method allows you to be placed in a realistic scenario.

SCENARIO PLANNING

Prior to the flight, you will be briefed on the scenario to be planned. You will plan the scenario; your instructor will help you the first few times. The flight scenario should include

- Simulated real-world reason to go flying
- Route
 - i Destination(s)
 - ii Weather
 - iii NOTAMs
- Pressures to complete the flight (real or simulated)
- Risks associated with the scenario (real or simulated)
- Possible deviations

Reality is the ultimate learning situation, and scenario-based training attempts to get as close as possible to this ideal. The more realistic the training scenario, the better we learn

- Core safety habits, and
- Decision-making skills that can be applied in the real-world

SINGLE-PILOT RESOURCE MANAGEMENT (SRM)

Single-pilot resource management is defined as the art and science of managing all the resources (both onboard the aircraft and from outside sources) available to a pilot flying in a single-pilot operation (prior to and during flight) to ensure that the successful outcome of the flight is never in doubt.

SRM includes the concepts of

- Task management (TM)
- Automation management (AM)
- Risk management (RM)
- Aeronautical decision making (ADM)
- Situational awareness (SA)
- Controlled flight into terrain (CFIT) awareness

SRM training helps a pilot maintain situational awareness by

- Managing the technology in the aircraft as well as aircraft control and navigation tasks
- Enabling the pilot to accurately assess and manage risk while making accurate and timely decisions
- Helping pilots learn how to gather information, analyse it and make decisions

In most flight scenarios, there is no one correct answer. Pilots are expected to analyse each situation considering their;

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- Experience level
- Personal minimums
- Current physical and mental condition
- Ability to make their own decisions as best as possible

Below are standards for each training concept of SRM:

Performance The training task is:	Standards You will:
Task management (TM)	Prioritize and select the most appropriate tasks (or series of tasks) to ensure successful completion of the training scenario.
Automation management (AM)	Program and utilize the most appropriate and useful modes of cockpit automation to ensure successful completion of the training scenario.
Risk management (RM)	Utilize risk management tools to assess and mitigate risk associated with the planned flight both during the preflight planning and in flight.
Aeronautical decision-making (ADM)	Consistently make informed decisions in a timely manner based on the task at hand and a thorough knowledge and use of all available resources.
Situational Awareness (SA)	Be aware of all factors such as traffic, weather, fuel state, aircraft mechanical condition, and pilot fatigue level that may have an impact on the successful completion of the training scenario.
Controlled Flight Into Terrain (CFIT) Awareness	Understand, describe, and apply techniques to avoid CFIT during inadvertent encounters with IMC during VFR flight, periods of reduced visibility, or at night.

LEARNER-CENTERED GRADING

Learner-centered grading includes two parts

- Learner self-assessment
- A detailed debrief by the instructor

The purpose of the self-assessment is to stimulate growth in the learner's thought processes

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and, in turn, behaviours. The self-assessment is followed by an in-depth discussion between you and your flight instructor that compares your self-assessment to the instructor's assessment.

Pre- and post-flight briefings are essential for setting goals. During events and tasks that require high levels of attention, there may be little time for learning as the bulk of your cognitive resources are given to performing the actual task.

INDEPENDENTLY GRADING THE SCENARIO

After the scenario is complete, you and your instructor should independently grade your performance for manoeuvres and single-pilot resource management (SRM). Note that any grade that would not apply to the task has been grayed out in this syllabus.

It is very important that enough time is allowed. Simply assigning grades and signing logbooks within a limited period will not work with this grading system.

After independently evaluating the *actual scenario outcomes* compared to the *desired outcomes*

- You and your instructor come together to compare and discuss your individual evaluations during the postflight discussion

You and your instructor may disagree on the evaluations.

- This should be used as an opportunity to discuss the scenario further
- The instructor has the final authority in assigning the final grade for the desired outcomes


MANOEUVRES (TASK) GRADES

- **Describe** – At the completion of the ground training session, the pilot in training will be able to describe the physical characteristics of the task at a rote level.
- **Explain** – At the completion of the ground training session, the pilot in training will be able to describe the task and display an understanding of the underlying concepts, principles, and procedures.
- **Practice** – At the completion of the scenario, the pilot in training will be able to plan and execute the scenario. *Coaching, instruction, and/or assistance from the instructor will correct deviations and errors identified by the instructor.*
- **Perform** – At the completion of the scenario, the pilot in training will be able to perform the activity without assistance from the instructor. *Errors and deviations will be identified and corrected by the customer in an expeditious manner.* At no time will the successful completion of the activity be in doubt. ('Perform' will be used to signify that the pilot is satisfactorily demonstrating proficiency in traditional piloting and systems operation skills.)
- **Not Observed** – Any event not accomplished or required in the scenario.

Example:

- Once the pilot in training can explain the effect of crosswind and speed reduction on

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rudder effectiveness, they have achieved a level of learning that will allow for meaningful “Practice.”

- The “Perform” level is met when the completion standards for the particular scenario or phase are met.

SINGLE-PILOT RESOURCE MANAGEMENT (SRM) GRADES

- **Explain** – At the completion of the ground training session, the pilot in training can verbally identify the risks inherent in the flight scenario.
- **Practice** – The pilot in training can identify, describe, and understand the risks inherent in the scenario. The customer may need to be prompted to identify risks and make decisions.
- **Manage/Decide** - The pilot in training can correctly gather the most important data available both within and outside the cockpit, identify possible courses of action, evaluate the risk inherent in each course of action, and make the appropriate decision.
Instructor intervention is not required for the safe completion of the flight.
- **Not Observed** – Any event not accomplished or required in the scenario.

Example:

- A pilot who is becoming proficient at aeronautical decision making (ADM) and risk management (RM) would be graded first at the “Practice” level.
- The “Manage/Decide” level is met once a pilot makes decisions on their own, for instance, the decision to go-around without being prompted.

EVERYDAY USE OF ITS CONCEPTS

The PAVE Checklist

Use the PAVE Checklist as an easy way to implement the ITS concepts.

The PAVE checklist is

- A simple way to remember and examine the risk factors before you fly, and
- Can also help you manage the specific risks associated with taking off and landing

The PAVE checklist puts risk factors into four categories:

Pilot
Aircraft
environment
External pressures

The pilot. Are you fatigued? When was the last time you were flying in the weather conditions that you will encounter? What are your personal minimums?

The aircraft. Are you familiar with the aircraft? Its avionics? Is it airworthy? What is the density

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altitude? How does that affect your climb rate? What is your maximum crosswind component?

The environment. Are the temperature and dew point close? Are you familiar with the area and its topography? Are there any NOTAMs?

External pressures. Are others influencing the flight? Do you have people waiting for you at the airport?

KNOWLEDGE CONTENT

KNOWLEDGE INSTRUCTION

Knowledge instruction should be completed before beginning the flight scenarios in each corresponding phase; you can work ahead as far in the course as you like at your discretion. However, the course is designed so that the knowledge instruction corresponds to the flight scenarios within a phase.

If you have an extended time lapse between studying the knowledge instruction and flying the companion scenario, you will find it very helpful to take some time to review your last knowledge sessions just before you fly the associated scenario.

You complete the knowledge instruction satisfactorily by answering all the questions correctly. Your instructor will

- Review your results before you fly
- Answer any questions you may have

KNOWLEDGE TEST

Upon completing Phase 3, you will want to prepare for and take the Fundamentals of Instructing (FOI) airman knowledge test and before taking your practical test, you will take the Flight Instructor, Airplane (FIA) airman knowledge test. As a part of your preparation, your ATO will likely want you use the Question Review & Test Prep feature to take a practice test as a part of their course. The test

- Has questions covering the required knowledge areas
- Counts as your final exam for the course.

When you have finished the test, your instructor will

- Review the results with you, and
- Assign appropriate areas for review if necessary

After taking the ATO knowledge test, you should then take the TCAA knowledge tests as soon as possible as the information will be fresh in your memory.

FLIGHT SCENARIOS

PREFLIGHT BRIEFING

Before each flight scenario you and your instructor will review the scenario objectives to make sure you both understand what you will be doing during the lesson.

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- Use this opportunity to ask any questions
- Make sure you understand what is expected of you
- You will need a view-limiting device such as a hood or view-restricting glasses for a scenario having (IR—instrument reference) associated with any task

POST-FLIGHT DISCUSSION AND EVALUATION

After each flight, you and your instructor will

- Review your flight and evaluate your performance independently
- Compare and discuss your self-evaluation with his or her evaluation

Your instructor will make recommendations to help you in your learning. Make sure you ask questions about any area that is not clear.

You will then complete your flight training record based on the completion standards for the phase. Any tasks requiring additional practice to meet the phase completion standards will be carried over to the next flight scenario.

You may expect at least one-half hour for preflight and post-flight briefings for each scenario.

PROGRESS CHECKS

Progress checks are designed to ensure that you progress at the appropriate level of proficiency to move on to the next level. Normally, Chief Instructor or an assigned instructor will fly with you.

Progress checks are nothing to get nervous about; they are there to ensure the completeness of your training. You will find that flying with another instructor often provides fresh insight and new techniques.

REQUIRED AERONAUTICAL KNOWLEDGE AREAS

The Civil Aviation (Personnel Licensing) Regulations, 2017 specify aeronautical knowledge areas that must be covered in the ground training for a Flight Instructor Course. Also noted is reference to knowledge areas for Recreational, Private, and Commercial Pilot applicable to the aircraft category for which flight instructor privileges sought. All required areas are covered in this course, but they are distributed throughout the curriculum for subject continuity and logical development. You will find these required topics included in lessons listed as follows:

(1) Fundamentals of Instructing

PHASE 3; 3.3.1 The Learning Process
 Characteristics of Learning
 Principles of Learning
 Perceptions
 Insights
 Motivation

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Levels of Learning
Domains of Learning

PHASE 3; 3.3.2 Physical Skills, Memory, and Transfer of Learning
Learning Skills
Memory
Forgetting and Retention
Transfer of Learning

PHASE 3; 3.3.3 Human Behaviour
Human Needs
Defence Mechanisms
The Instructor Role in Human Relations
Effective Communication

PHASE 3; 3.3.4 The Teaching Process
Teaching Steps
Lesson Sequence
Lecture
Cooperative or Group Learning
Guided Discussion
Demonstration/Performance
Computer Based Training

PHASE 3; 3.3.5 Critique, Evaluation and Instructional Aids
The Instructor as a Critic
Oral Quizzing
Written Tests
Performance Tests
Instructional Aids

PHASE 3; 3.3.6 Flight Instructor Responsibilities
Professionalism
Helping Student Pilots Learn
Endorsing a Student for Solo Flight
The Flight Instructor as a Practical Psychologist

PHASE 3; 3.3.7 Flight Instruction and Planning Lessons
Techniques of Flight Instruction
Obstacles to Learning
Identifying Blocks of Learning
Lesson Plans

(2) Applicable Civil Aviation (Personnel Licensing) Regulations that relate to Recreational, Private, and Commercial Pilot Privileges, Flight Rules, and Accident and Incident Notification

