

# FIREBIRD TANDEM TRAINING INSTRUCTOR COURSE SYLLABUS



# FIREBIRD TANDEM INSTRUCTOR COURSE

## FOREWORD & REQUIREMENTS



## **FIREBIRD TANDEM INSTRUCTOR COURSE**

### **WELCOME TO THE FIREBIRD TANDEM INSTRUCTOR COURSE (FTIC).**

**THIS SYLLABUS CONTAINS THE DOCUMENTS THAT MUST BE RETURNED TO FIREBIRD USA LLC TO ISSUE YOUR FIREBIRD TANDEM RATING. EVERYTHING MUST BE FILLED OUT WITH PROPER SIGNATURES BEFORE WE CAN PROCESS YOUR APPLICATION.**

#### **FTIC DOCUMENTS INCLUDE:**

##### **STAGE 1**

- **CERTIFICATION OF TANDEM INSTRUCTOR QUALIFICATIONS / USA**
- **CERTIFICATION OF TANDEM INSTRUCTOR QUALIFICATIONS / OUTSIDE THE USA &**
- **TANDEM INSTRUCTOR APPLICATION**
- **FTIC TEST**
- **PARACHUTIST IN COMMAND LETTER OF AGREEMENT**
- **FIREBIRD TANDEM INSTRUCTOR CODE OF ETHICS AGREEMENT**
- **TANDEM PASSENGER PARACHUTIST ASSUMPTION OF RISK AGREEMENT**
- **FTIC TEST JUMPS MATRIX**

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**CERTIFICATION OF TANDEM INSTRUCTOR QUALIFICATION *(FOR USA ONLY)***

**WITHIN 10 DAYS OF THE COMPLETION OF THE TANDEM INSTRUCTOR CERTIFICATION COURSE (FTIC), THE TANDEM INSTRUCTOR EXAMINER MUST PROVIDE FIREBIRD USA LLC THIS FORM ALONG WITH A COMPLETE SET OF THE DOCUMENTS REFERENCED BELOW. PLEASE HAVE ALL DOCUMENT LEGIBLY FILLED OUT FOR EACH TANDEM INSTRUCTOR FTIC STUDENT:**

**1. I HEREBY CERTIFY THAT I HAVE REVIEWED LOGBOOKS AND OTHER DOCUMENTATION OF:**

**FTIC STUDENT LAST NAME. \_\_\_\_\_ (PRINT)**

**FTIC STUDENT FIRST NAME. \_\_\_\_\_ (PRINT)**

**AND THAT HE/SHE HAS MET ALL FTIC PRE-REQUISITES AND COURSE REQUIREMENTS.**

**PRE-REQUISITE DOCUMENTS:**

**PLEASE REVIEW AND SIGN ACKNOWLEDGING YOU VERIFIED COMPLETION/PROOF OF:**

- 1) MINIMUM OF 3 YEARS SKYDIVING EXPERIENCE
- 2) MINIMUM OF 500 RAM-AIR CANOPY JUMPS
- 3) MINIMUM OF 100-FREE FALLS JUMPS WITHIN THE LAST YEAR.
- 4) MINIMUM OF 4 HOURS OF FREEFALL
- 5) MINIMUM 18 YEARS OLD OF AGE.

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**FTIC DOCUMENTS:**

PLEASE SUBMIT THESE DOCUMENTS TO FIREBIRD USA LLC AND ENSURE THAT YOU HAVE KEPT COPIES FOR YOUR RECORDS.

- 1) TANDEM PASSENGER PARACHUTIST ASSUMPTION OF RISK AGREEMENT  
[SIGNATURE WITNESSED BY EXAMINER].
- 2) PARACHUTIST IN COMMAND LETTER OF AGREEMENT
- 3) FIREBIRD TANDEM INSTRUCTOR CODE OF CONDUCT AGREEMENT
- 4) TANDEM INSTRUCTOR APPLICATION, STAGE 1 FORM COMPLETED.
- 5) STAGE 2 FORM COMPLETED WITH ADDITIONAL 3 TANDEM JUMPS LOGGED.
- 6) FTIC WRITTEN TEST COMPLETED, CORRECTED TO 100% AND SIGNED BY  
FTIC STUDENT AND EXAMINER.
- 7) MINIMUM 18 YEARS OF AGE (DRIVER LICENSE OR OTHER PHOTO ID).
- 8) USPA "D" LICENSE OR NATIONAL EQUIVALENT.
- 9) PARACHUTING INSTRUCTOR, JUMPMaster RATING, COACH RATING.
- 10) CURRENT CLASS III FLIGHT PHYSICAL OR PARACHUTING PHYSICAL APPROVED BY  
A NATIONAL ASSOCIATION OR THE MILITARY.
- 11) ANY TANDEM INSTRUCTOR CERTIFICATIONS FROM OTHER MANUFACTURERS. (FOR  
CROSSOVER RATINGS)
- 12) CODE OF CONDUCT AGREEMENT

EXAMINER SIGNATURE \_\_\_\_\_

EXAMINER PRINTED NAME \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ OF 20\_\_\_\_

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**CERTIFICATION OF TANDEM INSTRUCTOR QUALIFICATION (*OUTSIDE THE USA*)**  
WITHIN 10 DAYS OF THE COMPLETION OF THE TANDEM INSTRUCTOR CERTIFICATION  
COURSE (FTIC), THE TANDEM INSTRUCTOR EXAMINER MUST PROVIDE FIREBIRD USA LLC  
THIS FORM ALONG WITH THE COMPLETE SET OF DOCUMENTS REFERENCED BELOW.  
PLEASE HAVE ALL DOCUMENT LEGIBLY FILLED OUT FOR EACH FTIC STUDENT:

1. I CERTIFY THAT I HAVE REVIEWED THE LOGBOOKS AND OTHER ORIGINAL  
DOCUMENTATION OF:

FTIC STUDENT'S LAST NAME. \_\_\_\_\_ (PRINT)

FTIC STUDENT'S FIRST NAME. \_\_\_\_\_ (PRINT)

AND THAT HE/SHE HAS MET ALL FTIC PRE-REQUISITES AND COURSE REQUIREMENTS  
LISTED BELOW: ORIGINAL DOCUMENTS REVIEWED

**FTIC PRE-REQUISITES:**

- 1) MINIMUM 18 YEARS OF AGE.
- 2) NATIONAL EXPERT PARACHUTIST LICENSE
- 3) NATIONAL PARACHUTING INSTRUCTOR, JUMPMaster RATING OR COACH RATING.
- 4) CURRENT FLIGHT PHYSICAL OR PARACHUTING PHYSICAL APPROVED BY A  
NATIONAL ASSOCIATION OR THE MILITARY.
- 5) MINIMUM OF 3 YEARS SKYDIVING EXPERIENCE OR NATIONAL REQUIREMENT
- 6) MINIMUM OF 500 RAM-AIR CANOPY JUMPS OR NATIONAL REQUIREMENT
- 7) MINIMUM OF 100 FREE FALLS WITHIN THE LAST YEAR.
- 8) MINIMUM OF 4 HOURS OF FREEFALL

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**FTIC DOCUMENT:**

- FTIC WRITTEN TEST REVIEWED, CORRECTED TO 100% AND SIGNED BY THE EXAMINER AND T/I FTIC STUDENT.

**DOCUMENTS TO BE SENT TO FIREBIRD USA LLC**

PLEASE SUBMIT THESE DOCUMENTS TO FIREBIRD AND ENSURE THAT YOU HAVE KEPT COPIES FOR YOUR RECORDS.

- 1) TANDEM PASSENGER PARACHUTIST ASSUMPTION OF RISK AGREEMENT [SIGNATURE WITNESSED BY EXAMINER].
- 2) TANDEM INSTRUCTOR APPLICATION, STAGE 1 FORM COMPLETED
- 3) CODE OF CONDUCT AGREEMENT
- 4) STAGE 2 FORM COMPLETED WITH ADDITIONAL 5 TANDEM JUMPS LOGGED.
- 5) COPY OF ANY TANDEM INSTRUCTOR CERTIFICATIONS FROM OTHER MANUFACTURERS [FOR CROSSOVER RATINGS].
- 6) COPY OF PHOTO IDENTIFICATION

2. AN ADMINISTRATIVE FEE OF **\$60.00** FOR EACH FTIC STUDENT, ALONG WITH ALL DOCUMENTS MUST BE SENT TO FIREBIRD USA LLC.

