

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

STUDENT NAME:

DATE AND TIME:

01. Flying slow close to stall conditions, the left wing is lower than the right wing. How can the stall be prevented?

- a) Push on the elevator, keep wings level with coordinated inputs on rudder and aileron
- b) Aileron and rudder to the right, gain some speed, push slightly on the elevator, all controls neutral
- c) Aileron to the right, push slightly on the elevator, gain some speed, all controls neutral
- d) Rudder left, push slightly on the elevator, gain some speed, all controls neutral

02. Using annex PFP-063, which ICAO chart symbol indicates a general spot elevation?

- A 300
- B (300)
- C •1737
- D •1737

PFP-063

- a) D
- b) C
- c) B
- d) A

03. In which situations should a pilot use blind transmissions?

- a) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- b) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

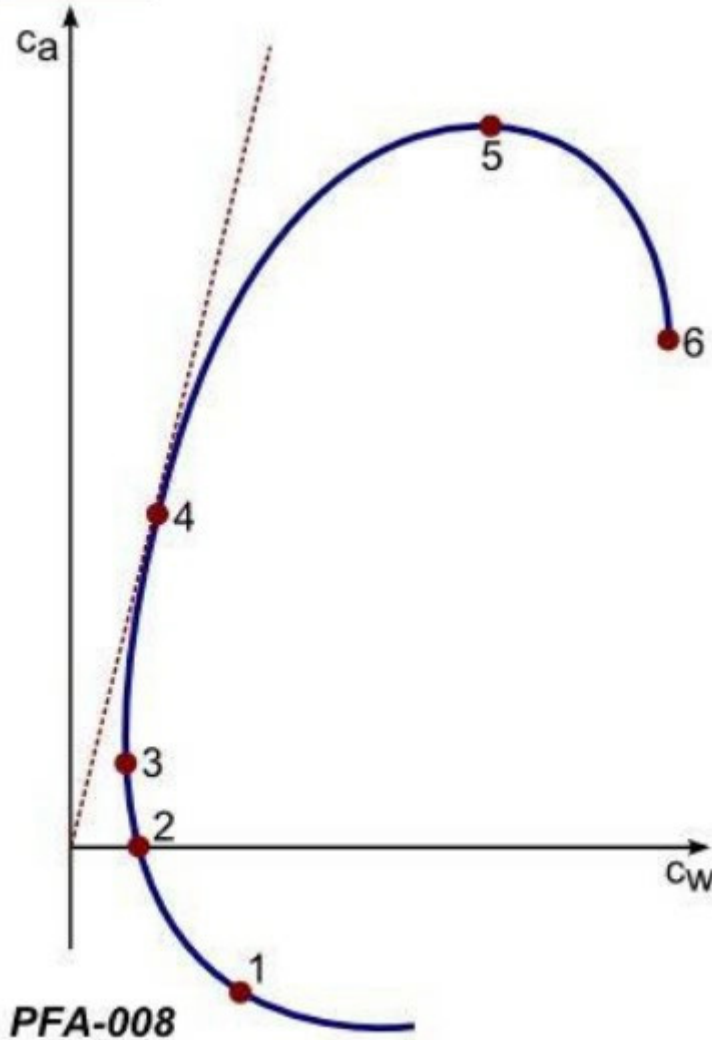
Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

04. Point number 1 in the figure indicates which flight state? See figure (PFA-008)



- a) Inverted flight
- b) Slow flight
- c) Stall
- d) Best gliding angle

05. The centre of pressure is the theoretical point of origin of...

- a) Only the resulting total drag
- b) Gravity forces of the profile
- c) All aerodynamic forces of the profile
- d) Gravity and aerodynamic forces

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

06. Through which factor listed below does the load factor increase during cruise flight?

- a) Lower air density
- b) A forward centre of gravity
- c) Higher aeroplane weight
- d) An upward gust

07. How are rhumb lines and great circles depicted on a direct Mercator chart?

- a) Rhumb lines: straight lines Great circles: curved lines
- b) Rhumb lines: straight lines Great circles: straight lines
- c) Rhumb lines: curved lines Great circles: straight lines
- d) Rhumb lines: curved lines Great circles: curved lines

08. The holder of an SPL completed 9 winch launches, 4 aerotow launches and 2 bungee launches during the last 24 months. Which launch methods may the pilot use as PIC today?