PHASE 1; 1.4.1 Documents You Need in Flight
Pilot Documents

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Aircraft Documents

PHASE 1; 1.4.2 Pilot Certificate Requirements and Limitations

Student Pilot Requirements and Limitations

Recreational Pilots

Private Pilots

Commercial Pilots

Flight Instructor Certificate Durations, Limitations and Responsibilities

PHASE 1; 1.4.3 TCAA Knowledge and Practical Tests

Knowledge Tests

Practical Tests

PHASE 1; 1.4.4 Flight Requirements and Limitations

Recency, Tailwheel Endorsements and Flight Reviews

Pilot in Command Limitations

Commercial Flights and Turbine-Powered Airplanes

PHASE 1; 1.4.5 Aircraft Maintenance and Equipment

Maintenance Requirements

Minimum Equipment List

PHASE 1; 1.4.6 Rules to Fly By

Preflight Planning, Safety Belts and Oxygen

Minimum Safe Altitudes, Aerobatic Flight and Night Flying

Right of Way

VFR Cruising Altitudes

Speed Limits

Light Gun Signals

Transponders

PHASE 1; 1.4.7 Alcohol, Drugs, Emergencies and Notification Action

Alcohol and Drugs

Emergency Actions and ELTs

Accident and Incident Notification

Address Change Notification

PHASE 4; 4.3.1 Advanced Ground Instructor

V-Speeds and Terms

Regulations

Ground Instructor Privileges

(3) Basic aerodynamics and principles of flight

PHASE 1; 1.1.1 Lift and Stalls

Lift

Angle of Attack

Stalls and Spins

PHASE 1; 1.1.2 Forces on an Aircraft

Forces on an Aircraft

Drag

Climb Performance and Aircraft Axes

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Propellers and Left Turning Tendency

PHASE 1; 1.1.3 Wing Design and High-Lift Devices

Wing Shape

High Lift Devices

PHASE 1; 1.1.4 Manoeuvrability, Controllability and Stability

Manoeuvrability and Controllability

Stability

Center of Gravity

Lateral Stability

PHASE 1; 1.1.5 Manoeuvring Flight

Turns and Forces in Turns

Rate and Radius of Turns

Load Factor

Gear and Flap Configurations

Manoeuvres Diagram

Severe Turbulence

PHASE 1; 1.1.6 Airspeed Limitations, Vortices and Ground Effect

Airspeed Limitations

Wing Tip Vortices

Ground Effect

PHASE 1; 1.1.7 Multiengine Operations

Multiengine Operations

(4) Meteorology including critical weather situations, windshear recognition and avoidance, and the use of aeronautical weather reports and forecasts

PHASE 2; 2.3.1 The Atmosphere, Pressure Systems and Fronts

Standard Atmosphere

Pressure Systems and Wind

Fronts

Stability and Clouds

PHASE 2; 2.3.2 Clouds, Moisture and Stability

Moisture

Stability

Unstable Air

Stable Air

Temperature Inversions

PHASE 2; 2.3.3 Weather Hazards

Fog

Ice and Freezing Rain

Thunderstorms

Microbursts

Windshear

Turbulence

Mountain Wave

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PHASE 2; 2.3.4 Current Weather
Surface Aviation Weather Reports
METAR Report Rules
Automatic Surface Observations
PIREPs

PHASE 2; 2.3.5 Forecasts
Terminal Forecasts
Area Forecasts
Winds and Temperature Aloft

PHASE 2; 2.3.6 Weather Charts
Constant Pressure Charts
Surface Analysis Charts
Weather Depiction Charts
Low Level Prognostic Charts

PHASE 2; 2.3.7 Aids for Avoiding Hazardous Weather
Weather Advisories
Radar Weather Reports
Severe Outlook Chart

(5) Safe and efficient operation of aircraft

PHASE 1; 1.1.6 Airspeed Limitations, Vortices and Ground Effect
Airspeed Limitations
Wing Tip Vortices
Ground Effect


PHASE 4; 4.2.1 Preflight Planning
Flight Plans
Chart Supplement
NOTAMs

PHASE 4; 4.2.5 Taxiing in the Wind and Collision Avoidance
Taxiing in the Wind
Avoiding Midairs
Scanning for Traffic

PHASE 4; 4.2.6 Aeromedical Factors
Hypoxia
Oxygen
Alcohol, Hyperventilation, and Scuba Diving
Motion Sickness, Spatial Disorientation and Vision

PHASE 4; 4.2.7 Visual Glide Slopes, Airport Markings and Lighting
2 Bar and 3 Bar VASI
PAPI and Tricolor VASI
Airport Markings
Airport Lighting
Segmented Circle

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(6) Weight and balance computations

PHASE 2; 2.4.1 Weight and Balance Principles and Calculation
Weight and Balance Principles
Locating the Center of Gravity
Using Graphs to Determine Center of Gravity
Finding New CG When Adding Weight
Shifting Weight to Move the CG

(7) Use of performance charts

PHASE 2; 2.2.1 An Airplane's Performance Altitude Finding
Pressure Altitude
How Density Altitude Affects Performance
PHASE 2; 2.2.2 Calculating Performance
Checking the Ground Roll
Takeoff Distance to Clear an Obstacle
Climb Performance
Glide Distance
Crosswind Component
Landing Distance

(8) Significance and effects of exceeding aircraft performance limitations

PHASE 1; 1.1.5 Manoeuvring Flight
Turns and Forces in Turns
Rate and Radius of Turns
Load Factor
Gear and Flap Configurations
Manoeuvres Diagram
Severe Turbulence
PHASE 1; 1.1.6 Airspeed Limitations
Airspeed Limitations

(9) Use of aeronautical charts and a magnetic compass for pilotage and dead reckoning

PHASE 1; 1.2.1 Sectional Charts
Latitude and Longitude
Chart Details
PHASE 2; 2.1.2 Heading Indicator and Magnetic Compass
Heading Indicator
Turning Errors
Acceleration and Deceleration Errors
Deviation Errors
PHASE 4; 4.1.1 Preflight and Inflight Cross-Country Calculations

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Fuel Required and Range
 Wind Triangle, Course and Heading
 Ground Speed and Fuel Consumed
 Distance and Time to Climb
 Magnetic Heading and Ground Speeds
 Determining the Wind
 Distance Travelled and Indicated Airspeed
 Off-Course Correction and Diverting to an Alternate

(10) Use of air navigation facilities

PHASE 3; 3.1.1 Communications and Radar Services
 Transponder Codes, Traffic Advisories and Radio Failure
 PHASE 3; 2.2.1 VOR Navigation
 VOR Orientation
 VORTAC/DME
 PHASE 3; 2.2.2 Estimating Your Position and Checking Your VOR Off
 Course Indicators
 Time and Distance
 VOT

(11) Aeronautical decision making and judgment

PHASE 2; 2.6.2 Aeronautical Decision Making
 Managing the Pilot Risk Factor
 Hazardous Attitudes and Antidotes
 PHASE 3; 3.3.3 Human Behaviour
 Human Needs
 Defence Mechanisms
 The Instructor Role in Human Relations
 Effective Communication

(12) Principles and functions of aircraft systems

PHASE 2; 2.1.1 Pitot-Static Instruments
 Airspeed Errors
 Altimeter Errors
 True Airspeed and Altitudes
 PHASE 2; 2.1.2 Heading Indicator and Magnetic Compass
 Heading Indicator
 Turning Errors
 Acceleration and Deceleration Errors
 Deviation Errors
 PHASE 4; 4.2.2 Airplane Systems
 Fuel Systems
 Engines

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Propellers
Constant Speed Propellers
Engine Ignitions Systems
Electrical Systems
PHASE 4; 4.2.3 Engine Operations
Mixture
Overheating
Detonation and Pre-Ignition
PHASE 4; 4.2.4 Induction Icing and Cold Weather Operations
Induction and Impact Icing
Cold Weather Operations

(13) Manoeuvres, procedures, and emergency operations appropriate to the aircraft

PHASE 2; 2.1.3 Instrument Flight
Basic Instrument Manoeuvres
Unusual Attitudes
PHASE 2; 2.5.1 Steep Turns and Steep Spirals
The Whats and Whys of Steep Turns
Load Factor and You
How to Do Great Steep Turns
Performing Steep Spirals
PHASE 2; 2.5.2 Chandelles
Introduction to the Chandelle
How to Do Chandelles
Techniques for a Perfect Chandelle
PHASE 2; 2.5.3 Lazy Eights
Introduction to Lazy Eights
How to Do Lazy Eights
Techniques for Perfect Lazy Eights
PHASE 2; 2.5.4 Eight on Pylons
Introduction to Eights on Pylons
How to Do Eights on Pylons Techniques
for Perfect Eights on Pylons
PHASE 2; 2.5.5 Power-off Approach
How to do Power-Off 180° Accuracy Approaches and Landings
PHASE 2; 2.6.1 Teaching Aircraft Control
The Basics of Aircraft Control
PHASE 2; 2.6.2 Aeronautical Decision Making
Managing the Pilot Risk Factor
Hazardous Attitudes and Antidotes
PHASE 2; 2.6.3 Teaching Flight Manoeuvres
Turns

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Takeoffs and Landings
 Rectangular Course
 Turns Around a Point
 S-Turns Across a Road
 Chandelles
 Lazy Eights
 Eights on Pylons
 PHASE 4; 4.2.4 Induction Icing and Cold Weather Operations
 Induction and Impact Icing
 Cold Weather Operations
 PHASE 4; 4.2.5 Taxiing in the Wind and Collision Avoidance
 Taxiing in the Wind

(14) Night and high-altitude operations

PHASE 2; 2.1.3 Instrument Flight
 Basic Instrument Manoeuvres
 Unusual Attitudes
 PHASE 2; 2.2.1 An Airplane's Performance Altitude Finding
 Pressure Altitude
 How Density Altitude Affects Performance
 PHASE 4; 4.2.6 Aeromedical Factors
 Hypoxia
 Oxygen
 Alcohol, Hyperventilation, and Scuba Diving
 Motion Sickness, Spatial Disorientation and Vision
 PHASE 4; 4.2.7 Visual Glide Slopes, Airport Markings and Lighting
 2 Bar and 3 Bar VASI
 PAPI
 Airport Markings
 Airport Lighting
 Segmented Circle

(15) Descriptions of and procedures for operating within the National Airspace System

PHASE 1; 1.3.1 Airspace
 Airspace System and Class E Airspace
 Class D Airspace
 Class C Airspace
 Flying in and Around Class C Airspace
 Class B Airspace
 Flying in and Around Class B Airspace Class
 B Communications and Equipment Class A
 Airspace

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PHASE 1; 1.3.2 Special Use Airspace
Restricted and Warning Areas
Alert Areas and MOA's

PHASE 1; 1.3.3 VFR Weather Minimums
Visibility and Cloud Clearance
Controlled Airspace
Special VFR