EXAMINER SIGNATURE \_\_\_\_\_

EXAMINER PRINTED NAME \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ OF 20\_\_\_\_

# FIREBIRD TANDEM INSTRUCTOR COURSE

## STAGE 1





FIREBIRD TANDEM INSTRUCTOR COURSE

CREDENTIALS VERIFICATION:

IT IS THE CANDIDATE'S RESPONSIBILITY TO ENSURE THE VALID CREDENTIALS OF THE FIREBIRD EVO TD TANDEM EXAMINER BEFORE THE COURSE BEGINS. WHAT IS THE EXPIRATION DATE OF THE EXAMINER CONDUCTING THIS COURSE?

----- OF 20---

LIST THE START DATE OF YOUR FIREBIRD EVO TD TANDEM COURSE?

----- OF 20---

**YOU MUST HAVE A VALID MEDICAL TO PARTICIPATE IN THE FIREBIRD EVO TD TANDEM COURSE.**

WHAT IS YOUR MEDICAL'S EXAMINATION DATE ----- OF 20---  
AND THE EXPIRATION DATE? ----- OF 20---

TANDEM INSTRUCTOR APPLICATION (**PRINT CLEARLY**)

FTIC STUDENT INFORMATION:

DATE: ----- OF 20---

LAST NAME: -----

FIRST NAME: -----

ADDRESS:-----

CITY: ----- STATE: ----- ZIP CODE:-----

COUNTRY:-----

TEL. : -----

EMAIL:-----

HEIGHT: -----

WEIGHT: -----

AGE: -----

SEX:  M  F

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**EXPERIENCE:**

YEARS JUMPING: \_\_\_\_\_ NO. OF FREEFALL JUMPS: \_\_\_\_\_

NO. OF JUMPS WITH RAM AIR PARACHUTES: \_\_\_\_\_

CUTAWAYS: HOW MANY? \_\_\_\_\_

MEDICAL: EXAM DATE: \_\_\_\_\_; EXPIRATION DATE: \_\_\_\_\_

EXPERT LICENSE NO: \_\_\_\_\_

USPA #: \_\_\_\_\_ EXP. DATE: \_\_\_\_\_

COACH RATING: \_\_\_\_\_ HOURS OF FREEFALL: \_\_\_\_\_

INSTRUCTOR RATING: \_\_\_\_\_

TANDEM RATINGS: \_\_\_\_\_

**QUALIFICATION JUMPS:**

NO.	DATE	LOCATION	PASSENGER	ALT.	DELAY	LICENSED WITNESS
1.	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____	_____

**EXAMINER COMMENTS:**

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IF CROSS-OVER, PLEASE ENTER MANUFACTURER & NUMBER OF TANDEM JUMPS:

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NO.	DATE	LOCATION	PASSENGER	ALT.	DELAY	LICENSED WITNESS
1.	_____	_____	_____	_____	_____	_____

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**APPLICANT ACKNOWLEDGES THAT THEY HAVE RECEIVED TANDEM TRAINING IN ALL THE FOLLOWING:**

- FAR 105.45
- BSR'S PERTAINING TO TANDEMS [USPA]
- FUNCTIONALITY OF EQUIPMENT, HANDLE OPERATION
- EMERGENCIES & MALFUNCTIONS
- SIDESPIN RECOVERY TECHNIQUE
- GEAR CHECKS
- PUTTING ON AND WEARING THE EQUIPMENT
- STUDENT HARNESSING PER THE MANUFACTURER'S STANDARDS
- HOOK UP PROCEDURES PER THE MANUFACTURER'S STANDARDS
- AIRCRAFT PROCEDURES
- EXITS
- FREEFALL PROCEDURES
- DROGUE FALL PROCEDURES
- HANDLES CHECKS
- CANOPY PROCEDURES
- CANOPY FLIGHT AND LANDING
- MAINTENANCE/SERVICE BULLETINS
- RECOMMENDED COMPONENTS
- PACKING THE MAIN
- HANDCAM REQUIREMENTS
- RECOMMENDATION FOR PROGRESSION

**TRAINING DATE RANGE: -----**

**LOCATION: -----**

**CANDIDATES FULL NAME: -----**

**SIGNATURE: -----**

**DATE: ----- OF 20---**

**CLEARED FOR STAGE 2:**

**EXAMINER: -----**

**SIGNATURE: -----**

**PLEASE PRINT FTIC # -----**

**DATE: ----- OF 20---**

# FIREBIRD TANDEM INSTRUCTOR COURSE

## WRITTEN TEST



**FIREBIRD TANDEM INSTRUCTOR COURSE**

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**WRITTEN TEST**

DATE: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ OF 20\_\_\_\_

NAME: \_\_\_\_\_

**EVOU TO RATING KNOWLEDGE:**

- 1) WHICH QUALIFICATIONS MUST ONE HAVE TO BE ELIGIBLE TO BECOME A FIREBIRD TANDEM INSTRUCTOR?
- 2) THE STAGE 1 SECTION OF THE TANDEM INSTRUCTOR TRAINING COURSE CONSISTS OF HOW MANY JUMPS. \_\_\_\_\_
- 3) WHAT QUALIFICATION MUST THE PASSENGERS DURING THE STAGE 2 PRACTICAL JUMPS HAVE? \_\_\_\_\_  
\_\_\_\_\_
- 4) TO RENEW A TANDEM RATING, AN APPLICANT MUST HAVE MADE TANDEM JUMPS WITHIN THE LAST \_\_\_\_\_ MONTHS.
- 5) IF A TANDEM INSTRUCTOR (AFTER PROBATION) HAS NOT MADE A TANDEM JUMP IN THE PRECEDING 90 DAYS, WHAT MUST THEY DO? \_\_\_\_\_  
\_\_\_\_\_
- 6) IF A TANDEM INSTRUCTOR (AFTER PROBATION) HAS NOT MADE A TANDEM JUMP WITHIN THE PRECEDING 180 DAYS, WHAT MUST THEY DO? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 7) A NOVICE TANDEM INSTRUCTOR MUST MAKE AT LEAST PROBATIONARY JUMPS? \_\_\_\_\_
- 8) WHAT IS THE MINIMUM NUMBER OF TANDEM JUMPS THAT NEED TO BE MADE BEFORE USING A HANDCAM ON TANDEM JUMPS? \_\_\_\_\_

**EVOU TO TANDEM SYSTEM OPERATIONAL UNDERSTANDING:**

- 9) A PACKED EVOU TO TANDEM SYSTEM AND STUDENT HARNESS WEIGHS APPROX.? \_\_\_\_\_ LBS/KG
- 10) MAXIMUM COMBINED SUSPENDED WEIGHT FOR THE EVOU TO TANDEM SYSTEM IS? \_\_\_\_\_ LBS/KG

FIREBIRD TANDEM INSTRUCTOR COURSE

- 11) YOUR TANDEM INSTRUCTOR/MASTER WEIGHT IS \_\_\_\_\_LBS/KG ,  
THEREFORE YOUR MAXIMUM TANDEM STUDENT WEIGHT IS? \_\_\_\_\_LBS/KG
- 12) THE STUDENT HARNESS SHOULDER CONNECTIONS (T10 SNAP) HAVE A MIN.  
TENSILE STRENGTH OF \_\_\_\_\_ LBS. EACH.  
THE LATERAL CONNECTIONS (QUICK EJECTOR) HAVE A MIN. TENSILE STRENGTH  
OF \_\_\_\_\_ LBS. EACH.
- 13) WHY IS IT IMPORTANT TO ENSURE THAT THE CLOSING PIN IS INSERTED  
CORRECTLY? \_\_\_\_\_  
\_\_\_\_\_
- 14) WHAT WILL HAPPEN TO THE PULL FORCE IF YOU PACK TWISTS INTO THE  
RIPCORDS BELOW THE PIN? \_\_\_\_\_
- 15) LIST THE AUTHORIZED AAD UNITS FOR THE EVO TD TANDEM SYSTEM?  
\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_
- 16) WHAT ARE THE ARMING ALTITUDES OF EACH APPROVED AAD UNIT?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 17) WHAT ARE THE ACTIVATION ALTITUDES OF EACH APPROVED AAD UNIT?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 18) EXPLAIN THE FUNCTIONALITY OF THE LANYARD THAT IS ATTACHED TO THE EVO  
TD RSL? \_\_\_\_\_  
\_\_\_\_\_
- 19) A TANDEM PAIR FALLS APPROXIMATELY \_\_\_\_\_ MPH WITH A DROGUE  
VS. \_\_\_\_\_ MPH WITHOUT A DROGUE.
- 20) IT TAKES \_\_\_\_\_SECONDS TO FALL 1,000 FEET AT TERMINAL VELOCITY  
WITH A DROGUE.
- 21) IT TAKES \_\_\_\_\_SECONDS TO FALL 1,000 FEET AT TERMINAL VELOCITY  
WITHOUT A DROGUE.
- 22) HOW LONG DOES IT TAKE TO SLOW THE TANDEM ONCE A DROGUE HAS BEEN  
DEPLOYED FOLLOWING TANDEM TERMINAL? \_\_\_\_\_