- a) Winch and bungee
- b) Winch, bungee and aero-tow
- c) Winch and aero-tow
- d) Aero-tow and bungee

09. Which characteristic is important when choosing sunglasses used by pilots?

- a) Curved sidepiece
- b) Non-polarised
- c) Unbreakable
- d) No UV filter

10. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

- a) 6500 ft
- b) 7000 ft
- c) 6250 ft
- d) 6750 ft

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

11. What does the abbreviation "FIR" stand for?

- a) Flight information region
- b) Flight integrity receiver
- c) Flow integrity required
- d) Flow information radar

12. The term "inclination" is defined as...

- a) Deviation induced by electrical fields
- b) Angle between magnetic and true north
- c) Angle between earth's magnetic field lines and horizontal plane
- d) Angle between aeroplane's longitudinal axis and true north

13. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

- a) They are not legally binding, they only serve as a guide
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are part of the EU regulation and legally binding to all EU member states
- d) They have the same status as ICAO Annexes

14. What is the meaning of the phrase "Correction"?

- a) I have received all of your last transmission
- b) I understand your message and will comply with it
- c) Permission for proposed action is granted
- d) An error has been made in this transmission. The correct version is...

15. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

- a) At an angle of 30° to the isobars towards low pressure.
- b) Perpendicular to the isobars.
- c) Parallel to the isobars.
- d) Perpendicular to the isohypses.

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

16. What structural item provides lateral stability to an aeroplane?

- a) Wing dihedral
- b) Vertical tail
- c) Differential aileron deflection
- d) Elevator

17. With different aircraft weights, the critical angle of attack is...

- a) Increases with a front centre of gravity
- b) Is changed by different aircraft weights
- c) Is not changed by different aircraft weights
- d) Decreases with a rear centre of gravity

18. An altitude of 4500 ft is transmitted as...

- a) Four five thousand
- b) Four five zero zero
- c) Four thousand five zero zero
- d) Four thousand five hundred

19. After landing, you realize you lost your pen which might have fallen down in the cockpit of the sailplane. What has to be considered?

- a) Lighter, loose bodies in the fuselage can be considered uncritical
- b) Before next take-off, the cockpit has to be firmly inspected for loose bodies
- c) A flight without a pen at hand is not permitted
- d) Succeeding pilots have to be informed about that

20. All aerodynamic forces can be considered to act on a single point. This point is called...

- a) Centre of gravity
- b) Lift point
- c) Transition point
- d) Centre of pressure

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

21. Which answer is correct concerning stress?

- a) Everybody reacts to stress in the same manner
- b) Stress and its different symptoms are irrelevant for flight safety
- c) Stress can occur if there seems to be no solution for a given problem
- d) Training and experience have no influence on the occurrence of stress

22. Which abbreviation is used for the term "visual flight rules"?

- a) VFS
- b) VRU
- c) VFR
- d) VMC

23. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?

- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

24. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

- a) 1600 UTC
- b) 1700 UTC
- c) 1500 UTC
- d) 1400 UTC

25. What phrase is used by a pilot if a transmission is to be answered with "yes"?

- a) Affirm
- b) Yes
- c) Affirmative
- d) Roger

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

26. How can you determine wind direction in case of an outlanding?

- a) Monitoring of smoke, flags, waving fields
- b) Wind forecast from flight weather report
- c) Request from other pilots who can be reached by radio
- d) Remembering the wind indicated by the windsock at departing airfield

27. Which abbreviation is used for the term "abeam"?

- a) ABB
- b) ABM
- c) ABE
- d) ABA

28. The required data for a mass and balance calculation including masses and balance arms can be found in the...

- a) Certificate of airworthiness
- b) Mass and balance section of the pilot's operating handbook of this particular aircraft
- c) Performance section of the pilot's operating handbook of this particular aircraft
- d) Documentation of the annual inspection

29. Which type of ice forms by very small water droplets and ice crystals hitting the front surfaces of an aircraft?

- a) Rime ice
- b) Clear ice
- c) Mixed ice
- d) Hoar frost

30. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...

- a) 1115 UTC
- b) 1005 UTC
- c) 1105 UTC
- d) 1052 UTC

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

31. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

- a) Request readability
- b) What is the communication like?
- c) You read me five
- d) How do you read?