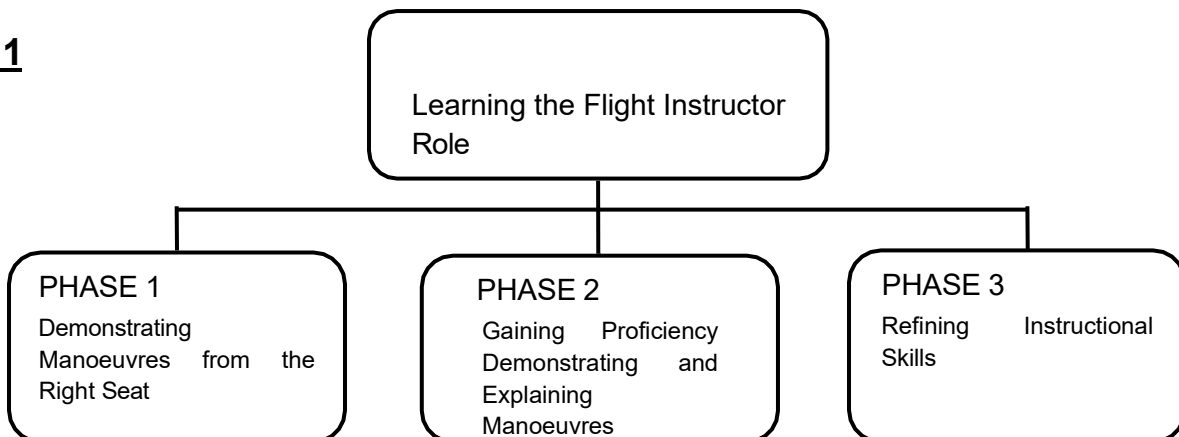
PHASE 2; 2.2.4 Rules to Fly By
Preflight Planning, Safety Belts and Oxygen
Minimum Safe Altitudes, Aerobatic Flight and Night Flying
Right of Way
VFR Cruising Altitudes
Speed Limits
Light Gun Signals
Transponders

PHASE 3; 3.1.1 Communications and Radar Services
Non-Tower Airport Advisory, UNICOM
ATIS, Radio Aids Box
Transponder Codes, Traffic Advisories and Radio Failure

PHASE 4; 4.2.1 Preflight Planning
Flight Plans
Chart Supplement
NOTAMs

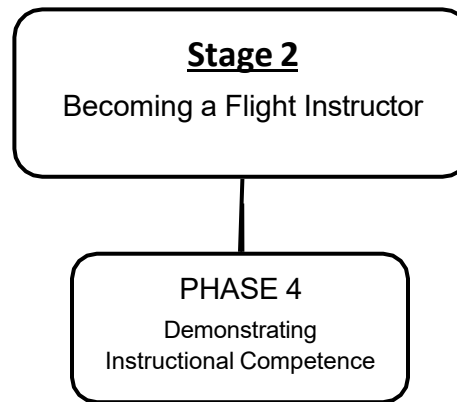
SYLLABUS STRUCTURE

Stage 1



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STAGE 1 – ***Learning the Flight Instructor***

Role (3P) Stage Objectives:

- a. Master flight control at instructor's cockpit position
- b. Perform Private Pilot manoeuvres to standards
- c. Perform Commercial Pilot manoeuvres to standards
- d. Perform Flight Instructor demonstration stalls to standards
- e. Integrate explanation of how a manoeuvres is performed while demonstrating it
- f. Incorporate manoeuvres into scenarios
- g. Explain risks involved with each manoeuvre and describe methods of mitigating them
- h. Complete Spin Task
- i. Complete FOI Ground lessons
- j. Complete FOI test

PHASE 1 – *Demonstrating Manoeuvres from the Right*

Seat (6S) Phase Objectives:

- a. Introduce flight control from instructor's cockpit position
- b. Introduce and demonstrate all tasks
- c. Introduce explaining how to perform a manoeuvre while demonstrating it
- d. Introduce analysing and correcting common errors with basic manoeuvres
- e. Incorporate risk management considerations for each manoeuvre

REQUIRED KNOWLEDGE

AERODYNAMICS

SECTIONAL CHARTS

AIRSPACE AND WEATHER MINIMUMS CIVIL

AVIATION REGULATIONS

1.1 AERODYNAMICS

Objectives: You will restudy the various principles of flight to make sure you have the knowledge necessary for instructing pilot trainees.

1.1.1 Lift and Stalls

Lift
Angle of Attack
Stalls and Spins

1.1.2 Forces on an Aircraft

Forces on an Aircraft
Drag
Climb Performance and Aircraft Axes
Propellers and Left Turning Tendency

1.1.3 Wing Design and High-Lift Devices

Wing Shape
High Lift Devices


1.1.4 Manoeuvrability, Controllability and Stability

Manoeuvrability and Controllability
Stability
Center of Gravity
Lateral Stability

1.1.5 Manoeuvring Flight

Turns and Forces in Turns
Rate and Radius of Turns
Load Factor
Gear and Flap Configurations
Manoeuvres Diagram
Severe Turbulence

1.1.6 Airspeed Limitations, Vortices and Ground Effect

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Airspeed Limitations
Wing Tip Vortices
Ground Effect

1.1.7 Multiengine Operations

Multiengine Operations

1.2 SECTIONAL CHARTS

Objective: You will review charting concepts to make sure you are prepared to instruct new pilots on latitude/longitude and interpreting chart details and symbols so they can relate them to topographical features and objects on the ground.

1.2.1 Sectional Charts

Latitude and Longitude
Chart Details

1.3 AIRSPACE AND WEATHER MINIMUMS

Objectives: You will go back into the details of the National Airspace system and the VFR minimum weather requirements to make sure you are prepared to teach this information and its nuances to new pilots.

1.3.1 Airspace

Airspace System and Class E Airspace
Class D Airspace
Class C Airspace
Flying in and Around Class C Airspace
Class B Airspace
Flying in and Around Class B Airspace
Class B Communications and Equipment
Class A Airspace

1.3.2 Special Use Airspace

Restricted and Warning Areas
Alert Areas and MOA's

1.3.3 VFR Weather Minimums

Visibility and Cloud Clearance
Controlled Airspace
Special VFR

1.4 THE CIVIL AVIATION REGULATIONS

Objectives: You will delve into the regulations to the extent you will easily be able to interpret and explain

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them to the pilots you will train.

1.4.1 Documents You Need in Flight

Pilot Documents
Aircraft Documents

1.4.2 Pilot Certificate Requirements and Limitations

Student Pilot Requirements and Limitations
Recreational Pilots
Private Pilots
Commercial Pilots
Flight Instructor Certificate Durations, Limitations and Responsibilities

1.4.3 TCAA Knowledge and Practical Tests

Knowledge Tests
Practical Tests

1.4.4 Flight Requirements and Limitations

Recency, Tailwheel Endorsements and Flight Reviews
Pilot in Command Limitations
Commercial Flights and Turbine-Powered Airplanes

1.4.5 Aircraft Maintenance and Equipment

Maintenance Requirements
Minimum Equipment List

1.4.6 Rules to Fly By


Preflight Planning, Safety Belts and Oxygen
Minimum Safe Altitudes, Aerobatic Flight and Night Flying Right of Way
VFR Cruising Altitudes
Speed Limits
Light Gun Signals
Transponders

1.4.7 Alcohol, Drugs, Emergencies and Notification Action

Alcohol and Drugs
Emergency Actions and ELTs
Accident and Incident Notification
Address Change Notification

Scenario 1 – Learning Control from the Other Seat (1-1)
Objective:

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Introduce performing flight tasks from instructor's control position
Identify task elements that may be difficult to perform from the instructor's control position
Introduce demonstrating basic manoeuvres while simultaneously explaining how to perform the manoeuvres

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Note unfamiliar visual sight picture
Maintain heightened awareness that flight/engine controls are in different hands
Observe parallax or obscured flight/engine instruments

Preflight Discussion

New this scenario:

Preflight Inspection
Cockpit Management
Engine Starting
Taxiing
Airport, Runway and Taxiway Signs, Markings, and Lighting
Before Takeoff Check
Radio Communications and ATC Light Signals
Traffic Patterns
Normal and Crosswind Takeoff and Climb
Normal and Crosswind Approach and Landing
Go-Around/Rejected Landing
Straight-and-Level Flight
Level Turns
Straight Climbs and Climbing Turns
Straight Descents and Descending Turns
Steep Turns
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)

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Power-Off Stalls (Proficiency)
Spin Awareness
Postflight Procedures

Postflight Discussion

Scenario 2 – Gaining Experience Flying from Instructor's Seat (1-2)

Objective:

Gain confidence in performing flight tasks from instructor's control position Add more Private Pilot manoeuvres
Meet/exceed Private Pilot standards
Expand skill demonstrating/explaining basic manoeuvres

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Identify risks inherent while instructing each manoeuvre and appropriate mitigation
Teach risks involved with phase of flight/manoeuvres and appropriate mitigation

Preflight Discussion


New this scenario:

Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Slip to a Landing
Turns Around a Point
S-Turns across a Road
Systems and Equipment Malfunctions

Improving your skills:

*Preflight Inspection
*Cockpit Management
*Engine Starting
*Taxiing

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*Before Takeoff Check
 ^Radio Communications and ATC Light Signals
 ^Traffic Patterns
 *Airport, Runway and Taxiway Signs, Markings, and Lighting
 Go-Around/Rejected Landing
 #Straight-and-Level Flight
 #Level Turns
 #Straight Climbs and Climbing Turns
 #Straight Descents and Descending Turns
 Steep Turns
 Manoeuvring During Slow flight.
 Power-On Stalls (Proficiency)
 Power-Off Stalls (Proficiency)
 Spin Awareness
 *Postflight Procedures

Postflight Discussion

Note: The remaining scenarios will detail the following representing essential tasks that will be assessed but not individually listed with each scenario:

Pre-takeoff/After Landing Ground Operations encompassing tasks noted with *
Airport Operations encompassing tasks noted with ^
Fundamentals of Flight encompassing tasks noted with #

Scenario 3 –Demonstrating and Explaining Private Pilot Manoeuvres (1-3)

Objective:

Complete all Visual-Reference Private Pilot Manoeuvres
 Meet/exceed standards with Private Pilot level manoeuvres
 Provide insightful explanations of each manoeuvre while demonstrating them

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
 Aviation Employment

Where to go:

Training area


How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

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Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Identify risks involved with the new tasks and describe mitigation techniques Identify areas for loss of collision avoidance awareness while instructing

Preflight Discussion

New this scenario:

Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Rectangular Course
Emergency Descent
Emergency Approach and Landing (Simulated)
Emergency Equipment and Survival Gear

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 2, 7 tasks **)
Airport Operations (*Scenario 2, 2 tasks ^*)
Fundamentals of Flight (*Scenario 2, 4 tasks #*)
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Go-Around/Rejected Landing
Slip to a Landing
S-Turns across a Road
Steep Turns
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Spin Awareness

Postflight Discussion

Scenario 4 – Improving Instructional Skill and Risk Management (1-4)


Objective:

Introduce Private Pilot Instrument Reference Manoeuvres
Meet/exceed standards with *Improving your skills* manoeuvres
Introduce Commercial Pilot level manoeuvres
Introduce simulated common errors on *Improving your skills* manoeuvres
Refine ability to explain how to do a manoeuvre while demonstrating it

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

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Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Identify risks involved with the new tasks and describe mitigation techniques

Identify areas for loss of collision avoidance awareness while instructing

Identify risk areas for loss of situational awareness while instructing

Teach risks involved with phase of flight/manoeuvres and appropriate mitigation

Preflight Discussion

New this scenario:

Straight-and-Level Flight (IR)

Constant Airspeed Climbs (IR)

Constant Airspeed Descents (IR)

Turns to Headings (IR)

Recovery from Unusual Flight Attitudes (IR)