FIREBIRD TANDEM INSTRUCTOR COURSE

- 23) WHAT CAUSES THE TRAP DOOR EFFECT TO OCCUR? \_\_\_\_\_  
\_\_\_\_\_
- 24) WHAT PROBLEM IS CAUSED BY A DROGUE CENTER LINE THAT IS TOO SHORT/TOO LONG? \_\_\_\_\_  
\_\_\_\_\_
- 25) HOW CAN YOU TELL IF A DROGUE WAS COCKED DURING PACKING? \_\_\_\_\_  
\_\_\_\_\_
- 26) WHAT MIGHT HAPPEN IF YOU DEPLOY A DROGUE WHICH HAD NOT BEEN COCKED PROPERLY DURING PACKING? \_\_\_\_\_  
\_\_\_\_\_
- 27) WHAT MIGHT HAPPEN IF YOU HOLD ON TO OR DELAY THROWING THE DROGUE AFTER PULLING IT, INSTEAD OF THROWING IT WITH INTENT INTO THE RELATIVE WIND? \_\_\_\_\_  
\_\_\_\_\_
- 28) WHAT IS THE PURPOSE OF THE "SAFETY PIN" ON THE DROGUE BRIDLE? \_\_\_\_\_  
\_\_\_\_\_
- 29) WHAT SHOULD YOU FEEL IMMEDIATELY UPON PULLING THE DROGUE RELEASE HANDLE? \_\_\_\_\_  
\_\_\_\_\_
- 30) WHAT HAPPENS IF THE SCREW IN THE DROGUE DISC IS LOOSE OR MISSING? \_\_\_\_\_  
\_\_\_\_\_
- 31) WHAT LENGTH SHOULD THE EXPOSED KILL LINE BE ABOVE THE GROMMET AT THE BASE OF THE DROGUE ENVELOPE? \_\_\_\_\_  
\_\_\_\_\_
- 32) WHY IS IT IMPORTANT FOR THE DROGUE KILL LINE TO BE CALIBRATED? HOW OFTEN SHOULD THAT HAPPEN? \_\_\_\_\_  
\_\_\_\_\_
- 33) WHAT WOULD HAPPEN IF THE KILL LINE WERE NOT ATTACHED AT THE TOP OF THE MAIN DEPLOYMENT BAG, OR THE KILL LINE WERE TO BREAK DURING DEPLOYMENT? \_\_\_\_\_  
\_\_\_\_\_

**FIREBIRD TANDEM INSTRUCTOR COURSE**

34) WHY IS IT A BAD IDEA TO EVER REACH IN FRONT OF A STUDENT?

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35) UNDER WHAT WIND CONDITIONS IS THE USE OF A CANOPY CATCHER WARRANTED?

36) AT WHAT ALTITUDE SHOULD THE RSL BE DISCONNECTED WHEN WARRANTED DUE TO WINDS?

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**EVO TD STANDARD OPERATION PROCEDURES:**

37) WHY ARE PROCEDURES THE MOST IMPORTANT ASPECT TO TANDEM JUMPING?

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38) LIST THE 3 LEADING CAUSES OF TANDEM INCIDENTS?

A) -----

B) -----

C) -----

39) WHAT IS THE MINIMUM AGE FOR TANDEM STUDENTS WITHIN THE UNITED STATES?

40) WHICH ADMINISTRATIVE ACTIONS DOES FIREBIRD USA LLC REQUIRE BEFORE A PASSENGER / STUDENT DOES A TANDEM JUMP?

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41) HOW OFTEN IS EVERY TANDEM INSTRUCTOR REQUIRED TO REVIEW THEIR EMERGENCY PROCEDURES?

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42) WHEN SHOULD THE EVO TD TANDEM SYSTEM BE PRE-FLIGHTED? AND WHO'S RESPONSIBILITY IS IT TO DO A THOROUGH CHECK?

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43) DESCRIBE THE NECESSARY ITEMS TO INCLUDE IN THE PRE-FLIGHT GEAR CHECK (BEFORE DONNING THE EQUIPMENT)?

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44) THE RESPONSIBILITY FOR ENSURING THAT AN EVO TD HAS AN IN-DATE RESERVE REPACK AND IS UP TO DATE ON ANY PRODUCT SERVICE BULLETIN FALLS TO WHOM?

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**FIREBIRD TANDEM INSTRUCTOR COURSE**

**45) PER FAA FAR 105.45, WHAT STUDENT TRAINING IS REQUIRED TO BE CONDUCTED BEFORE BOARDING THE AIRCRAFT?**

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**46) LIST SOME NEGATIVE ASPECTS OF OVER TRAINING A TANDEM STUDENT?**

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**47) WHAT ADDITIONAL TRAINING MUST A STUDENT BE GIVEN IF THEY HAVE ACCESS TO THE DROGUE RELEASE?-----**

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**48) THE MINIMUM EXIT ALTITUDE FOR TANDEM JUMPS AFTER PROBATION IS?-----**

**49) WHY IS IT NECESSARY FOR STUDENTS TO HAVE ACCESS TO THEIR OWN SEAT BELTS ON TAKEOFF, TAXI AND LANDING, AND KNOW HOW TO USE THEM?**

**50) LIST THE HOOKUP SEQUENCE:**

A) -----

B) -----

C) -----

D) -----

**51) EXPLAIN THE NEGATIVE CONSEQUENCES OF HAVING LOOSE STUDENT SIDE ATTACHMENT STRAPS ON EXIT?**

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**52) WHAT IS THE PROPER STUDENT SHOULDER AND ARM POSITION ON EXIT?**

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**53) HOW LONG SHOULD YOU TAKE TO SET THE DROGUE IN AN IDEAL SITUATION? -----, HOW ABOUT A PROBLEMATIC ONE?**

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**54) LIST THE SIDE SPIN AVOIDANCE TECHNIQUES?**

**55) -----**

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**56) WHEN SHOULD A TANDEM INSTRUCTOR PERFORM THEIR HANDLE CHECKS?**

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**57) WHY ARE HANDLES CHECKS REQUIRED ON EVERY TANDEM SKYDIVE?-----**

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**FIREBIRD TANDEM INSTRUCTOR COURSE**

**58) LIST THE PROCEDURES FOR HANDLES CHECK IN ORDER OF EXECUTION:**

- A) -----
- B) -----
- C) -----
- D) -----
- E) -----

**59) WHO MAY DO RW WITH A TANDEM PAIR? WHICH FOUR INSTRUCTIONS MUST YOU GIVE THE RELATIVE**

**WORKER?-----**  
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**60) WHICH REQUIREMENTS MUST A PHOTOGRAPHER MEET BEFORE THEY CAN FILM A TANDEM?-----**

**61) ARE POLE CAMERA MOUNTS AUTHORIZED FOR USE ON HANDCAM TANDEM JUMPS?-----**

**62) IS BACKING OUT OF A SIDE DOOR AIRCRAFT ON A TANDEM JUMP PERMITTED?-----**

**63) WHAT FOOTWEAR IS FORBIDDEN TO BE WORN BY EITHER TANDEM INSTRUCTOR OR STUDENT ON AN EVO TD TANDEM JUMP? -----**

**64) THE MINIMUM "CANOPY OPEN" ALTITUDE IS ----- FT. AGL.**

**65) LIST THE POST-DEPLOYMENT EQUIPMENT CHECKS & PROCEDURES.**

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**66) THE MINIMUM HORIZONTAL SEPARATION UNDER CANOPY FOR A TANDEM FROM ANY OTHER CANOPY IS -----**

**67) WHAT CIRCUMSTANCES REQUIRE EXTRA LANDING TRAINING FOR AN INSTRUCTOR?-----**  
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**68) WHAT IS THE MAXIMUM DEGREE OF TURN FOR TANDEM CANOPIES AT OR BELOW 500FT AGL?**