32. Under which circumstances is it more likely to accept higher risks?

- a) Due to group-dynamic effects
- b) If there is not enough information available
- c) During check flights due to a high level of nervousness
- d) During flight planning when excellent weather is forecast

33. The saturated adiabatic lapse rate is...

- a) Equal to the dry adiabatic lapse rate.
- b) Higher than the dry adiabatic lapse rate.
- c) Proportional to the dry adiabatic lapse rate.
- d) Lower than the dry adiabatic lapse rate.

34. What is the call sign of the flight information service?

- a) Flight information
- b) Info
- c) Advice
- d) Information

35. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

- a) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain
- b) Dissipating clouds with unusual warming, accompanied by strong, gusty winds
- c) Calm wind and forming of high stratus clouds (high fog)
- d) Scattered cumulus clouds with showers and thunderstorms

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

36. About how many axes does an aircraft move and how are these axes called?

- a) 3; vertical axis, lateral axis, longitudinal axis
- b) 4; vertical axis, lateral axis, longitudinal axis, axis of speed
- c) 3; x-axis, y-axis, z-axis
- d) 4; optical axis, imaginary axis, sagged axis, axis of evil

37. Urgency messages are messages...

- a) Sent by a pilot or aircraft operating agency with operational information for aircraft in flight.
- b) Concerning aircraft and occupants facing grave and imminent danger and requiring immediate assistance.
- c) Concerning the operation or maintenance of facilities essential for flight safety or regularity.
- d) Concerning the safety of an aircraft, vessel, vehicle or person, but not requiring immediate distress assistance.

38. The measurement of altitude is based on the change of the...

- a) Static pressure
- b) Dynamic pressure
- c) Total pressure
- d) Differential pressure

39. When airtowing using side-located latch, the sailplane tends to...

- a) Show particularly stable flight characteristics
- b) Quickly turn around longitudinal axis
- c) Show enhanced pitch up moment
- d) Show enhanced turn to latch-mounted side

40. The angle between the true course and the true heading is called...

- a) Variation
- b) Inclination
- c) Deviation
- d) WCA

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

41. The altimeter has to be set to what value in order to show zero on ground?

- a) QTE
- b) QFE
- c) QNE
- d) QNH

42. From which altitude on does the body usually react to the decreasing atmospheric pressure?

- a) 2000 feet
- b) 10000 feet
- c) 12000 feet
- d) 7000 feet

43. Before a winch launch, you detect a light tailwind. What has to be considered?

- a) Roll until lift-off will take a little longer, watch speed
- b) A weaker rated-brake-point can be used, load will be smaller
- c) Roll until lift-off will be shorter since tailwind is pushing from behind
- d) To reach more height, full pull on the elevator after lift-off

44. The "swiss cheese model" can be used to explain the...

- a) State of readiness of a pilot
- b) Procedure for an emergency landing
- c) Optimal problem solution
- d) Error chain.

45. Rotation around the lateral axis is called...

- a) Yawing
- b) Pitching
- c) Rolling
- d) Stalling





Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

46. (For this question, please use annex PFP-062) According to ICAO, what symbol indicates a civil airport (not international airport) with paved runway?

- A 
- B 
- C 
- D 

PFP-062

- a) B
- b) C
- c) A
- d) D

47. Information about maximum allowed airspeeds can be found where?

- a) Airspeed indicator, cockpit panel and AIP part ENR
- b) POH, approach chart, vertical speed indicator
- c) POH and posting in briefing room
- d) POH, Cockpit panel, airspeed indicator

48. Urgency messages are defined as...

- a) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance
- c) Information concerning the apron personnel and which imply an imminent danger to landing aircraft
- d) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

49. Which are the advantages of sandwich structures?

- a) Low weight, high stiffness, high stability, and high strength
- b) High temperature durability and low weight
- c) High strength and good formability
- d) Good formability and high temperature durability

50. Despite several attempts, the landing gear can be extended, but not locked. How should the landing be conducted?

- a) Keep gear unlocked and perform normal landing
- b) Keep a firm grip on gear handle during normal landing
- c) Retract landing gear and perform belly landing with minimum speed
- d) Retract gear and perform belly landing with increased speed