Power-Off 180° Accuracy Approach and Landing

Secondary Stalls (Demonstration)

Accelerated Manoeuvres Stalls (Demonstration)

Chandelles

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)

Airport Operations (*Scenario 1-2 ^*)

Fundamentals of Flight (*Scenario 1-2 #*)

Soft-Field Takeoff and Climb

Soft-Field Approach and Landing

Systems and Equipment Malfunctions

Turns Around a Point

Manoeuvring During Slow Flight


Spin Awareness

Emergency Descent

Emergency Approach and Landing (Simulated)

Postflight Discussion

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Scenario 5 – Building Flight and Instructional Skills (1-5)

Objective:

Introduce steep spirals
Sharpen techniques flying and explaining the *Improving your skills* manoeuvres
Detect and correct simulated common errors on *Improving your skills* manoeuvres

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Identify risks involved with the new tasks and describe mitigation techniques
Identify areas for loss of collision avoidance awareness while instructing
Identify risk areas for loss of situational awareness while instructing
Teach risks involved with phase of flight/manoeuvres and appropriate mitigation

Preflight Discussion


New this scenario:

Steep Spirals

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Straight-and-Level Flight (IR)
Constant Airspeed Climbs (IR)
Constant Airspeed Descents (IR)
Turns to Headings (IR)
Recovery from Unusual Flight Attitudes (IR)
Power-Off 180° Accuracy Approach and Landing
Secondary Stalls (Demonstration)

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Accelerated Manoeuvres Stalls (Demonstration)
Spin Awareness
Chandelles
Normal and Crosswind Takeoff and Climb
Normal and Crosswind Approach and Landing
Emergency Approach and Landing (Simulated)

Postflight Discussion

Phase 1 Ground Training Checklist

<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Explain”</i></p>	Instruction Given	Describe	Explain
Aerodynamic stalls			
Spins			
Propeller effects and left-turning tendency			
Flaps			
Center of Gravity and stability			
Load factor			
Wingtip vortices and avoiding wake turbulence			
Chart topographical features and airport symbols			
Identifying and requirements to fly in different classes of airspace			
VFR weather minimums			
Pilot and aircraft documents			
Pilot in command requirements			
Aircraft maintenance requirements			
Altitudes: minimum and cruising			
Alcohol and drug limitations			

Phase 1 Proficiency Checklist


<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			

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Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Pre-takeoff ground operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures records taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Normal and crosswind takeoff and climb <i>Checks configuration, lights, instruments, wind and power before TO, cross checks instruments in climb, $V_Y \pm 5$ kt</i>			
Short-field takeoff and maximum performance climb <i>Checks configuration, lights, instruments, wind and power before TO, short-field liftoff, cross checks instruments in climb, $V_X \pm 5$ kt until obstacle cleared</i>			
Soft-field takeoff and climb <i>Checks configuration, lights, instruments, wind and power before TO, soft-field liftoff, cross checks instruments in climb, V_X or $V_Y \pm 5$ kt</i>			
Normal and crosswind approach and landing <i>Stabilized approach, $A/S \pm 5$ kt, smooth roundout and touchdown, maintains X-W correction</i>			
Short-field approach and landing <i>Stabilized approach, $A/S \pm 5$ kt, smooth roundout and touchdown within specified area, maintains X-W correction</i>			
Soft-field approach and landing <i>Stabilized approach, $A/S \pm 5$ kt, smooth roundout and soft-field touchdown procedures, maintains X-W correction</i>			
Slip to a landing <i>Considers X-W, stabilized slip, precise ground track, smooth, timely transition to touchdown</i>			

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Go-Around/Rejected Landing <i>Makes timely decision, climb power and pitch for V_X/V_Y, ± 5 kt, flaps & gear up as appropriate</i>			
Power-off 180° accuracy approach and landing <i>Identifies key points, corrects for wind, coordinated, stabilized approach, lands specified area</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading $\pm 5^\circ$, altitude ± 50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ± 50 ft, rollout on heading $\pm 5^\circ$</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, leveloff ± 50 ft, rollout/maintain heading $\pm 5^\circ$</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, leveloff ± 50 ft, rollout/maintain heading $\pm 5^\circ$</i>			
Performance manoeuvres			
Steep Turns <i>Smooth, coordinated, flight controls, bank $\pm 5^\circ$, altitude ± 50 ft, rollout/maintain heading $\pm 10^\circ$</i>			
Steep Spirals <i>Coordinated controls, proper airspeed, power setting, constant radius around selected point</i>			
Chandelles <i>Proper entry airspeed, power setting, coordinated, max performance</i>			
Ground reference manoeuvres			
Turns around a point <i>Suitable altitude, airspeed, reference point, corrects for wind, alt ± 100 ft, aware emergency options</i>			
S-turns across a road <i>Suitable altitude, airspeed, reference line, corrects for wind, alt ± 100 ft, aware emergency options</i>			
Rectangular course <i>Suitable altitude, airspeed, reference lines, corrects for wind, alt ± 100 ft, aware emergency options</i>			
Slow flight, stalls and spins			
Manoeuvring During Slow Flight <i>Entry alt so completed $\geq 1,500$ ft AGL, Alt ± 50 ft, Hdg $\pm 10^\circ$, bank $\pm 5^\circ$ (if turn), A/S + 5/-0 kt</i>			
Power-On Stalls (Proficiency) <i>Entry alt so recovery $\geq 1,500$ ft AGL, Hdg $\pm 10^\circ$, bank $\pm 5^\circ$ (if turn), appropriate flap and gear up</i>			
Power-Off Stalls (Proficiency) <i>Entry alt so recovery $\geq 1,500$ ft AGL, Hdg $\pm 10^\circ$, bank $\pm 5^\circ$ (if turn), appropriate flap and gear dn</i>			
Secondary stalls (demonstration) <i>Entry alt so recovery $\geq 1,500$ ft AGL, Hdg, appropriate flap and gear, improper stall recovery</i>			
Spin Awareness <i>Aerodynamic factors, flight situations, recovery procedures from unintentional spin</i>			
Accelerated manoeuvres stalls (demonstration) <i>Entry alt so recovery $\geq 3,000$ ft AGL, A/S $> V_A$, 20 kt $> V_{S1}$, 45° bank</i>			
Basic instrument manoeuvres			
Straight-and-level flight (IR) <i>Coordinated controls trimmed, Alt ± 100 ft, Hdg $\pm 10^\circ$</i>			
Constant airspeed climbs (IR) <i>Coordinated controls trimmed, Hdg $\pm 10^\circ$, A/S ± 5 kt, level off Alt ± 50 ft</i>			
Constant airspeed descents (IR) <i>Coordinated controls trimmed, Hdg $\pm 10^\circ$, A/S ± 5 kt, level off Alt ± 50 ft</i>			

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Turns to headings (IR) <i>Maintains Hdg ±5°, Alt ±50 ft</i>			
Recovery from unusual flight attitudes (IR) <i>Applies correct recovery control inputs using only instrument reference</i>			
Emergency operations			
Systems and equipment malfunctions <i>Uses recommended procedures while maintaining control</i>			
Emergency descent <i>Sets configuration, A/S ±10 kt, maintains +0/-10 kt, levels off ±100 ft</i>			
Emergency approach and landing (simulated) <i>Analyzes situation, best glide ±10 kt, sets up for selects suitable landing area</i>			
Emergency equipment and survival gear <i>When, where, and how to use</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

Phase 1 completion standards:

You have completed Phase 1 when you;

- Review your home study results with your instructor
- Show ability to confidently control the aircraft from the instructor's seat
- Describe manoeuvres elements while demonstrating them
- Start analysing manoeuvres errors and correcting simulated by the instructor
- Describe the risks of each manoeuvre and mitigation strategies
- Achieve a grade of "Perform" or "Manage/Decide" on all Phase Proficiency Checklist tasks
- Complete the Phase 1 Progress Check

INSTRUCTOR NOTES:


Scenario 6 – Adding the Remaining Manoeuvres and Phase Check (1-6)

Objective:

Introduce Lazy Eights, Eights on Pylons, Cross-Controlled Stalls and Elevator Trim Stalls
Expand Spin Awareness discussion in relation to *New this scenario* stall tasks
Continue developing technique with flying and explaining the *Improving your skills* manoeuvres
Detect and correct simulated common errors on *Improving your skills* manoeuvres

Purpose/pressures (real or simulated):

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Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Identify risks involved with the new tasks and describe mitigation techniques

Identify areas for loss of collision avoidance awareness while instructing

Identify risk areas for loss of situational awareness while instructing

Teach risks involved with phase of flight/manoeuvres and appropriate mitigation

Preflight Discussion

New this scenario:

Lazy Eights

Eights on Pylons

Cross-controlled Stalls (Demonstration)

Elevator Trim Stalls (Demonstration)

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)

Airport Operations (*Scenario 1-2 ^*)

Fundamentals of Flight (*Scenario 1-2 #*)

Power-On Stalls (Proficiency)

Spin Awareness

Steep Spirals

Chandelles

Soft-Field Takeoff and Climb

Soft-Field Approach and Landing


Systems and Equipment Malfunctions

Emergency Descent

Emergency Approach and Landing (Simulated)

Postflight Discussion

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Phase 1 **Progress Check**

<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			
Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Pre-takeoff ground operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Soft-field takeoff and climb <i>Checks configuration, lights, instruments, wind and power before TO, soft-field liftoff, cross checks instruments in climb, V_X or $V_Y \pm 5$ kt</i>			
Soft-field approach and landing <i>Stabilized approach, $A/S \pm 5$ kt, smooth round out and soft-field touchdown procedures, maintains X-W correction</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading $\pm 5^\circ$, altitude ± 50 ft</i>			

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Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ± 50 ft, rollout on heading $\pm 5^\circ$</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ± 50 ft, rollout/maintain heading $\pm 5^\circ$</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ± 50 ft, rollout/maintain heading $\pm 5^\circ$</i>			
Performance manoeuvres			
Steep Spirals <i>Coordinated controls, proper airspeed, power setting, constant radius around selected point</i>			
Chandelles <i>Proper entry airspeed, power setting, coordinated, max performance</i>			
Lazy eights <i>$\sim 30^\circ$ max bank, constant change pitch and roll, ± 100 ft, ± 10 kt, $\pm 10^\circ$ heading</i>			
Ground reference manoeuvres			
Eights on pylons <i>Suitable pylons, pivotal altitude, entry max bank 30°-40°, corrects to maintain line of sight, coord.</i>			
Slow flight, stalls and spins			
Power-On Stalls (Proficiency) <i>Entry alt so recovery $\geq 1,500$ ft AGL, Hdg $\pm 10^\circ$, bank $\pm 10^\circ$ (if turn), appropriate flap and gear up</i>			
Cross-controlled stalls (demonstration) <i>Entry alt so recovery $\geq 3,000$ ft AGL</i>			
Elevator trim stalls (demonstration) <i>Entry alt so recovery $\geq 1,500$ ft AGL, trimmed for approach glide, landing configuration, full power, allowing to pitch up to stall</i>			
Spin Awareness <i>Aerodynamic factors, flight situations, recovery procedures from unintentional spin</i>			
Emergency operations			
Systems and equipment malfunctions <i>Uses recommended procedures while maintaining control</i>			
Emergency descent <i>Sets configuration, A/S ± 10 kt, maintains $+0/-10$ kt, levels off ± 100 ft</i>			
Emergency approach and landing (simulated) <i>Analyses situation, best glide ± 10 kt, sets up for selects suitable landing area</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

PHASE 2 – Gaining Proficiency Demonstrating and Explaining Manoeuvres (3S) Phase Objectives:

- a. Demonstrate all manoeuvres to standards
- b. Simultaneously explain all manoeuvres while performing them
- c. Introduce using scenarios for manoeuvres
- d. Introduce analysing and correcting common errors with advanced manoeuvres

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REQUIRED KNOWLEDGE

FLIGHT INSTRUMENTS
AIRCRAFT PERFORMANCE
WEATHER
WEIGHT AND BALANCE
COMMERCIAL
MANOEUVRES TEACHING
MANOEUVRES

2.1 FLIGHT INSTRUMENTS

Objectives: You will reacquaint yourself with the details, operating concepts and anomalies of the flight instruments. You will also review aircraft control by instrument reference and recovery from unusual flight attitudes.