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**69) ARE SPEED INDUCED TURNS FOR LANDINGS DANGEROUS?**

-----, ARE THEY NECESSARY?-----,

**FIREBIRD TANDEM INSTRUCTOR COURSE**

**EXPLAIN THE DANGERS OF INDUCING SPEED ON LANDING:**

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**EMERGENCY PROCEDURES:**

**70) DESCRIBE THE AIRCRAFT EMERGENCY PROCEDURES FOR THE FOLLOWING:**

**A) BELOW 1500 FT. AGL:**

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**B) BETWEEN 1500-4000 FT AGL:**

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**C) BETWEEN 4000-7500 FT. AGL:**

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**71) DESCRIBE THE CORRECT AIRCRAFT EMERGENCY PROCEDURE FROM 7,500 FEET AND ABOVE.**

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**72) WHAT SHOULD YOU DO IF YOU TUMBLE WHEN DEPLOYING THE DROGUE AND THE BRIDLE WRAPS AROUND YOU OR YOUR PASSENGER? WHAT IS YOUR TERMINAL VELOCITY WITH THIS MALFUNCTION?**

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**73) WHAT SHOULD YOU DO IF THE DROGUE OR DROGUE BRIDAL IS ENTANGLED WITH YOUR FULLY OPEN CANOPY?**

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**74) WHAT SHOULD YOU DO IF YOU ACCIDENTALLY PULL THE DROGUE RELEASE HANDLE BEFORE YOU DEPLOY THE DROGUE? WHAT CAN YOU EXPECT TO HAPPEN AFTER THE CORRECT RESPONSE?**

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**FIREBIRD TANDEM INSTRUCTOR COURSE**

**75) DESCRIBE THE CORRECT CUTAWAY PROCEDURE FOR A TOTAL MALFUNCTION.**

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**76) 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?**

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**77) DESCRIBE THE CORRECT PROCEDURE FOR A HORSESHOE MALFUNCTION.**

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**78) DESCRIBE THE CORRECT RESPONSE TO AN UNINFLATED DROGUE RIGHT AFTER THE INITIAL DROGUE SET? WHAT IS THE TERMINAL VELOCITY WITH THIS MALFUNCTION?**

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**79) WHO IS SOLELY AND COMPLETELY RESPONSIBLE FOR THE “DIRECT CONTROL AND SUPERVISION” OF THE TANDEM PASSENGER?**

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**80) DESCRIBE THE CORRECT RESPONSE TO A COLLAPSED DROGUE IN TOW. WHAT IS YOUR TERMINAL VELOCITY FOR THIS MALFUNCTION?**

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**81) WHY IS IT UNWISE TO SHOW A STUDENT YOUR WRIST MOUNTED ALTIMETER IN FREEFALL?**

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**82) LIST THE PRIMARY CAUSES OF TANDEM INCIDENTS THAT RESULTED IN A FATALITY.**

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**83) EXPLAIN THE CORRECT WAY TO PULL YOUR CUTAWAY AND RESERVE HANDLES FREE AND CLEAR OF THEIR VELCRO POCKETS.**

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**FIREBIRD TANDEM INSTRUCTOR COURSE**

**84) WHAT STEP SHOULD YOU ALWAYS ENSURE TO DO BETWEEN THE CUTAWAY AND RESERVE PULL SEQUENCE?**

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**85) WHAT WOULD YOU DO IF YOUR LEFT SHOULDER WAS DISLOCATED, AND YOU NEEDED TO PULL YOUR RESERVE?**

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**86) WHAT IS THE PROCEDURE FOR VIDEOGRAPHER CAUGHT IN DROGUE BRIDLE?**

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**87) EXPLAIN THE POST MAIN CANOPY OPENING PROCEDURES:**

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**88) WHAT CAN BE DONE, AFTER OPENING THE MAIN, TO MAKE THE STUDENT'S HARNESS MORE COMFORTABLE?**

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**89) THE SIDE LATERAL CONNECTIONS MUST BE DETACHED, LOOSENED, AND REATTACHED WHERE ON THE EVO TD TANDEM HARNESS PRIOR TO LANDING?**

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**90) UNDER WHICH CIRCUMSTANCES IS CRW WITH TANDEMS PERMITTED?**

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**91) DESCRIBE THE PROCEDURE FOR A WATER LANDING:**

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**INSTRUCTOR ACKNOWLEDGMENTS**

**92) DO YOU AGREE TO REFRAIN FROM CONSUMING ALCOHOL EIGHT HOURS PRIOR TO MAKING ANY TANDEM JUMPS?**

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**93) DO YOU AGREE TO REFRAIN FROM CONSUMING ANY CONTROLLED SUBSTANCES WITHOUT A PRESCRIPTION?**

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**94) DO YOU AGREE TO PUT PASSENGER PARACHUTIST SAFETY ABOVE ALL ELSE AND DO EVERYTHING WITHIN YOUR POWER TO ENSURE THE PASSENGER PARACHUTIST IS PROVIDED THE SAFEST SKYDIVE POSSIBLE.**

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**FIREBIRD TANDEM INSTRUCTOR COURSE**

**95) DO YOU ACKNOWLEDGE THAT PERFORMING TANDEM JUMPS ACTING AS INSTRUCTOR IS AN ENORMOUS RESPONSIBILITY AND MUST BE TREATED AS SUCH ON EVERY JUMP?**

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**96) DO YOU ACKNOWLEDGE THAT SKYDIVING DEPENDS ON THE FRONT LINE OF TANDEM INSTRUCTORS ACTING IN A COURTEOUS AND PROFESSIONAL MANNER?**

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**THE EVO TD TANDEM EXAMINER HAS REVIEWED AND CORRECTED THIS WRITTEN EXAMINATION WITH THE TANDEM INSTRUCTOR CANDIDATE TO 100% ACCURACY.**

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**FTIC STUDENT SIGNATURE**

**DATE: \_\_\_\_\_/\_\_\_\_\_/20\_\_\_\_**

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**EXAMINER SIGNATURE**

**DATE: \_\_\_\_\_/\_\_\_\_\_/20\_\_\_\_**

# FIREBIRD TANDEM INSTRUCTOR COURSE

## P.I.C. LETTER OF AGREEMENT



## **FIREBIRD TANDEM INSTRUCTOR COURSE**

### **PARACHUTIST IN COMMAND LETTER OF AGREEMENT**

**ALL TANDEM SKYDIVING IS PERFORMED UNDER FEDERAL AVIATION REGULATION 14 CFR PART 105.45.**

**THEREFORE, I UNDERSTAND AND AGREE TO BE BOUND BY THE FOLLOWING:**

**1. I HAVE READ COMPLETELY AND UNDERSTAND FAR 105.45 AND FIREBIRD USA LLC TANDEM STANDARD OPERATING PROCEDURES [SEE THE MOST CURRENT FTIC SYLLABUS].**

**2. I AGREE TO BE BOUND BY ALL CONDITIONS AND REQUIREMENTS OF FAR 105.45 AND ALL CONDITIONS, REQUIREMENTS AND**

**RECOMMENDATIONS, AS MAY BE IMPOSED BY FIREBIRD USA LLC, INCLUDING:**

- I PROMISE TO SUBMIT A WRITTEN RECORD TO FIREBIRD USA LLC, WITHIN 48 HOURS OF ALL TANDEM-JUMPING INCIDENTS REQUIRING A RESERVE ACTIVATION OR RESULTING IN INJURY OR DEATH TO THE PARACHUTIST IN COMMAND OR THE PASSENGER PARACHUTIST.**

- I UNDERSTAND THAT AS A PARACHUTIST IN COMMAND, CERTIFIED BY FIREBIRD USA LLC, I AM RESPONSIBLE FOR THE CONTROL AND SUPERVISION OF TANDEM JUMPING AS DESCRIBED IN FAR 105.45.**

- I UNDERSTAND THAT MY PARACHUTIST IN COMMAND CERTIFICATION CAN BE SUSPENDED OR REVOKED BY FIREBIRD USA LLC FOR CAUSE. I AGREE TO RETURN MY CERTIFICATION CERTIFICATE AND CARD TO FIREBIRD USA LLC UPON WRITTEN REQUEST WITHIN TEN DAYS.**

**3. WHILE TANDEM JUMPING IS PERFORMED PURSUANT TO FAR 105.45, UNDER FIREBIRD USA LLC' CERTIFICATION:**

- I UNDERSTAND THAT THE EQUIPMENT MUST BE USED IN A TRAINING ENVIRONMENT.**

- A PREPARED TANDEM JUMP BRIEFING MUST BE USED [SEE "FIRST TANDEM JUMP PASSENGER PARACHUTIST TRAINING", IN THE MOST CURRENT FTIC SYLLABUS] DURING WHICH THE PASSENGER PARACHUTIST SHALL BE BRIEFED ON THE OPERATION OF DUAL HARNESS, DUAL PARACHUTE ASSEMBLIES AND PROCEDURES TO BE USED DURING ALL EMERGENCIES, AN EXIT FROM THE AIRCRAFT, FREEFALL AND SUBSEQUENT LANDING.**

- THE TANDEM PASSENGER PARACHUTIST MUST SIGN A FIREBIRD USA LLC APPROVED WAIVER AND ASSUMPTION OF RISK AGREEMENT.**



**FIREBIRD TANDEM INSTRUCTOR COURSE**

• THE TANDEM PASSENGER PARACHUTIST MUST WEAR PROPER EQUIPMENT INCLUDING ALTIMETER, HELMET, GOGGLES AND HAVE ACCESS TO A MAIN PARACHUTE RELEASE HANDLES.

