



Sigma Tandem Instructor Exam

Course Credentials Verification:

1. The responsibility to ensure the valid credentials of the UPT Sigma Tandem Examiner before the course begins, belongs to whom? _____
2. The expiration date of the UPT Sigma Tandem Examiner conducting this course is? _____
3. The course start date for my UPT Sigma Tandem Course is? _____
4. Have you read the Sigma Manual in its entirety (minus the reserve packing if not a certified rigger)? _____
5. Tandem Instructor candidate medical's examination date _____ and expiration date? _____

Sigma Tandem System Performance Envelope Questions:

6. Normal drogue fall terminal velocity is? _____
7. Tandem freefall terminal velocity is? _____
8. It takes _____ seconds to fall 1,000 feet at terminal velocity with a drogue.
9. It takes _____ seconds to fall 1,000 feet at terminal velocity without a drogue.
10. What is the purpose of a drogue? _____
11. If a drogue is deployed after 20 seconds of tandem freefall, how long will it take to slow the tandem down to 120 mph?

12. A packed Sigma tandem system and student harness weighs approximately? _____
13. A packed Micro Sigma tandem system and student harness weighs approximately? _____
14. Maximum combined suspended weight for the Sigma or Micro Sigma Tandem system is? (Specify both reserves)

15. Your tandem instructor / master weight is _____ therefore your maximum tandem student weight is _____?
16. How long should the trap door effect be? _____
17. What problem is caused by a drogue center line that is too short? _____

18. What problem is caused by a drogue center line that is too long? _____
19. How can you tell if a drogue was cocked during packing? _____
- _____
20. What might happen if you deploy a drogue which had not been cocked properly during packing?
- _____
21. What might happen if you hold on to or delay throwing the drogue after pulling it, instead of throwing it briskly to the side?
- _____
22. What happens if the screw in the drogue disc is loose or missing?
- _____
- _____
- _____
23. What is the purpose of the "safety pin" on the drogue bridle? _____
- _____
- _____
24. What length should the exposed kill line be above the grommet at the base of the drogue envelope be? _____
25. How often should the drogue be calibrated? _____
26. What would happen if the kill line were not attached to the #5 link at the top of the main deployment bag, or the kill line were to break during deployment? _____
27. What are the negative consequences of such an occurrence (question # 25)? _____
- _____
28. Explain the negative consequences of loose student side attachment straps on exit? _____
- _____
29. Why is it a bad idea to reach in front of a student to bring their arms into a correct free fall position? _____
- _____
30. What should you feel immediately upon pulling the drogue release handle? _____
31. Under what condition is use of a canopy catcher warranted? _____

32. Which direction should the closing pin be inserted? _____
33. What clock position should the main closing pin be pointing while secured in the closing loop? _____
34. What might happen if it is inserted from or pointing in the wrong direction? _____

35. What will happen to the pull force if you pack twists into the ripcords below the pin? _____
36. Authorized AAD units for the Sigma Tandem System are? _____
37. Arming altitudes of the AAD units are? _____

38. Activation altitudes of the AAD units are? _____

39. The red lanyard attached to the Sigma RSL is connected to? _____
40. The yellow lanyard attached to the Sigma RSL is designed to do what? _____

Sigma Standard Operation Procedures:

41. Why are procedures the most important aspect to tandem jumping? _____

42. List the hookup sequence:
1. _____
 2. _____
 3. _____
 4. _____
43. What is the minimum functionally open main parachute altitude for tandem jumps after probation? _____

44. Minimum exit altitude for tandem jumps after probation is? _____

45. What is one of the three leading causes for a tandem pair going unstable when leaving the aircraft? _____

46. Who may do RW with a tandem pair? Which four instructions must you give the relative worker?

47. Which requirements must a photographer meet before they can film a tandem? _____

48. When should the drogue be deployed / thrown on a normal tandem jump? _____

49. Is backing out of a side door aircraft on a tandem jump allowed? _____

50. What footwear is forbidden to be worn by either tandem instructor or student on a Sigma tandem jump?

51. The minimum horizontal separation under canopy for a tandem from any other canopy is. _____

52. The responsibility for pre-flighting a UPT Tandem system belongs to? _____

53. What items are included in the Pre-Flight gear check (before donning the equipment)? _____

54. The responsibility for ensuring that a Sigma and Micro Sigma have in-date reserve repacks and are Product Service Bulletin compliant falls on whom? _____
55. What is the proper student arm position on exit? _____
56. What is the minimum briefing you should give any student before a tandem jump? _____