51. Which statement about the airflow around an aerofoil is correct if the angle of attack increases?

- a) The stagnation point moves down
- b) The centre of pressure moves down
- c) The centre of pressure moves up
- d) The stagnation point moves up

52. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the right Secondary: roll to the left
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the right
- d) Primary: yaw to the left Secondary: roll to the right

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

53. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS
- c) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection is $\pm 10^\circ$
- d) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection is ± 10 NM

54. Stability around which axis is mainly influenced by the centre of gravity's longitudinal position?

- a) Longitudinal axis
- b) Lateral axis
- c) Gravity axis
- d) Vertical axis

55. What is the correct way of using the aircraft call sign at first contact?

- a) Using the last two characters only
- b) Using all characters
- c) Using the first three characters only
- d) Using the first two characters only

56. The centre of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centres of gravity of all masses are referenced
- b) The point through which the force of gravity is said to act on a mass
- c) The distance from the datum to the position of a mass
- d) The product of mass and balance arm

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

57. Which phrase is used by a pilot when he wants to fly through controlled airspace?

- a) Want
- b) Apply
- c) Would like
- d) Request

58. During a high altitude flight (6000 m MSL), the glider pilot realizes that oxygen will be consumed within a few minutes. What actions should be taken by the glider pilot?

- a) After depletion of oxygen, stay at that altitude no longer than 30 min
- b) At first indication of hypoxia, commence descent with maximum allowed speed
- c) Extend spoiler flaps, descent with maximum permissible speed
- d) Reduce oxygen flow by breathing slowly

59. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...

- a) 250°
- b) 265°
- c) 275°
- d) 245°

60. Unless the aircraft is equipped and certified accordingly...

- a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.
- b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.
- c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay
- d) Flight into areas of precipitation is prohibited.

61. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The flight time equals...

- a) 48 Min
- b) 37 Min
- c) 84 Min
- d) 62 Min

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

62. What is the correct way of acknowledging "You are now entering airspace Delta"?

- a) Roger
- b) Airspace Delta
- c) Wilco
- d) Entering

63. What kind of information should be included in an urgency message?

- a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- b) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude
- c) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude
- d) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude

64. With regard to global circulation within the atmosphere, where does polar cold air meet subtropical warm air?

- a) At the equator
- b) At the subtropical high pressure belt
- c) At the polar front
- d) At the geographic poles

65. The total weight of an aeroplane is acting vertically through the...

- a) Stagnation point
- b) Centre of pressure
- c) Neutral point
- d) Centre of gravity

66. What phrase is used by a pilot to inform the tower about a go-around?

- a) Pulling up
- b) Going around
- c) No landing
- d) Approach canceled

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

67. Which item from an aerodrome information transmission does not normally require readback?

- a) Runway in use
- b) Altitude
- c) Wind
- d) SSR code

68. The majority of aviation accidents are caused by...

- a) Technical failure
- b) Meteorological influences
- c) Human failure
- d) Geographical influences

69. Which of the following options does NOT stimulate motion sickness (disorientation)?

- a) Non-accelerated straight and level flight
- b) Head movements during turns
- c) Turbulence in level flight
- d) Flying under the influence of alcohol

70. During approach for landing with strong crosswind, how should the turn from base to final be flown?

- a) Turn with maximum 60° bank, carefully watch speed and yaw string, track correction after overshoot
- b) Maximum 30° bank, use rudder to early align sailplane with final track
- c) Maximum 60° bank, use rudder to early align sailplane with final track
- d) Turn with maximum 30° bank, carefully watch speed and yaw string, track correction after overshoot

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

Response Scheme

Compare your answers with the following diagram and mark your score!

01: A	02: B	03: C	04: A
05: C	06: D	07: A	08: A
09: B	10: D	11: A	12: C
13: C	14: D	15: C	16: A
17: C	18: D	19: B	20: D
21: C	22: C	23: D	24: D
25: A	26: A	27: B	28: B
29: A	30: C	31: D	32: A
33: D	34: D	35: A	36: A
37: D	38: A	39: C	40: D
41: B	42: D	43: A	44: D
45: B	46: C	47: D	48: D
49: A	50: C	51: A	52: B
53: B	54: B	55: B	56: B
57: D	58: C	59: A	60: C
61: A	62: A	63: D	64: C
65: D	66: B	67: C	68: C
69: A	70: D		

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



QuizVds.it

Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		