

VATO-Italy

P1 PPL – SYLLABUS

Zero Phase.

Software Download And Installation

The student has installed a simulator on his computer (FSX, FSX_SE, PREPARE 3D, X-PLANE).

The student has installed vPilot, xPilot, Swift xsquawkbox to connect to the VATSIM network.

The instructor made the student perform the opening of the firewall ports provided on the firewall in case the installed program did not perform it automatically.

The student is able to share his cockpit with the reference instructor, through direct connection or through teamviewer type software.

The student performed a radio check on unicom channel in the absence of ATC and a flight plan submission by entering a squawk code.

The student has installed TS3 and Discord software and uses software as Dolomynum, QuteScoop, VATTASTIC, etc. to locate the ATC ONLINE.

The student has installed and knows how to use TeamViewer or Skype software to share the screen or alternative to TS3.

The student knows the download section of the site, with free links, where si possible to find scenary and software concerning the simulation flight.

The Instructor helps the student to download and install the school liveries.

The instructor helps the student to send an email to VATEUD to change the Subdivision, if needed.

The student knows how his client works and connection to VATSIM.

Phase One.

Cessna 172

.Storical Background

.Normal Procedures

.Emergency Procedures

Procedural And Signage Tools

The student knows how adjust the altimeter on the QNH and QFE; he knows the differences and how to calculate it.

The student knows the airport vertical and horizontal signs.

The student knows the meaning of: runways in use.

The student knows the taxiing, take-off and landing procedures with appropriate speeds.

The student knows the configuration of the flaps in various situations.

The student knows where to find airport cartography.

Fundamental of Flight

The student describes the positive forces involved in lift and power.

The student describes the negative forces involved: Weight and Resistance.

The student knows pitch, roll and yaw axes.

The student knows the structural center of gravity.

The student knows the effects due to the stall.

Main Systems And Instruments

The student knows how to describe flaps, slats, spoilers and air-brakes; their limits and use.

The student can describe the ailerons, balancers, electrical and mechanical trims.

The student can describe the Altimeter, Anemometer and Variometer.

The student can describe the artificial, gyro-directional, turn indicator.

The student can describe the Sbando-meter, the Mother Compass and the engine instruments.

VFR Aeronautical Communications

The student can describe an AFIS and AFIU.

The student knows, to describe the structure of the ATC Bodies (GND, TWR, I_TWR,).

The student contacts the ATC by voice / chat during the flight phases with the correct phraseology (Italian / English).

The student knows the **.contact me** command when an ATC and / or a SUPERVISOR call him.

The student knows how to behave on UNICOM, writing with the correct phraseology (English).

Aeronautical Regulation Applicable To Simulation.

The student knows the codes (1200, 2000, 7000, 7500, 7600, 7700) their use and / or prohibition on the network, to be inserted on the Transponder.

The student participates in school events.

The student knows, to decode the METAR of the airport where he performs the exercises.

The student knows the VMCs in the GOLF and DELTA airspace

The student knows where to find the airport cartography and decode it, according to the scheduled exercise.

Practical Exercises

The student knows where to connect and who to contact.

The student performs taxiing, backtrack, take-off, traffic circuit, circuits legs

The student performs the go-around, low passage and / or touches and go.

The student knows how to perform a standard and abnormal traffic circuit as published.

The student performs the landing, backtrack, taxiing and parking.

Phase Two

Performance And Limitations

The student knows the take-off and landing distances.

The student knows the fuel consumption and planning.

The student knows the aircraft configuration during ascent and descent.

The student knows the cruise configuration consumption (Best Economy), autonomy (Best Range), power (Best Power).

The student knows the Density Altitude and the Pressure Altitude.

On-board Systems And Instruments: Radio assistance.

The student knows NDB and VOR operation.

The student intercept and navigate radials: VOR, QDM and QDR. He use DME.

The student reports his position on request, through VOR radials, DME distance, QDM / QDR NDB.

Practical Exercises

The student is able to keep manual flight ± 100 ft altitude, ± 10 degrees en route and ± 10 knots indicated.

The student performs the maneuvers required for the exam, left / right orbits, turns at 90 ° and 180 ° left / right.

The student decodes METAR in all its fields. Carry out the maneuvers required for the exam, ascents and descents of 1000ft.

The student knows the correct Italian and English phraseology. He also runs at least 3 (three) school events with Pirep, validated by the instructor.

The student correctly performs the entrances, exits and crossings provided by the traffic circuits.

Phase Three

VFR Aeronautical Cartography VFR

The student knows how to behave when in a uncontrolled airports.

The student knows how to obtain VFR authorizations in the controlled airports.

The student knows how to interpret the VFR zone and area in the charts.

The student is able to plan and carry out a flight using VFR charts.

The student demonstrates the ability to navigate with the help of GPS, in the right way.

VFR Meteorology

The student knows how to interpret the METAR and TAF bulletins.

The student knows how to interpret AIRMET bulletins.

The student knows how to interpret the chart of significant time in the low layers (SWLL).

The student demonstrates to make a VMC decision (fly/no fly), depending on the weather conditions at the departure and arrival airports.

The student knows how to determine if the weather conditions during the flight are compatible with the VFR.

The student knows how to recognize the danger due to the formation of ice.

VFR Aeronautical Rules

The student knows the division of airspace by classes: A / B / C / D / E / F / G.

The student is able to describe the PROIBITED, RESTRICTED and DANGEROUS areas.

The student knows what action must be taken by two aircraft that, at different altitudes, both approach landing.

The student knows the rules during special VFR and night VFR.

The student knows the correct Italian / English phraseology during all phases of the flight.

Verified Trainings And ATC services

During his practice, the student carried out 4 (four) school events, accompanied by Pirep, validated by his instructor.

The student communicates in voice and text, asks for authorizations in controlled and non-controlled airports, with phraseology (Italian / English) provided.

The student is able to describe the ATC services that may be available at the airports and during the flight.

The student knows the difference between AFIS Service and TOWER.

The student knows the difference between FIS and CTR.