2.1.1 Pitot-Static Instruments

Airspeed Errors
Altimeter Errors
True Airspeed and Altitudes

2.1.2 Heading Indicator and Magnetic Compass

Heading Indicator
Turning Errors
Acceleration and Deceleration Errors
Deviation Errors

2.1.3 Instrument Flight

Basic Instrument Manoeuvres
Unusual Attitudes

2.2 AIRCRAFT PERFORMANCE

Objectives: You will review aircraft performance factors and calculations to set the instructional foundation for these topics.

2.2.1 An Airplane's Performance Altitude

Finding Pressure Altitude
How Density Altitude Affects Performance

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2.2.2 Calculating Performance

Checking the Ground Roll
 Takeoff Distance to Clear an Obstacle
 Climb Performance
 Glide Distance
 Crosswind Component
 Landing Distance

2.3 WEATHER

Objectives: You will delve into weather theory, hazards, products, and tools to reach the knowledge level necessary for preparing new pilots to successfully manage environmental risks.

2.3.1 The Atmosphere, Pressure Systems and Fronts

Standard Atmosphere
 Pressure Systems and Wind
 Fronts
 Stability and Clouds

2.3.2 Clouds, Moisture and Stability

Moisture
 Stability
 Unstable Air
 Stable Air
 Temperature Inversions

2.3.3 Weather Hazards

Fog
 Ice and Freezing Rain
 Thunderstorms
 Microbursts
 Windshear
 Turbulence
 Mountain Wave

2.3.4 Current Weather

Surface Aviation Weather Reports
 METAR Report Rules
 Automatic Surface Observations
 PIREPs

2.3.5 Forecasts

Terminal Forecasts
 Area Forecasts
 Winds and Temperatures Aloft

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2.3.6 Weather Charts

Constant Pressure Charts
Surface Analysis Charts
Weather Depiction Charts
Low Level Prognostic Charts

2.3.7 Aids for Avoiding Hazardous Weather

Weather Advisories
Radar Weather Reports
Severe Outlook Chart

2.4 WEIGHT AND BALANCE

Objectives: You will review weight and balance principles and gain exercise doing loading calculations to enable effective instruction for new pilots.

2.4.1 Weight and Balance Principles and Calculation

Weight and Balance Principles
Locating the Center of Gravity
Using Graphs to Determine Center of Gravity
Finding New CG When Adding Weight Shifting
Weight to Move the CG

2.5 COMMERCIAL MANOEUVRES

Objectives: You will review the techniques and standards for several manoeuvres tested on the Commercial Pilot practical test.

2.5.1 Steep Turns and Steep Spirals

The Whats and Whys of Steep Turns
Load Factor and You
How to Do Great Steep Turns
Performing Steep Spirals

2.5.2 Chandelles

Introduction to the Chandelle
How to Do Chandelles
Techniques for a Perfect Chandelle

2.5.3 Lazy Eights

Introduction to Lazy Eights
How to Do Lazy Eights
Techniques for Perfect Lazy Eights

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2.5.4 Eights on Pylons

Introduction to Eights On Pylons
How to Do Eights On Pylons
Techniques for Perfect Eights On Pylons

2.5.5 Power-off Approach

How to do Power-Off 180° Accuracy Approaches and Landings

2.6 TEACHING MANOEUVRES

Objectives: You will learn instructional concepts and techniques for various flight manoeuvres and review the information on Aeronautical Decision Making.

2.6.1 Teaching Aircraft Control

The Basics of Aircraft Control

2.6.2 Aeronautical Decision Making

Managing the Pilot Risk Factor
Hazardous Attitudes and Antidotes

2.6.3 Teaching Flight Manoeuvres

Turns
Takeoffs and Landings
Rectangular Course
Turns Around a Point
S-Turns Across a Road
Chandelles
Lazy Eights
Eights on Pylons

Scenario 1 – Refining Commercial Pilot Manoeuvres and Stalls (2-1)

Objective:

Meet defined skill standards with each task
Polish skill demonstrating and explaining task manoeuvres
Refine ability to detect and correct simulated manoeuvres common errors
Develop simple scenarios to incorporate listed tasks and identify associated risks

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

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Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Teach risks involved with phase of flight/manoeuvres and appropriate mitigation Identify areas for loss of collision avoidance awareness while instructing Identify risk areas for loss of situational awareness while instructing

Preflight Discussion

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Lazy Eights
Eights on Pylons
Power-On Stalls (Proficiency)
Cross-controlled Stalls (Demonstration)
Elevator Trim Stalls (Demonstration)
Spin Awareness
Slip to a Landing
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Go-Around/Rejected Landing
Power-Off 180° Accuracy Approach and Landing

Postflight Discussion

Scenario 2– Sharpening Short/Soft Field Ops and Ground Reference Manoeuvres (2-2)

Objective:

Meet defined skill standards with each task
Polish skill demonstrating and explaining task manoeuvres
Refine ability to detect and correct simulated manoeuvres common errors
Develop simple scenarios to incorporate listed tasks and identify associated risks

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

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Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Teach risks involved with phase of flight/manoeuvres and appropriate mitigation
Identify areas for loss of collision avoidance awareness while instructing Identify
risk areas for loss of situational awareness while instructing

Preflight Discussion

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Go-Around/Rejected Landing
Slip to a Landing
Power-Off 180° Accuracy Approach and Landing
Steep Turns
Rectangular Course
S-Turns across a Road
Turns Around a Point
Eights on Pylons
Emergency Approach and Landing (Simulated)
Emergency Descent


Postflight Discussion

Scenario 3 – Building Confidence Demonstrating Commercial Manoeuvres (2-3)

Scenario Objectives:

Meet defined skill standards with each task
Polish skill demonstrating and explaining task manoeuvres
Continue detecting and correcting simulated manoeuvres common
errors.

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Continue developing appropriate scenarios for manoeuvres

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Teach risks involved with phase of flight/manoeuvres and appropriate mitigation techniques
Identify enhanced risk areas due to the instructional environment
Develop mitigation strategies for enhanced risk due to the instructional environment

Preflight Discussion


Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Power-Off 180° Accuracy Approach and Landing
Steep Spirals
Chandelles
Lazy Eights
Eights on Pylons
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Accelerated Manoeuvres Stalls (Demonstration)
Spin Awareness
Emergency Equipment and Survival Gear

Postflight Discussion

Phase 2 Ground Training Checklist

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<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Explain”</i></p>	Instruction Given	Describe	Explain
Pitot-static instrument operation/errors			
True/indicated airspeed and altitude			
Heading indicator and compass			
Weather systems and hazards			
Weather products			
Aircraft performance			
Weight and balance			
Fundamental manoeuvres			
Takeoffs and landings			
Ground reference manoeuvres			
Performance manoeuvres			
Control using the flight instruments			

Phase 2 Proficiency Checklist


<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			
Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Controlled flight into terrain awareness (CFIT) <i>Identifies those areas of an instructional flight with elevated CFIT risk</i>			
Pre-takeoff Ground Operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			

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Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Short-field takeoff and maximum performance climb <i>Required standard</i>			
Soft-field takeoff and climb <i>Required standard</i>			
Short-field approach and landing <i>Required standard</i>			
Soft-field approach and landing <i>Required standard</i>			
Slip to a landing <i>Required standard</i>			
Go-Around/Rejected Landing <i>Required standard</i>			
Power-off 180° accuracy approach and landing <i>Required standard</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading ±5°, altitude ±50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ±50 ft, rollout on heading ±5°</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Performance manoeuvres			
Steep Turns <i>Required standard</i>			
Steep Spirals <i>Required standard</i>			
Chandelles <i>Required standard</i>			
Lazy eights <i>Required standard</i>			
Ground reference manoeuvres			

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Turns around a point <i>Required standard</i>			
S-turns across a road <i>Required standard</i>			
Rectangular course <i>Required standard</i>			
Eights on pylons <i>Required standard</i>			
Slow flight, stalls and spins			
Power-On Stalls (Proficiency) <i>Required standard</i>			
Power-Off Stalls (Proficiency) <i>Required standard</i>			
Cross-controlled stalls (demonstration) <i>Required standard</i>			
Elevator trim stalls (demonstration) <i>Required standard</i>			
Spin Awareness <i>Required standard</i>			
Accelerated manoeuvres stalls (demonstration) <i>Required standard</i>			
Emergency operations			
Emergency descent <i>Required standard</i>			
Emergency approach and landing (simulated) <i>Required standard</i>			
Emergency equipment and survival gear <i>Required standard</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

Phase 2 completion standards:

You have completed Phase 2 when you;

- Review your home study results with your instructor
- Demonstrate all manoeuvres to standards
- Begin using scenarios to incorporate manoeuvres
- Simultaneously explain each manoeuvre while demonstrating it
- Start analysing and correcting errors with advanced manoeuvres
- Continue assessing the risks of each manoeuvre and developing mitigation strategies
- Achieve a grade of “Perform” or “Manage/Decide” on all Phase Proficiency Checklist tasks

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- Complete the Phase 2 Progress Check

INSTRUCTOR NOTES:

Scenario 4 – Demonstrating/Explaining Manoeuvres and Phase Check (2-4)

Scenario Objectives:

Meet defined skill standards with each task Explain
each task manoeuvres while demonstrating it
Evaluate simulated student manoeuvres performance correcting simulated errors
Use scenarios effectively

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Teach risks involved with phase of flight/manoeuvres and appropriate mitigation techniques
Identify enhanced risk areas due to the instructional environment
Employ mitigation strategies for enhanced risk due to the instructional environment

Preflight Discussion

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Slip to a Landing
Go-Around/Rejected Landing
Power-Off 180° Accuracy Approach and Landing

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Steep Spirals
 Chandelles
 Lazy Eights
 S-Turns Across a Road
 Eights on Pylons
 Cross-controlled Stalls (Demonstration)
 Elevator Trim Stalls (Demonstration)
 Secondary Stalls (Demonstration)
 Accelerated Manoeuvres Stalls
 (Demonstration) Spin Awareness
 Emergency Approach and Landing (Simulated)
 Systems and Equipment Malfunctions
 Emergency Descent

Postflight Discussion

Phase 2 **Progress Check**

<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			
Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Controlled flight into terrain awareness (CFIT) <i>Identifies those areas of an instructional flight with elevated CFIT risk</i>			
Pre-takeoff Ground Operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			