4. I UNDERSTAND THAT ALL PASSENGER PARACHUTISTS MUST BE 18 YEARS OLD OR HAVE REACHED THE AGE MAJORITY STIPULATED IN THE STATE THE TANDEM JUMP IS BEING PERFORMED IN, WHICHEVER IS HIGHER.

5. I FURTHER UNDERSTAND THAT THE RAMIFICATIONS OF NONCOMPLIANCE ARE:

- REVOCATION OF MY PARACHUTIST IN COMMAND CERTIFICATION FROM FIREBIRD USA LLC.
- POSSIBLE SUSPENSION OF ALL FIREBIRD USA LLC TANDEM OPERATIONS AT THE DROP ZONE.
- REVOCATION OF PRIVILEGES TO OPERATE A TANDEM JUMPING BUSINESS UNDER FIREBIRD USA LLC' CERTIFICATION OR APPROVAL FROM THE FAA.
- POSSIBLE DISQUALIFICATION OF OTHER FAA APPROVED TANDEM RATINGS.

SIGNED ON THE \_\_\_\_\_/\_\_\_\_\_ OF 20\_\_\_\_

-----  
SIGNATURE:

-----  
PRINTED NAME:

# FIREBIRD TANDEM INSTRUCTOR COURSE

## CODE OF CONDUCT



**FIREBIRD TANDEM INSTRUCTOR COURSE**

**FIREBIRD TANDEM INSTRUCTOR CODE OF CONDUCT**

THE PURPOSE OF THIS CODE OF ETHICS AGREEMENT IS TO ENSURE THAT OUR FIREBIRD RATED TANDEM INSTRUCTORS HAVE A CLEAR UNDERSTANDING OF THE ETHICAL OBLIGATION THAT OUR TANDEM INSTRUCTOR RATING CARRIES WITH IT. BY SIGNING THIS DOCUMENT, THE INSTRUCTOR CONSENTS TO ABIDE BY THE TERMS OF THIS AGREEMENT AND UNDERSTANDS THAT NON-COMPLIANCE MAY RESULT IN THE SUSPENSION AND/OR REVOCATION OF THEIR FIREBIRD TANDEM RATING.

BY SIGNING BELOW, THE FIREBIRD RATED TANDEM INSTRUCTOR AGREES TO:

1. MAINTAIN A CURRENT FAA CLASS III MEDICAL OR EQUIVALENT CERTIFICATE.
2. ONLY ALLOW TANDEM PASSENGER PARACHUTIST THAT ARE 18 YEARS OLD, OR HAVE REACHED THE LEGAL AGE OF MAJORITY WHICHEVER IS HIGHER. [USA]
3. SECURELY FASTEN PASSENGER HARNESS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS WITHOUT DEVIATION.
4. PROVIDE THE TANDEM PASSENGER PARACHUTIST WITH 3 INDEPENDENT PASSENGER HARNESS INSPECTIONS:  
FIRST – AT THE CONCLUSION OF THE GEAR UP PROCESS.  
SECOND – PRIOR TO BOARDING THE AIRCRAFT.  
THIRD – PRIOR TO EXIT OF THE AIRCRAFT.
5. PERFORM STABLE EXITS INTO THE RELATIVE WIND.
6. FLY IN A BELLY TO EARTH ORIENTATION. [NO FREEFLYING]
7. SUBMIT A FIREBIRD TANDEM INCIDENT REPORT TO FIREBIRD USA LLC WITHIN 48 HOURS ON ANY JUMP WITH A RESERVE PARACHUTE ACTIVATION OR CAUSED INJURY OR DEATH TO EITHER AN INSTRUCTOR OR PASSENGER PARACHUTIST JUMPER.
8. FOLLOW FIREBIRD USA LLC RE-CURRENCY REQUIREMENTS.
9. REFRAIN FROM ANY FORM OF SEXUAL HARASSMENT.

FIREBIRD USA LLC

WITNESS - FTIC EXAMINER:

FTIC STUDENT:

SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

## FIREBIRD TANDEM INSTRUCTOR COURSE

IF NEEDED THE STAGE 2 DOCUMENT CAN BE TORN OUT AND KEPT LOGGING YOUR JUMPS,  
JUST REMEMBER TO SEND IT TO FIREBIRD USA LLC WITHIN 10 DAYS!

REMEMBER TO SEND IN ALL REQUIRED DOCUMENTATION WITH THIS BOOKLET:

FTIC DOCUMENTS REQUIRED TO BE SENT INTO FIREBIRD FOR INSTRUCTORS IN THE USA  
AND :

- 1) TANDEM PASSENGER ASSUMPTION OF RISK AGREEMENT (SIGNATURE WITNESSED BY EXAMINER).
- 2) PARACHUTIST IN COMMAND LETTER OF AGREEMENT
- 3) FIREBIRD TANDEM INSTRUCTOR CODE OF ETHICS AGREEMENT
- 4) TANDEM INSTRUCTOR APPLICATION, STAGE 1 FORM COMPLETED.
- 5) STAGE 2 FORM COMPLETED WITH ADDITIONAL 3 TANDEM JUMPS LOGGED.
- 6) FTIC WRITTEN TEST COMPLETED, CORRECTED TO 100% AND SIGNED BY FTIC STUDENT AND EXAMINER.
- 7) MINIMUM 18 YEARS OF AGE (DRIVER LICENSE OR OTHER PHOTO ID).
- 8) FAI EXPERT PARACHUTIST LICENSE (I.E. USPA "D", CANADIAN "C" OR EQUIVALENT).
- 9) PARACHUTING INSTRUCTOR, JUMPMaster RATING, COACH RATING.
- 10) CURRENT CLASS III FLIGHT PHYSICAL OR PARACHUTING PHYSICAL APPROVED BY A NATIONAL ASSOCIATION OR THE MILITARY.
- 11) ANY TANDEM INSTRUCTOR CERTIFICATIONS FROM OTHER MANUFACTURERS.  
[CROSSOVER]

## **FIREBIRD TANDEM INSTRUCTOR COURSE**

**FTIC DOCUMENTS REQUIRED TO BE SENT INTO FIREBIRD FOR INSTRUCTORS OUTSIDE THE USA AND :**

- 1) TANDEM PASSENGER PARACHUTIST WAIVER  
[SIGNATURE WITNESSED BY EXAMINER].**
- 2) TANDEM INSTRUCTOR APPLICATION, STAGE 1 FORM COMPLETED**
- 3) CODE OF ETHICS AGREEMENT**
- 4) STAGE 2 FORM COMPLETED WITH ADDITIONAL 3 TANDEM JUMPS LOGGED.**
- 5) COPY OF ANY TANDEM INSTRUCTOR CERTIFICATIONS FROM OTHER  
MANUFACTURERS [CROSSOVER].**
- 6) COPY OF PHOTO IDENTIFICATION**

**MAIL TO:**

**FIREBIRD USA  
1405 FLIGHTLINE BLVD  
SUITE 21  
DELAND FL 32724  
USA**

# FIREBIRD TANDEM INSTRUCTOR COURSE

## STAGE 2



## **FIREBIRD TANDEM INSTRUCTOR COURSE**

**CONGRATULATIONS ON YOUR SUCCESSFUL COMPLETION OF STAGE 1 OF THE FIREBIRD TANDEM INSTRUCTOR COURSE.**

**STAGE 2 IS DESIGNED TO HELP TANDEM INSTRUCTOR FTIC STUDENTS TRANSITION FROM THE EXAMINER CONTROLLED LEARNING ENVIRONMENT OF THE COURSE, TO THE PRACTICAL REALITY OF ASSUMING THE RESPONSIBILITY OF MAKING SAFE TANDEM JUMPS WITH FIRST JUMP PASSENGER PARACHUTISTS.**