57. List some negative aspects of over training a tandem student? _____

58. What circumstances require extra landing training for an instructor? _____

59. What is the minimum age for tandem students within the United States? _____
60. Which administrative actions does uninsured United Parachute Technologies, LLC require before a passenger / student does a tandem jump? _____
61. To renew a tandem rating, an applicant must have made _____ tandem jumps within the last ____ months.
62. If a Tandem Instructor (after probation) has not made a tandem jump in the preceding 90 days, they must:

63. If a Tandem Instructor (after probation) has not made a tandem jump within the preceding 180 days, they must:

64. Which qualifications must one have to be eligible to become a UPT Tandem Instructor? _____

65. The initial Tandem Instructor training course consists of _____ jumps.

66. What qualification must the first five passengers during the probationary period have (phase 2)? _____

67. A novice Tandem Instructor must make at least _____ probationary jumps.

68. What additional training must a student be given if they have access to the drogue release? _____

69. Under what circumstances is relative work (docking) not permitted? _____

70. What is the minimum number of tandem jumps that need to be made before using a handcam on tandem jumps? _____

71. Are pole camera mounts authorized for use on handcam tandem jumps? _____

72. What is the maximum degree of turn for tandem canopies at or below 500ft AGL? _____

73. Are Handles Checks REQUIRED on EVERY TANDEM SKYDIVE regardless of whether the tandem instructor is using a hand cam device on the tandem jump? _____

74. When are you to start your handle checks? _____

75. List the procedures for handles check in order of execution:

1. _____
2. _____
3. _____
4. _____
5. _____

76. What student training is required to be conducted BEFORE boarding the aircraft?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Emergency Procedures:

77. Describe the correct aircraft emergency procedure below 1,500 feet. _____

78. Describe the correct aircraft emergency procedure between 1,500 feet and 4000 feet. _____

79. Describe the correct aircraft emergency procedure between 4000 feet and 7500 feet. _____

80. Describe the correct aircraft emergency procedure from 7,500 feet and above. _____

81. Describe the correct cutaway procedure from a partial malfunction. _____

Describe the correct procedure for a Horseshoe malfunction. _____

82. Describe the correct response to an inflated drogue ("in tow") that does not release the main pin during a main canopy deployment attempt. What is your terminal velocity with this malfunction? _____

83. Describe the correct response to an uninflated drogue right after drogue set. What is your terminal velocity with this malfunction? _____

84. Describe the correct response to a collapsed drogue in tow. What is your terminal velocity for this malfunction? _____

85. What should you do if you accidentally pull the drogue release handle before you deploy the drogue?

86. What should you do if you can't pull the drogue from its pouch after several attempts within 10 seconds after exit?

87. What should you do if you tumble when deploying the drogue and the bridle wraps around your legs? What is your terminal velocity with this malfunction? _____

88. What should you do if you tumble when deploying the drogue and the bridle entangles with you? What is your terminal velocity with this malfunction? _____

89. What should you do if the drogue is entangled with your fully open canopy? _____

90. What should you do if one drogue release handle is pulled, and the drogue does not release (Hard Pull)? _____

91. Why is it unwise to show a student your wrist mounted altimeter in freefall? _____

92. Explain the correct way to pull your reserve or cutaway handles free of their Velcro pockets. _____

93. What would you do if your left shoulder was dislocated, and you needed to pull your reserve? _____

94. List the primary causes of tandem incidents that resulted in a fatality. _____

95. What is the procedure for videographer caught in drogue bridle? _____

96. Describe the procedure for a water landing: _____

97. The Sigma Emergency Procedure diagram is located on what pages of the Sigma Manual? _____

Post Main Canopy Opening Procedures:

98. What can be done, after opening the main, to make the student's harness more comfortable? _____

99. The Side Lateral Connections must be detached, loosened, and reattached where on the Sigma Tandem Harness prior to landing? _____

100. Under which circumstances is CRW with tandems permitted? _____

101. List the post canopy opening procedures: _____