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Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Short-field takeoff and maximum performance climb <i>Checks configuration, lights, instruments, wind and power before TO, short-field liftoff, cross checks instruments in climb, $V_X \pm 5$ kt until obstacle cleared</i>			
Soft-field takeoff and climb <i>Checks configuration, lights, instruments, wind and power before TO, soft-field liftoff, cross checks instruments in climb, V_X or $V_Y \pm 5$ kt</i>			
Short-field approach and landing <i>Stabilized approach, A/S ± 5 kt, smooth roundout and touchdown within specified area, maintains X-W correction</i>			
Soft-field approach and landing <i>Stabilized approach, A/S ± 5 kt, smooth roundout and soft-field touchdown procedures, maintains X-W correction</i>			
Slip to a landing <i>Considers X-W, stabilized slip, precise ground track, smooth, timely transition to touchdown</i>			
Go-Around/Rejected Landing <i>Makes timely decision, climb power and pitch for V_X/V_Y, A/S ± 5 kt, flaps & gear up as appropriate</i>			

Power-off 180° accuracy approach and landing <i>Identifies key points, corrects for wind, coordinated, stabilized approach, lands specified area</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading $\pm 5^\circ$, altitude ± 50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ± 50 ft, rollout on heading $\pm 5^\circ$</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ± 50 ft, rollout/maintain heading $\pm 5^\circ$</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ± 50 ft, rollout/maintain heading $\pm 5^\circ$</i>			
Performance manoeuvres			
Steep Spirals <i>Coordinated controls, proper airspeed, power setting, constant radius around selected point</i>			
Chandelles <i>Proper entry airspeed, power setting, coordinated, max performance</i>			
Lazy eights <i>$\sim 30^\circ$ max bank, constant change pitch and roll, ± 100 ft, ± 10 kt, $\pm 10^\circ$ heading</i>			

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Ground reference manoeuvres			
S-turns across a road <i>Suitable altitude, airspeed, reference line, corrects for wind, alt ±100 ft, aware emergency options</i>			
Eights on pylons <i>Suitable pylons, pivotal altitude, entry max bank 30°-40°, corrects to maintain line of sight, coord.</i>			
Slow flight, stalls and spins			
Cross-controlled stalls (demonstration) <i>Entry alt so recovery ≥ 3,000 ft AGL</i>			
Elevator trim stalls (demonstration) <i>Entry alt so recovery ≥ 1,500 ft AGL, trimmed for approach glide, landing configuration, full power, allowing to pitch up to stall</i>			
Secondary stalls (demonstration) <i>Entry alt so recovery ≥ 1,500 ft AGL, Hdg, appropriate flap and gear, improper stall recovery</i>			
Spin Awareness <i>Aerodynamic factors, flight situations, recovery procedures from unintentional spin</i>			
Accelerated manoeuvres stalls (demonstration) <i>Entry alt so recovery ≥ 3,000 ft AGL, A/S > V_A, 20 kt > V_{S1}, 45° bank</i>			
Emergency operations			
Systems and equipment malfunctions <i>Uses recommended procedures while maintaining control</i>			
Emergency descent <i>Sets configuration, A/S ±10 kt, maintains +0/-10 kt, levels off ±100 ft</i>			
Emergency approach and landing (simulated) <i>Analyzes situation, best glide ±10 kt, sets up for selects suitable landing area</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

PHASE 3 – *Refining Instructional Skills*

(3S) Phase Objectives:

- a. Introduce planning instructional flight
- b. Expand scenario development for all manoeuvres
- c. Refine manoeuvres error analysis and correction


REQUIRED KNOWLEDGE

COMMUNICATIONS AND RADAR SERVICES

RADIO NAVIGATION

FUNDAMENTALS OF INSTRUCTING

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3.1 COMMUNICATIONS AND RADAR SERVICES

Objective: You will review communications concepts and techniques necessary to teach safe and effective operations around airports and in the National Airspace System.

3.1.1 Communications and Radar Services

Non-Tower Airport Advisory, UNICOM
ATIS, Radio Aids Box
Transponder Codes, Traffic Advisories and Radio Failure

3.2 RADIO NAVIGATION

Objective: You will review the basics of ground based VOR systems, testing accuracy and estimating your position.

3.2.1 VOR Navigation

VOR Orientation
VORTAC/DME

3.2.2 Estimating Your Position and Checking Your VOR

Off Course Indicators
Time and Distance
VOT

3.3 FUNDAMENTALS OF INSTRUCTING

Objective: You will learn the concepts of human behaviour, effective communication, the learning process, assessing performance, and risk management essential for effective teaching and responsible flight instruction.

3.3.1 The Learning Process

Characteristics of Learning
Principles of Learning
Perceptions
Insights
Motivation
Levels of Learning
Domains of Learning

3.3.2 Physical Skills, Memory, and Transfer of Learning

Learning Skills
Memory
Forgetting and Retention
Transfer of Learning

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3.3.3 Human Behaviour

Human Needs
Defence Mechanisms
The Instructor Role in Human Relations
Effective Communication

3.3.4 The Teaching Process

Teaching Steps
Lesson Sequence
Lecture
Cooperative or Group Learning
Guided Discussion
Demonstration/Performance
Computer Based Training

3.3.5 Critique, Evaluation and Instructional Aids

The Instructor As a Critic
Oral Quizzing
Written Tests
Performance Tests
Instructional Aids

3.3.6 Flight Instructor Responsibilities

Professionalism
Helping Student Pilots Learn
Endorsing a Student for Solo Flight
The Flight Instructor as a Practical Psychologist

3.3.7 Flight Instruction and Planning Lessons

Techniques of Flight Instruction
Obstacles to Learning
Identifying Blocks of Learning
Lesson Plans

Scenario 1 Delivering a Private Pilot Flight Lesson (3-1)

Objective:

Plan an instructional flight covering the assigned tasks
Introduce some manoeuvres as new to the pilot being trained
Evaluate simulated student performance and correct errors on manoeuvres previously introduced

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

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Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Incorporate scenarios to encourage student risk analysis and mitigation strategies
Demonstrate pilot-in-command level risk management of training scenario

Preflight Discussion


Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Normal and Crosswind Takeoff and Climb
Normal and Crosswind Approach and Landing
Slip to a Landing
Go-Around/Rejected Landing
Steep Turns
Rectangular Course
S-Turns across a Road
Turns Around a Point
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Straight-and-Level Flight (IR)
Constant Airspeed Climbs (IR)
Constant Airspeed Descents (IR)
Turns to Headings (IR)
Recovery from Unusual Flight Attitudes (IR)
Emergency Approach and Landing (Simulated)
Systems and Equipment Malfunctions
Emergency Descent

Postflight Discussion

Scenario 2 – Delivering a Commercial Pilot Flight Lesson (3-2)

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Objective:

Plan an instructional flight covering the assigned tasks
Introduce some manoeuvres as new to the pilot being trained
Evaluate simulated student performance and correct errors on manoeuvres previously introduced

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Incorporate scenarios to encourage student risk analysis and mitigation strategies
Demonstrate pilot-in-command level risk management of training scenario

Preflight Discussion

Improving your skills:

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Power-Off 180° Accuracy Approach and Landing
Steep Spirals
Chandelles
Lazy Eights
Eights on Pylons
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Accelerated Manoeuvre Stalls (Demonstration)
Emergency Approach and Landing (Simulated)
Systems and Equipment Malfunctions

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Emergency Equipment and Survival Gear
Emergency Descent

Postflight Discussion


Phase 3 Ground Training Checklist

<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Explain”</i></p>	Instruction Given	Describe	Explain
Non-tower airport communications			
Radar services/transponder codes			
Radio failure			
VOR use			
Learning process			
Memory, transfer of learning			
Human behaviour			
Teaching process			
Evaluation and assessment			
CFI responsibilities			
Techniques of flight instruction			
Lesson planning			

Phase 3 Proficiency Checklist


<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			
Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			

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Controlled flight into terrain awareness (CFIT) <i>Identifies those areas of an instructional flight with elevated CFIT risk</i>			
Pre-takeoff Ground Operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Normal and crosswind takeoff and climb <i>Required standard</i>			
Short-field takeoff and maximum performance climb <i>Required standard</i>			
Soft-field takeoff and climb <i>Required standard</i>			
Normal and crosswind approach and landing <i>Required standard</i>			
Short-field approach and landing <i>Required standard</i>			
Soft-field approach and landing <i>Required standard</i>			
Slip to a landing <i>Required standard</i>			
Go-Around/Rejected Landing <i>Required standard</i>			
Power-off 180° accuracy approach and landing <i>Required standard</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading ±5°, altitude ±50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ±50 ft, rollout on heading ±5°</i>			


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Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Performance manoeuvres			
Steep Turns <i>Required standard</i>			
Steep Spirals <i>Required standard</i>			
Chandelles <i>Required standard</i>			
Lazy eights <i>Required standard</i>			
Ground reference manoeuvres			
Turns around a point <i>Required standard</i>			
S-turns across a road <i>Required standard</i>			
Rectangular course <i>Required standard</i>			
Eights on pylons <i>Required standard</i>			

Slow flight, stalls and spins			
Manoeuvring During Slow Flight <i>Required standard</i>			
Power-On Stalls (Proficiency) <i>Required standard</i>			
Power-Off Stalls (Proficiency) <i>Required standard</i>			
Accelerated manoeuvres stalls (demonstration) <i>Required standard</i>			
Basic instrument manoeuvres			
Straight-and-level flight (IR) <i>Required standard</i>			
Constant airspeed climbs (IR) <i>Required standard</i>			
Constant airspeed descents (IR) <i>Required standard</i>			
Turns to headings (IR) <i>Required standard</i>			
Recovery from unusual flight attitudes (IR) <i>Required standard</i>			
Emergency operations			
Systems and equipment malfunctions <i>Required standard</i>			

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Emergency descent <i>Required standard</i>			
Emergency approach and landing (simulated) <i>Required standard</i>			
Emergency equipment and survival gear <i>Required standard</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

Phase 3 completion standards:

You have completed Phase 3 when you;

- Review your home study results with your instructor
- Demonstrate all manoeuvres to standards
- Demonstrate planning a primary level instructional flight
- Develop scenarios to incorporate all manoeuvres in this phase
- Demonstrate detection of common manoeuvres errors and provide corrective instruction
- Achieve a grade of “Perform” or “Manage/Decide” on all Phase Proficiency Checklist tasks
- Complete the Phase 3 Progress Check

INSTRUCTOR NOTES:

Scenario 3 – Delivering an Advanced Pilot Flight Lesson and Phase/Stage Check (3-3)

Objective:

Plan an instructional flight covering the assigned tasks
Introduce some manoeuvres as new to the pilot being trained
Evaluate simulated student performance and correct errors on manoeuvres previously introduced
Conduct Phase/Stage progress check

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment


Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

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Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Incorporate scenarios to encourage student risk analysis and mitigation strategies
Demonstrate pilot-in-command level risk management of training scenario

Preflight Discussion

Improving your skills:


Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Normal and Crosswind Takeoff and Climb
Normal and Crosswind Approach and Landing
Go-Around/Rejected Landing
Power-Off 180° Accuracy Approach and Landing
Lazy Eights
Eights on Pylons
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Cross-controlled Stalls (Demonstration)
Elevator Trim Stalls (Demonstration)
Secondary Stalls (Demonstration)
Accelerated Manoeuvres Stalls
(Demonstration)
Emergency Approach and Landing (Simulated)
Systems and Equipment Malfunctions
Emergency Equipment and Survival Gear
Emergency Descent

Postflight Discussion

Phase 3 **Progress Check**


<p><i>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</i></p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			

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Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Controlled flight into terrain awareness (CFIT) <i>Identifies those areas of an instructional flight with elevated CFIT risk</i>			
Pre-takeoff Ground Operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Normal and crosswind takeoff and climb <i>Required standard</i>			
Normal and crosswind approach and landing <i>Required standard</i>			
Go-Around/Rejected Landing <i>Required standard</i>			
Power-off 180° accuracy approach and landing <i>Required standard</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading ±5°, altitude ±50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ±50 ft, rollout on heading ±5°</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			

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Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Performance manoeuvres			
Lazy eights <i>Required standard</i>			
Ground reference manoeuvres			
Eights on pylons <i>Required standard</i>			
Slow flight, stalls and spins			
Manoeuvring During Slow Flight <i>Required standard</i>			
Power-On Stalls (Proficiency) <i>Required standard</i>			
Power-Off Stalls (Proficiency) <i>Required standard</i>			
Cross-controlled stalls (demonstration) <i>Required standard</i>			
Elevator trim stalls (demonstration) <i>Required standard</i>			
Secondary stalls (demonstration) <i>Required standard</i>			
Accelerated manoeuvres stalls (demonstration) <i>Required standard</i>			
Emergency operations			
Systems and equipment malfunctions <i>Required standard</i>			
Emergency descent <i>Required standard</i>			
Emergency approach and landing (simulated) <i>Required standard</i>			
Emergency equipment and survival gear <i>Required standard</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

STAGE 2 – ***Becoming a Flight Instructor***

(1P) Stage Objectives:

- a. Perform all flight tasks exceeding minimum skill standards
- b. Demonstrate instructional knowledge of each task
- c. Simultaneously explain each manoeuvre while demonstrating it
- d. Demonstrate instructional knowledge of risk management considerations of each task

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- e. Identify and manage instructional risks involved with each task
- f. Demonstrate instructional knowledge of common errors of each manoeuvre
- g. Analyse and correct simulated errors when teaching manoeuvres
- h. Incorporate scenarios when teaching manoeuvres
- i. Complete all Knowledge Lessons
- j. Complete FIA test

PHASE 4 – ***Demonstrating Instructional Competence***

(2S) Phase Objectives:

- a. Demonstrate all Manoeuvres to standards while simultaneously explaining how to fly them
- b. Introduce manoeuvres to simulated pilots in training
- c. Correct pilot-in-training simulated errors
- d. Teach manoeuvres appropriate risk surveillance and mitigation
- e. Demonstrate active instructional level risk awareness, identification and mitigation

REQUIRED KNOWLEDGE

CROSS-COUNTRY PLANNING **FLIGHT OPERATIONS**

ADVANCED GROUND INSTRUCTOR

4.1 CROSS-COUNTRY PLANNING

Objective: You will reacquaint yourself and sharpen your knowledge of cross-country preflight planning, in-flight calculations, and diversion in preparation for teaching those concepts to new pilots.

4.1.1 Preflight and Inflight Cross-Country Calculations

Fuel Required and Range
Wind Triangle, Course and Heading (MM: Keep triangle?)
Ground Speed and Fuel Consumed
Distance and Time to Climb
Magnetic Heading and Ground Speeds
Determining the Wind
Distance Travelled and Indicated Airspeed
Off-Course Correction and Diverting to an Alternate

4.2 FLIGHT OPERATIONS

Objective: You will review flight planning products, aircraft and engine systems, cold weather and icing, taxiing with wind, collision avoidance, flight physiological factors, visual glide slopes, and airport marking and lighting.

4.2.1 Preflight Planning

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Flight Plans
Chart Supplement
NOTAMs

4.2.2 Airplane Systems

Fuel Systems
Engines
Propellers
Constant Speed Propellers
Engine Ignition Systems
Electrical Systems

4.2.3 Engine Operations

Mixture
Overheating
Detonation and Pre-Ignition

4.2.4 Induction Icing and Cold Weather Operations

Induction and Impact Icing
Cold Weather Operations

4.2.5 Taxiing in the Wind and Collision Avoidance

Taxiing in the Wind
Avoiding Midairs
Scanning for Traffic

4.2.6 Aeromedical Factors

Hypoxia
Oxygen
Alcohol, Hyperventilation, and Scuba Diving
Motion Sickness, Spatial Disorientation and Vision

4.2.7 Visual Glide Slopes, Airport Markings and Lighting

2 Bar and 3 Bar VASI
PAPI
Airport Markings
Airport Lighting
Segmented Circle

4.3 ADVANCED GROUND INSTRUCTOR

Objective: You will review the expected knowledge concepts and learn the privileges of an Advanced

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Ground Instructor.

4.3.1 Advanced Ground Instructor

V-Speeds and Terms
Regulations
Ground Instructor Privileges

Scenario 1 – Elementary Task and Risk Management Review (4-1)

Objective:

Display command of all manoeuvres surpassing minimum standards
Display instructional knowledge of risk and risk mitigation factors for each manoeuvres
Display instructional knowledge and ability to explain the elements of each task

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Teach risks and mitigation factors when demonstrating each manoeuvres
Explain instructional risks and mitigation techniques for each manoeuvres

Preflight Discussion:

Reviewing your Skills

Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
Airport Operations (*Scenario 1-2 ^*)
Fundamentals of Flight (*Scenario 1-2 #*)
Normal and Crosswind Takeoff and Climb
Normal and Crosswind Approach and Landing
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Slip to a Landing

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Go-Around/Rejected Landing
Rectangular Course
S-Turns across a Road
Turns Around a Point
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Straight-and-Level Flight (IR)
Constant Airspeed Climbs (IR)
Constant Airspeed Descents (IR)
Turns to Headings (IR)
Recovery from Unusual Flight Attitudes (IR)
Systems and Equipment Malfunctions

Postflight Discussion

Scenario 2 – Advanced Task and Risk Management Review (4-2)

Scenario Objectives:

Display command of all manoeuvres surpassing minimum standards
Display instructional knowledge of risk and risk mitigation factors for each manoeuvres
Display instructional knowledge and ability to explain the elements of each task

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None


Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Teach risks and mitigation factors when demonstrating each manoeuvres
Explain instructional risks and mitigation techniques for each manoeuvres

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Preflight Discussion

Reviewing your Skills:


Pre-takeoff/After Landing Ground Operations (*Scenario 1-2 **)
 Airport Operations (*Scenario 1-2 ^*)
 Fundamentals of Flight (*Scenario 1-2 #*)
 Short-Field Takeoff and Maximum Performance Climb
 Short-Field Approach and Landing
 Power-Off 180° Accuracy Approach and Landing
 Steep Turns
 Steep Spirals
 Chandelles
 Lazy Eights
 Eights on Pylons
 Cross-controlled Stalls (Demonstration)
 Elevator Trim Stalls (Demonstration)
 Secondary Stalls (Demonstration)
 Spin Awareness
 Accelerated Manoeuvres Stalls (Demonstration)
 Emergency Approach and Landing (Simulated)
 Systems and Equipment Malfunctions (Including Landing Gear Extension Failure)
 Emergency Equipment and Survival Gear
 Emergency Descent

Postflight Discussion

Phase 4 Ground Training Checklist

<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Explain”</i></p>	Instruction Given	Describe	Explain
Cross-country planning			
Cross-country in-flight calculations			
Diversion to alternate			
Airplane systems			
Engine operation			
Cold weather operations			
Aeromedical factors			
Visual glideslopes			
Airport signs, markings, and lighting			
Practical test prep			


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Phase 4 Proficiency Checklist


<p>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
Single-pilot resource management			
Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Controlled flight into terrain awareness (CFIT) <i>Identifies those areas of an instructional flight with elevated CFIT risk</i>			
Pre-takeoff Ground Operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Normal and crosswind takeoff and climb <i>Required standard</i>			
Short-field takeoff and maximum performance climb <i>Required standard</i>			
Soft-field takeoff and climb <i>Required standard</i>			
Normal and crosswind approach and landing <i>Required standard</i>			

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Short-field approach and landing <i>Required standard</i>			
Soft-field approach and landing <i>Required standard</i>			
Slip to a landing <i>Required standard</i>			
Go-Around/Rejected Landing <i>Required standard</i>			
Power-off 180° accuracy approach and landing <i>Required standard</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading ±5°, altitude ±50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ±50 ft, rollout on heading ±5°</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Performance manoeuvres			
Steep Turns <i>Required standard</i>			
Steep Spirals <i>Required standard</i>			
Chandelles <i>Required standard</i>			
Lazy eights <i>Required standard</i>			
Ground reference manoeuvres			
Turns around a point <i>Required standard</i>			
S-turns across a road <i>Required standard</i>			
Rectangular course <i>Required standard</i>			
Eights on pylons <i>Required standard</i>			
Slow flight, stalls and spins			
Manoeuvring During Slow Flight <i>Required standard</i>			
Power-On Stalls (Proficiency) <i>Required standard</i>			
Power-Off Stalls (Proficiency) <i>Required standard</i>			
Cross-controlled stalls (demonstration) <i>Required standard</i>			

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Elevator trim stalls (demonstration) <i>Required standard</i>			
Secondary stalls (demonstration) <i>Required standard</i>			
Spin Awareness <i>Required standard</i>			
Accelerated manoeuvres stalls (demonstration) <i>Required standard</i>			
Basic instrument manoeuvres			
Straight-and-level flight (IR) <i>Required standard</i>			
Constant airspeed climbs (IR) <i>Required standard</i>			
Constant airspeed descents (IR) <i>Required standard</i>			
Turns to headings (IR) <i>Required standard</i>			
Recovery from unusual flight attitudes (IR) <i>Required standard</i>			
Emergency operations			
Systems and equipment malfunctions <i>Required standard</i>			
Emergency descent <i>Required standard</i>			
Emergency approach and landing (simulated) <i>Required standard</i>			
Emergency equipment and survival gear <i>Required standard</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

Phase 4 completion standards:

You have completed Phase 4 when you

- Review your home study results with your instructor
- Demonstrate all manoeuvres to standards while simultaneously explaining how to fly them
- Introduce manoeuvres to simulated pilots in training
- Correct pilot-in-training errors
- Demonstrate ability to teach appropriate risk surveillance and mitigation
- Demonstrate active instructional level risk awareness, identification, and mitigation
- Achieve a grade of “Perform” or “Manage/Decide” on all Phase Proficiency Checklist tasks

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- Complete the Phase 4 Progress Check

INSTRUCTOR NOTES:

Scenario 3 – Final Phase/Stage Check (4-3)

Objective:

Check instructor selects at least the minimum tasks required for an actual practical test
Check instructor conducts scenario as a mock instructor practical test
Instructor applicant breaks down each manoeuvres and explains its basic elements while demonstrating the manoeuvres

Purpose/pressures (real or simulated):

Obtaining Flight Instructor Certificate
Aviation Employment

Where to go:

Training area

How to get there:

Pilotage, DR, Electronic Navigation

Planned deviations:

None

Planned malfunctions:

As specified by tasks

Risks (real or simulated):

Instructor applicant Identifies risk areas involved with each manoeuvres assigned
Instructor applicant teaches risks and mitigation techniques involved with each manoeuvres/task
Instructor applicant maintains active risk surveillance throughout the flight

Preflight Discussion

Checking your Skills:

Preflight Inspection
Cockpit Management
Engine Starting
Taxiing
Before Takeoff Check
Radio Communications and ATC Light Signals
Traffic Patterns
Airport, Runway and Taxiway Signs, Markings, and Lighting
Normal and Crosswind Takeoff and Climb
Normal and Crosswind Approach and Landing
Short-Field Takeoff and Maximum Performance Climb
Short-Field Approach and Landing

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Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Slip to a Landing
Go-Around/Rejected Landing
Power-Off 180° Accuracy Approach and Landing
Straight-and-Level Flight
Level Turns
Straight Climbs and Climbing Turns
Straight Descents and Descending Turns
Steep Turns
Steep Spirals
Chandelles
Lazy Eights
Rectangular Course
S-Turns across a Road
Turns Around a Point
Eights on Pylons
Manoeuvring During Slow Flight
Power-On Stalls (Proficiency)
Power-Off Stalls (Proficiency)
Cross-controlled Stalls (Demonstration)
Elevator Trim Stalls (Demonstration)
Secondary Stalls (Demonstration)
Spin Awareness
Accelerated Manoeuvres Stalls
(Demonstration) Straight-and-Level Flight (IR)
Constant Airspeed Climbs (IR)
Constant Airspeed Descents (IR)
Turns to Headings (IR)
Recovery from Unusual Flight Attitudes (IR)
Emergency Approach and Landing (Simulated)
Systems and Equipment Malfunctions
Emergency Equipment and Survival Gear
Emergency Descent
Postflight Procedures

Postflight Discussion

Phase 4 ****Progress Check****


<p><i>*All items to be graded independently by the instructor and customer, then discussed and a final grade assessed.</i></p> <p><i>Desired outcome for all tasks by the end of the phase is “Perform” or “Manage/Decide”</i></p>	Practice	Perform	Manage / Decide
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Single-pilot resource management			
Risk management <i>Identifies risks both preflight and in-flight, evaluates options and chooses actions to mitigate the risks</i>			
Situational Awareness <i>Identifies potential SA risks; understands and uses cockpit tools available to enhance SA</i>			
Task management <i>Prioritizes and selects most appropriate tasks for phase of flight</i>			
Controlled flight into terrain awareness (CFIT) <i>Identifies those areas of an instructional flight with elevated CFIT risk</i>			
Pre-takeoff Ground Operations			
Preflight inspection <i>Performs preflight inspection using the checklist to confirm that all steps have been completed</i>			
Cockpit management <i>Briefs cockpit safety equipment and establishes and maintains an efficient and organized cockpit</i>			
Engine starting <i>Notes airplane position, uses checklist and safety procedures considers other persons/property</i>			
Taxiing <i>Runway incursion procedures record taxi instructions, airport diagram, full attention to taxiing</i>			
Airport, runway and taxiway signs, markings, and lighting <i>Understands and complies with airport signs, markings and lighting</i>			
Before takeoff check <i>Uses checklist for preflight, starting, run-up and all phases of flight</i>			
Airport operations			
Radio communications and ATC light signals <i>Uses correct procedures and terminology and correctly interprets simulated light signals</i>			
Traffic patterns <i>Appropriate entry/exit procedures, pattern flown, altitudes, configuration and airspeeds</i>			
In-flight operations			
Takeoffs, landings and go-arounds			
Normal and crosswind takeoff and climb <i>Required standard</i>			
Short-field takeoff and maximum performance climb <i>Required standard</i>			
Soft-field takeoff and climb <i>Required standard</i>			
Normal and crosswind approach and landing <i>Required standard</i>			
Short-field approach and landing <i>Required standard</i>			
Soft-field approach and landing <i>Required standard</i>			
Slip to a landing <i>Required standard</i>			

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Go-Around/Rejected Landing <i>Required standard</i>			
Power-off 180° accuracy approach and landing <i>Required standard</i>			
Fundamentals of flight			
Straight-and-Level Flight <i>Smooth, coordinated, effective use of flight controls, heading ±5°, altitude ±50 ft</i>			
Level Turns <i>Smooth, coordinated, effective use of flight controls, altitude ±50 ft, rollout on heading ±5°</i>			
Straight Climbs and Climbing Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Straight Descents and Descending Turns <i>Smooth, coordinated, effective use of flight controls, level off ±50 ft, rollout/maintain heading ±5°</i>			
Performance manoeuvres			
Steep Turns <i>Required standard</i>			
Steep Spirals <i>Required standard</i>			
Chandelles <i>Required standard</i>			
Lazy eights <i>Required standard</i>			
Ground reference manoeuvres			
Turns around a point <i>Required standard</i>			
S-turns across a road <i>Required standard</i>			
Rectangular course <i>Required standard</i>			
Eights on pylons <i>Required standard</i>			
Slow flight, stalls and spins			
Manoeuvring During Slow Flight <i>Required standard</i>			
Power-On Stalls (Proficiency) <i>Required standard</i>			
Power-Off Stalls (Proficiency) <i>Required standard</i>			
Cross-controlled stalls (demonstration) <i>Required standard</i>			
Elevator trim stalls (demonstration) <i>Required standard</i>			
Secondary stalls (demonstration) <i>Required standard</i>			
Spin Awareness <i>Required standard</i>			

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Accelerated manoeuvres stalls (demonstration) <i>Required standard</i>			
Basic instrument manoeuvres			
Straight-and-level flight (IR) <i>Required standard</i>			
Constant airspeed climbs (IR) <i>Required standard</i>			
Constant airspeed descents (IR) <i>Required standard</i>			
Turns to headings (IR) <i>Required standard</i>			
Recovery from unusual flight attitudes (IR) <i>Required standard</i>			
Emergency operations			
Systems and equipment malfunctions <i>Required standard</i>			
Emergency descent <i>Required standard</i>			
Emergency approach and landing (simulated) <i>Required standard</i>			
Emergency equipment and survival gear <i>Required standard</i>			
After landing ground operations			
Post-landing taxi and parking <i>Safely exits runway, uses runway incursion avoidance procedures, safe movement in parking area</i>			
Postflight procedures <i>Secures aircraft and completes appropriate checklists and postflight inspection</i>			

LIGHT INSTRUCTOR COURSE

MINIMUM COURSE HOURS AND CHRONOLOGICAL LOG

These times are for guidance only. They are a suggested time schedule which will ensure compliance with the minimum flight and ground training required. Preflight and postflight briefings are required for each flight training flight. It is suggested that you allow a minimum of .5 hour per flight for these briefings. The written exams may be credited toward the 40 hours of required ground training, and the check flights may be credited toward the 25 hours of flight training.

Date	Lesson	Minimum Total Flight Training	Instrument Flight Training	Complex Aircraft Flight Training	Total Flight Time	Ground Training
STAGE 1						
PHASE 1: DEMONSTRATING MANOEUVRES FROM THE RIGHT SEAT						
	AERODYNAMICS					3.3

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	SECTIONAL CHARTS					.3
	AIRSPACE AND WEATHER MINIMUMS					2.0
	CIVIL AVIATION REGULATIONS					3.9
	PHASE 1 GROUND TRAINING Checklist					1.8
	FLIGHT SCENARIO 1	1.4			1.4	.7
	FLIGHT SCENARIO 2	1.4			1.4	.5
	FLIGHT SCENARIO 3	1.4			1.4	.5
	FLIGHT SCENARIO 4	1.5	.3		1.5	.5
	FLIGHT SCENARIO 5	1.5	.3		1.5	.5
	FLIGHT SCENARIO 6 AND PROGRESS CHECK	1.5			1.5	.7

PHASE 2: GAINING PROFICIENCY DEMONSTRATING AND EXPLAINING MANOEUVRES

	FLIGHT INSTRUMENTS					.9
	AIRCRAFT PERFORMANCE					1.2
	WEATHER					3.6
	WEIGHT AND BALANCE					.8
	COMMERCIAL MANOEUVRES					2.0
	TEACHING MANOEUVRES					2.0
	PHASE 2 GROUND TRAINING Checklist					1.6
	FLIGHT SCENARIO 1	1.5			1.5	.5
	FLIGHT SCENARIO 2	1.5			1.5	.5
	FLIGHT SCENARIO 3	1.5			1.5	.5
	FLIGHT SCENARIO 4 AND PROGRESS CHECK	1.5			1.5	.7

Date	Lesson	Minimum Total Flight Training	Instrument Flight Training	Complex Aircraft Flight Training	Total Flight Time	Ground Training
PHASE 3: REFINING INSTRUCTIONAL SKILLS						
	COMMUNICATIONS AND RADAR SERVICES					.3
	RADIO NAVIGATION					.7
	FUNDAMENTALS OF INSTRUCTING					4.5

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	PHASE 3 GROUND TRAINING Checklist					1.5
	FLIGHT SCENARIO 1	1.6	.3		1.6	.5
	FLIGHT SCENARIO 2	1.6			1.6	.5
	FLIGHT SCENARIO 3 AND PROGRESS CHECK	1.7			1.7	.7
	TOTAL RECEIVED STAGE 1					
	TOTAL REQUIRED STAGE 1	19.6	0.9		19.6	37.7

Date	Lesson	Minimum Total Flight Training	Instrument Flight Training	Complex Aircraft Flight Training	Total Flight Time	Ground Training
STAGE 2						
PHASE 4: DEMONSTRATING INSTRUCTIONAL COMPETENCE						
	CROSS-COUNTRY PLANNING					1.2
	FLIGHT OPERATIONS					3.4
	ADVANCED GROUND INSTRUCTOR					.3
	PHASE 4 GROUND TRAINING Checklist					1.2
	FLIGHT SCENARIO 1	1.7	.3	1.7	1.7	.7
	FLIGHT SCENARIO 2	1.7		1.7	1.7	.7
	FLIGHT SCENARIO 3 AND PROGRESS CHECK	2.0	.3	2.0	2.0	1.5
	TOTAL RECEIVED STAGE 2					
	TOTAL REQUIRED STAGE 2	5.4	0.6	5.4	5.4	9.0

	TOTAL RECEIVED IN COURSE					
	MINIMUM REQUIRED	25.0	1.5	5.4	25.0	46.7

	MINIMUM REQUIRED	(a)	(a)	(a)	(a)	(a)
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GROUND TRAINING SUMMARY

Phase	Online Knowledge Lessons	Pre-flight & post-flight Briefings	Ground Training Checklist	Total
1	9.5	3.4	1.8	14.7
2	10.5	2.2	1.6	14.3
3	5.5	1.7	1.5	8.7
Stage 1 Totals	25.5	7.3	4.9	37.7
4	4.9	2.9	1.2	9.0
Stage 2 Totals	4.9	2.9	1.2	9.0
Totals	30.4	10.2	6.1	46.7

Customer aeronautical knowledge competence is assured through instructor/customer Ground Training Checklist reviews that must be demonstrated to the Explain level and the knowledge test.



Director Safety Regulation.

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