**STAGE 2 JUMPS MAY BE MADE WITH OR WITHOUT A FTIC EXAMINER BEING PRESENT.**

**DURING STAGE 2 YOU ARE OBLIGATED TO MAKE THREE TANDEM JUMPS. THESE ARE IN ADDITION TO THE QUALIFYING TANDEM JUMPS THAT YOU MADE IN STAGE 1.**

**IF THE EXAMINER HAS REQUIRED YOU TO MAKE ADDITIONAL JUMPS IN STAGE 1, THEN THOSE MAY NOT BE COUNTED TOWARDS YOUR STAGE 2 JUMPS.**

### **I. OPERATING RULES FOR STAGE 2**

- 1) ALL JUMPS SHALL BE MADE IN ACCORDANCE WITH THE FAA FAR 105.45**
- 2) THE FTIC STUDENT MUST BE TRAINED IN DEPLOYMENT OF THE DROGUE, USE OF HIS MAIN RELEASE, AND USE OF "SAFETY HANDLES" ARE OPTIONAL.**
- 3) FTIC STUDENTS MUST HAVE 100 PARACHUTES JUMPS.**
- 4) APPROPRIATE SAFETY EQUIPMENT MUST BE WORN: HEAD PROTECTION, ALTIMETER, FOOT GEAR, ETC.**
- 5) AN EXPERIENCED VIDEOGRAPHER CAN ACCOMPANY THE TANDEM PAIR SO LONG THEY MEET THE MINIMUM REQUIREMENTS FOR TANDEM VIDEO.**
- 6) NO RELATIVE WORK.**
- 7) LOG ALL STAGE 2 JUMPS ON THE LOG FORM BELOW, SCAN AND EMAIL TO [RATINGS@FLYFIREBIRD.COM](mailto:RATINGS@FLYFIREBIRD.COM)**
- 8) YOUR TANDEM INSTRUCTOR DOCUMENTS WILL BE FORWARDED TO YOU, AND YOU WILL BE PLACED ON OUR EMAIL LIST TO RECEIVE ALL NOTICES OF EQUIPMENT UPDATES, AND SAFETY BULLETINS. IT IS THE TANDEM INSTRUCTOR'S RESPONSIBILITY TO FOLLOW ALL UPDATES AND ADDRESS ANY SAFETY BULLETINS.**

**FIREBIRD TANDEM INSTRUCTOR COURSE**

9) KEEP A COPY OF THIS DOCUMENT. THIS DOCUMENT WILL AUTHORIZE YOU TO CONTINUE MAKING TANDEM JUMPS FOR 90 DAYS FROM THE DATE ON THE FRONT OF THIS FORM (SIGNED BY EXAMINER).

**TANDEM INSTRUCTOR CERTIFICATION COURSE STAGE 2**

PLEASE PRINT CLEARLY.

FULL NAME OF FTIC CANDIDATE:

-----

PHONE: -----

ADDRESS:-----

CITY: ----- ST: ----- ZIP: -----

COUNTRY: -----

**II. STAGE 2 JUMP LOG**

NO.	DATE	LOCATION	PASSENGER	ALT.	DELAY	LICENSED WITNESS
1.	-----	-----	-----	-----	-----	-----
2.	-----	-----	-----	-----	-----	-----
3.	-----	-----	-----	-----	-----	-----

FTIC STUDENTS SIGNATURE: -----

DATE: -----/----- OF 20---

BEFORE A TANDEM INSTRUCTOR MAY MAKE TANDEM JUMPS WITH A FIRST JUMP PASSENGER PARACHUTIST, FIREBIRD USA LLC REQUIRES THAT HE COMPLETE BOTH STAGE 1 & II OF THE TANDEM INSTRUCTOR COURSE

**FINAL ENDORSEMENT:**

DATE: -----/----- OF 20---

LOCATION: -----

FTIC EXAMINER (PRINT): -----

FTIC EXAMINER'S SIGNATURE: -----



# FIREBIRD TANDEM INSTRUCTOR COURSE

# TRAINING PROGRAM



# FIREBIRD TANDEM INSTRUCTOR COURSE

## STAGE 1: INITIAL 7 TRAINING JUMPS

THE TANDEM INSTRUCTOR TRAINING COURSE REQUIRES TRAINING JUMPS 2 - 7 TO BE COMPLETED UNDER THE DIRECT SUPERVISION OF A QUALIFIED TANDEM INSTRUCTOR EXAMINER.

THE FIRST 2 JUMPS ARE FAMILIARIZATION JUMPS AND THE FINAL (5) JUMPS ARE PROFICIENCY JUMPS. A MAXIMUM OF NINE JUMPS ARE ALLOWED IN THIS PHASE.

### TRAINING JUMP 1 (CANDIDATE AS PASSENGER) - MOCK STUDENT TRAINING JUMP

TANDEM INSTRUCTOR MUST BE AN EXAMINER OR A CURRENT TANDEM INSTRUCTOR. THIS JUMP CAN BE DONE WITHIN 30 DAYS OF THE START OF THE COURSE, A VIDEO OF THE JUMP MUST BE VERIFIED BY THE EXAMINER.

- STABLE EXIT FROM ABOVE 7500 FEET AGL
- SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
- CANDIDATE PERFORMS THE FOLLOWING: COA, 3 RIGHT SIDE DROGUE RELEASE TOUCHES, COA, LEG EXTENSION FOR 5 SECONDS, COA, (2) - 90 DEGREE TURNS (ALTITUDE PERMITTING)
- CANDIDATE WAVES & PULLS RIGHT SIDE DROGUE RELEASE BY 6,000 FEET

### CANOPY – PERFECT EXAMPLE

- DEMONSTRATE A CANOPY CONTROL CHECK WITH BOTH SETS OF TOGGLES
- DEMONSTRATE THE PROCEDURES FOR LOOSENING THE LOWERS AND RECONNECTING BACK TO THE INSTRUCTOR
- DEMONSTRATE HOW TO LOOSEN CHEST STRAP SLIGHTLY, SIT BACK DRILL, AND POSITION GOGGLES AS APPROPRIATE.
- DEMONSTRATE A PRACTICE FLARE WHILE INSTRUCTING THE PAX “KNEES UP, LEGS OUT” FOR LANDING.
- FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA. ENSURE A STRAIGHT IN APPROACH INTO A CLEAR OPEN AREA NO LOWER THAN 300 FEET
- SEATED LANDING ENSURING INSTRUCTOR CONTACT FIRST

### ***EVALUATOR NOTES***

***EVALUATORS MUST DEMONSTRATE PERFECT STUDENT TRAINING PROTOCOLS TO INCLUDE GROUND TRAINING, IN-FLIGHT, EXIT, FREEFALL, DEPLOYMENT, CANOPY, AND LANDING DRILLS. EVALUATOR MUST PULL THE DROGUE RELEASE BY 5K FEET IF CANDIDATE HAS NOT PULLED.***

### TRAINING JUMP 2 (CANDIDATE SOLO) - EQUIPMENT FAMILIARIZATION JUMP

IF TRAINING JUMPS 1 & 2 ARE DONE DURING THE COURSE, THEY CAN BE DONE IN EITHER ORDER.

- STABLE EXIT FROM ABOVE 7,500 FEET. AGL
- INSTABILITY DRILL WITH A SMOOTH BACK-TO-BELLY TRANSITION

## FIREBIRD TANDEM INSTRUCTOR COURSE

- SET DROGUE, CHECK DROGUE, AND PERFORM A SMOOTH HANDLES CHECK
- WHILE MAINTAINING A HEADING, MAKE [3] LEFT SIDE DROGUE RELEASE PRACTICE TOUCHES AND [1] PRACTICE RESERVE RIPCORD TOUCH
- PERFORM [2] 360 DEGREE TURNS IN BOTH DIRECTIONS (ALTITUDE PERMITTING)
- WAVE & PULL LEFT SIDE DROGUE RELEASE BY 5,500 FEET

### CANOPY – FAMILIARIZATION

- PERFORM A CANOPY CONTROL CHECK, ONCE WITH PRIMARY THEN AGAIN WITH SECONDARY TOGGLES
- DO A VISUAL INSPECTION OF CANOPY, FRONT TO BACK, SIDE TO SIDE, OBSERVE THE LINE ATTACHMENT POINTS OF PRIMARY AND SECONDARY TOGGLES, AND COLLAPSE THE SLIDER.
- DO A VISUAL INSPECTION OF THE RISER CONNECTIONS, LINE ATTACHMENTS, 3 RINGS ATTACHMENTS, CUTAWAY CABLES AND RSL ATTACHMENT.
- DO A VISUAL INSPECTION OF THE CUTAWAY AND RESERVE HANDLE.
- FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA. ENSURE A STRAIGHT IN APPROACH INTO A CLEAR OPEN AREA NO LOWER THAN 300 FEET

### ***EVALUATOR NOTES***

*WAIVER, EXAM, TRAINING APPLICATION AND ALL OTHER PREREQUISITES MUST BE MET PRIOR TO THIS JUMP.*

*CANDIDATES MUST HAVE COMPLETED GROUND TRAINING IN THE FOLLOWING TOPICS: EQUIPMENT FAMILIARIZATION, PRE-FLIGHTS, MALFUNCTIONS & EMERGENCIES, DROGUE THROWING TECHNIQUE, HANDLE CHECKS TECHNIQUE, AND SCORED 100% IN A LIVE (IN-PERSON) MALFUNCTION REVIEW TO INCLUDE PULLING TRAINING HANDLES. SOLO TANDEM SHOULD EXIT AFTER ALL THE OTHER TANDEMS AND GIVE EXTRA SEPARATION AS YOU CAN EXPECT TO GET MORE DRIFT.*

### **JUMPS 3 - 7 ARE PROFICIENCY JUMPS (CANDIDATE AS TANDEM INSTRUCTOR)**

EVALUATOR FOR JUMPS 3 - 7 CAN BE ONE OF THE FOLLOWING: TANDEM INSTRUCTOR EXAMINER, AN EXPERIENCED TANDEM INSTRUCTOR (WITH A MINIMUM OF 100 TANDEM JUMPS), AND OTHER CANDIDATES PARTICIPATING IN THE TANDEM INSTRUCTOR RATING COURSE. PASSENGERS ON TRAINING JUMPS MUST BE BRIEFED REGARDING TRAINING JUMP PROTOCOLS.

### **TRAINING JUMP 3 (CANDIDATES 1ST TANDEM)**

#### **FREEFALL: TURNS**

- STABLE EXIT FROM ABOVE 9,500 FEET
- SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
- PERFORM 1 360-DEGREE TURN FOLLOWED BY [3] LEFT SIDE DROGUE RELEASE PRACTICE TOUCHES

## FIREBIRD TANDEM INSTRUCTOR COURSE

- PERFORM (1) 360-DEGREE TURN IN THE OPPOSITE DIRECTION FOLLOWED BY 1 PRACTICE RESERVE RIPCORD PULL
- WAVE & PULL LEFT SIDE DROGUE RELEASE BY 6,000 FEET AND “FLY THE OPENING”

### CANOPY: SWEET SPOT

- RELEASE BRAKES AND ADDRESS ANY ROUTINE OPENING PROBLEMS
- PERFORM CANOPY CONTROL CHECK
- IDENTIFY FLIGHT LINE AND OTHER CANOPIES
- ORIENT YOURSELF TOWARD THE LANDING AREA
- MAKE STUDENT ADJUSTMENTS, HAVE PASSENGER SIT BACK IN THE HARNESS
- WITH BOTH SETS OF TOGGLES IN HAND PRACTICE STAGED FLARE FOCUSING ON FINDING THE SWEET SPOT (TANDEM PAIR UNDER THE NOSE)
- CONTINUE AS ALTITUDE PERMITS, ALLOW 10 SECONDS BETWEEN MANEUVERS
- FOLLOW PLANNED PATTERN OVER LANDING AREA WITH A STRAIGHT IN APPROACH FROM NO LOWER THAN 300 FEET
- SEATED LANDING ENSURING INSTRUCTOR CONTACT FIRST
- ACCURACY LANDING WITHIN 100 FEET FROM TARGET

#### ***EVALUATOR NOTES***

***CANDIDATES MUST HAVE COMPLETED GROUND TRAINING IN THE FOLLOWING TOPICS: HARNESSING, STUDENT HOOK UP PROCEDURES, HARNESS ADJUSTMENTS UNDER CANOPY, FLARE TECHNIQUE, AND SCORED 100% IN A LIVE (IN-PERSON)***

***MALFUNCTION REVIEW WITH A STAND-IN STUDENT IN THE PASSENGER POSITION. DESIGNATE TARGET LANDING AREA.***

***FREEFALL: IF CANDIDATE HAS NOT SET THE DROGUE WITHIN 10 SECONDS, THEN EVALUATOR MUST DO SO. IF THE CANDIDATE HAS NOT PULLED THE DROGUE RELEASE BY 5,000 FEET, THEN EVALUATOR MUST DO SO.***

***CANOPY: EVALUATOR MUST PRACTICE FLARING WITH THE CANDIDATE TO ENSURE SMOOTH COMMUNICATION AND TIMING OF FLARE FOR LANDING. THE FIRST LANDING IS GUIDED.***

# FIREBIRD TANDEM INSTRUCTOR COURSE

## TRAINING JUMP 4

### FREEFALL - HEADING

- STABLE EXIT FROM ABOVE 9,500 FEET
- SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
- MAINTAIN HEADING WITHIN A 90 DEGREES TOLERANCE
- WAVE & PULL LEFT SIDE DROGUE RELEASE BY 6,000 FEET

### CANOPY - FLARE TECHNIQUE

- CONDUCT ROUTINE OPENING PROCEDURES
- WITH BOTH SETS OF TOGGLES IN HAND INITIATE FIRST STAGE FLARE, PROGRESSIVELY TRANSITIONING ARMS TO AN ELBOW HIGH POSITION AND FINISHING THE FLARE BY PUSHING THE WRISTS ALL THE WAY DOWN ALONGSIDE THE INSTRUCTOR'S BODY.
- REPEAT DRILL WHILE LEANING FORWARD DURING THE TRANSITION (BOTTOM END SHOULD FEEL MORE POWERFUL)
- REPEAT DRILL WHILE LEANING BACK DURING TRANSITION (SIMULATE HAVING TO LIFT A PAX LEGS ON LANDING), ENSURE TO MAINTAIN GOOD TECHNIQUE DURING BOTTOM END.
- STOP ALL MANEUVERS BY 2,000 FEET
- IDENTIFY AREAS WHERE YOU EXPECT TO ENCOUNTER TURBULENCE, INCLUDING AREAS WHERE YOU CAN EXPECT TO FIND LIFT & SINK
- FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA. ENSURE A STRAIGHT IN APPROACH INTO A CLEAR OPEN AREA FREE OF TURBULENCE FROM NO LOWER THAN 300 FEET
- SEATED LANDING ENSURING INSTRUCTOR CONTACT FIRST
- ACCURACY LANDING WITHIN 100 FEET FROM TARGET

#### ***EVALUATOR NOTES:***

***FREEFALL: EVALUATORS SHOULD MAKE ATTEMPTS TO TAKE THE CANDIDATE OFF HEADING, PROGRESSIVELY INITIATING MORE CHALLENGING INPUTS.***

***CANOPY: ENSURE FLARE TIMING IS GOOD AND THAT THE CANDIDATE IS KEEPING THE FLARE ALONGSIDE THEIR BODY AND FINISHING IT ENTIRELY.***

## TRAINING JUMP 5

### FREEFALL - DROGUE DELAYED

- STABLE EXIT FROM ABOVE 10,500 FEET
- SET DROGUE 2,000 FEET AFTER EXITING THE AIRCRAFT (I.E. 10,500 EXIT, 9,500 DROGUE THROW)
- MAINTAINING HEADING WITHIN 90 DEGREE TOLERANCE
- WAVE & PULLS LEFT SIDE DROGUE RELEASE BY 6,000 FEET

### CANOPY - FLIGHT CYCLE & ½ BRAKED FLARES

- CONDUCT ROUTINE OPENING PROCEDURES

## FIREBIRD TANDEM INSTRUCTOR COURSE

- WITH BOTH SETS OF TOGGLES IN HAND, SLOWLY AND SYMMETRICALLY APPLY FULL BRAKES, FLY STRAIGHT FOR AT LEAST 8 TO 10 SECONDS TO ESTABLISH A CONSTANT DESCENT RATE THEN SYMMETRICALLY RETURN TO FULL FLIGHT OBSERVING THE FLIGHT CYCLE [APPROX. 10 SECONDS]
- WITH BOTH SETS OF TOGGLES IN HAND GO TO THE HALF-BRAKED POSITION, HOLD FOR 3-4 SECONDS AND FINISH WITH AN AGGRESSIVE FLARE, OBSERVE PITCH
- STOP ALL MANEUVERS BY 3,000 FEET
- IDENTIFY THE DISTANCE AND HEIGHT IN WHICH YOU CAN EXPECT TO ENCOUNTER TURBULENCE IN VARIOUS WIND AND TEMPERATURE CONDITIONS, INCLUDING AREAS OF LIFT AND SINK.

### ***EVALUATOR NOTES:***

*FREEFALL: GIVE CANDIDATE 500 FEET TOLERANCE TO SET THE DROGUE, THE SAME APPLIES FOR PULLING THE DROGUE RELEASE. DECISION ALTITUDE FOR A NO-DROGUE EMERGENCY IS 3,000 FEET. CANOPY: DURING SINK DRILL, ENCOURAGE THE CANDIDATE TO MAKE FULL USE OF TOGGLES IN DEEP BRAKES. EXPLAIN EFFECTS ON TANDEM CANOPY FROM ALL TURBULENCE INDUCING FACTORS. EVALUATOR FOR JUMPS 5 & 6 CAN BE ONE OF THE FOLLOWING: TANDEM INSTRUCTOR EXAMINER OR EXPERIENCED TANDEM INSTRUCTOR [WITH A MINIMUM OF 100 TANDEM JUMPS].*

### **TRAINING JUMP 6**

#### **FREEFALL: UNSTABLE EXIT + TERMINAL**

- UNSTABLE EXIT FROM ABOVE 10,500 FEET TO INCLUDE A BACK TO BELLY TRANSITION
- REGAIN CONTROL WITHIN 10 SECONDS AND PERFORM 2 OPPOSING 360 DEGREE TURNS
- SET DROGUE BY 7,500 FEET [GUARANTEE A MINIMUM OF 3,000 FEET DROGUE LESS FREEFALL]
- SET DROGUE, CHECK DROGUE, AND RESERVE RIPCORD HANDLE CHECKS
- MAINTAINING HEADING WITHIN 45-DEGREE TOLERANCE
- PULL DROGUE RELEASE HANDLE BY 6,500 FEET

#### **CANOPY: TURN RECOVERY TO FLARE**

- CONDUCT ROUTINE OPENING PROCEDURES
- WITH BOTH SETS OF TOGGLES IN HAND, INITIATE A TURN REVERSAL, BEGIN WITH AN AGGRESSIVE 90 DEGREE TURN IN ONE DIRECTION IMMEDIATELY FOLLOWED BY A 180 TURN IN THE OPPOSITE DIRECTION
- NEUTRALIZE THE TURN BY MATCHING THE TOGGLES AND FOLLOW THROUGH WITH A SYMMETRIC FLARE
- NOTICE THE FORCES ON THE SYSTEM AND EFFORT NEEDED TO SAFELY RECOVER AND ACHIEVE THE NUMBER 1 LANDING PRIORITY, LEVEL WING
- REPEAT IN THE OPPOSITE DIRECTION.
- STOP ALL MANEUVERS BY 3,000 FEET
- FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA WITH A STRAIGHT IN APPROACH FROM NO LOWER THAN 300 FEET

## FIREBIRD TANDEM INSTRUCTOR COURSE

- LAND WITHIN 75 FEET OF TARGET

### ***EVALUATOR NOTES:***

***FREEFALL: GIVE CANDIDATE 500 FEET TOLERANCE TO SET THE DROGUE, THE SAME APPLIES FOR PULLING THE DROGUE RELEASE. DECISION ALTITUDE FOR A NO-DROGUE EMERGENCY IS 3,000 FEET.***

### **TRAINING JUMP 7**

#### **FREEFALL - CHECK OUT DIVE, CAT B**

- UNSTABLE EXIT FROM ABOVE 10,500 FEET
- REGAIN STABILITY AND MAINTAIN HEADING BEFORE SETTING DROGUE
- SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
- MAINTAIN HEADING WITHIN A 45-DEGREES TOLERANCE
- WAIVE & PULL LEFT SIDE DROGUE RELEASE BY 6,000 FEET

#### **CANOPY - STALL, SINK/SURGE & SASHAY**

**THIS KNOWLEDGE IS TO BE USED AS A RECOVERY MANEUVER IN CASE OF A CANOPY EMERGENCY PROCEDURE (CEP). SINK/SURGE FOR LANDING IS AN ADVANCED MANEUVER.**

- CONDUCT ROUTINE OPENING PROCEDURES
- THE FOLLOWING SHOULD BE DONE WITH BOTH SETS OF TOGGLES IN HAND:
  - FLY THE CANOPY IN FULL BRAKES AND STRAIGHT FOR AT LEAST 8 TO 10 SECONDS TO ESTABLISH A CONSTANT SINK RATE IN AN ATTEMPT TO CREATE A STALL, RETURN TO FULL FLIGHT AND OBSERVE THE SURGE
  - FLY THE CANOPY IN 3/4 BRAKES AND STRAIGHT FOR AT LEAST 8 TO 10 SECONDS THEN SURGE THE PARACHUTE BY GOING TO FULL FLIGHT SLOWLY, FLARE 4-5 SECONDS FOLLOWING RECOVERY
  - FLY THE CANOPY IN 3/4 BRAKES AND STRAIGHT FOR AT LEAST 8 TO 10 SECONDS, MAKE A NEGATIVE 90 DEGREE TURN TO THE RIGHT AND THEN TO THE LEFT, THEN SURGE THE PARACHUTE BY GOING TO FULL FLIGHT SLOWLY, FLARE 4-5 SECONDS FOLLOWING RECOVERY
- STOP ALL MANEUVERS BY 2,000 FEET
- FOCUSING ON ACCURACY; FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA WITH A STRAIGHT IN APPROACH FROM NO LOWER THAN 300 FEET
- LAND WITHIN 75 FEET OF ESTABLISHED TARGET

### ***EVALUATOR NOTES:***

***FREEFALL: ON EXIT, INITIATE A FLAT CARTWHEEL. CANDIDATE SHOULD STOP THE TURN BEFORE SETTING THE DROGUE.***

***SOME OF THE ABOVE JUMPS MAY BE REPEATED UNTIL THE APPLICANT MEETS THE PERFORMANCE GOALS AS DETERMINED BY THE EXAMINER. LOG ONLY THE INITIAL TRAINING JUMPS IN THE SPACES BELOW. THREE EXTRA SPACES ARE AVAILABLE IF NEEDED. IF THE CANDIDATE CANNOT ACHIEVE SATISFACTORY PERFORMANCE WITHIN 9 JUMPS, THE EXAMINER MUST FILL OUT REFUSAL/DISMISSAL CRITERIA FORM TO BE SIGNED BY THE CANDIDATE AND SUBMITTED TO FIREBIRD. THE CANDIDATE MAY***

## FIREBIRD TANDEM INSTRUCTOR COURSE

***NOT CONTINUE WITH TRAINING AND MAY NOT PARTICIPATE IN ANOTHER COURSE WITHOUT COMPLETING A PLANNED COURSE OF TRAINING PRESCRIBED BY THE EXAMINER.***

### **STAGE 2: TRAINING JUMPS**

**PASSENGER FOR JUMPS 8-10 CAN BE ONE OF THE FOLLOWING: TANDEM INSTRUCTOR EXAMINER, AN EXPERIENCED**

**TANDEM INSTRUCTOR, OTHER CANDIDATES PARTICIPATING IN THE TANDEM INSTRUCTOR RATING COURSE, AND AN**

**EXPERIENCED JUMPER WITH A MINIMUM OF 100 JUMPS. PASSENGERS ON TRAINING JUMPS MUST BE BRIEFED**

**REGARDING TRAINING JUMP PROTOCOLS.**

### **TRAINING JUMP 8**

#### **FREEFALL - PRACTICAL TRAINING JUMP - CAT A**

- **UNSTEADY EXIT FROM ABOVE 9,500 FEET**
- **REGAIN STABILITY AND MAINTAIN HEADING BEFORE SETTING DROGUE**
- **SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS**
- **MAINTAIN HEADING WITHIN A 45 DEGREES TOLERANCE**
- **WAVE & PULL LEFT SIDE DROGUE RELEASE BY 6,000 FEET**

#### **CANOPY - FLAT TURNS AND ½ BRAKED APPROACH**

- **CONDUCT ROUTINE OPENING PROCEDURES**
- **IDENTIFY OTHER CANOPIES IN THE PATTERN AND CONTINUOUSLY OBSERVE THEIR SPEED ON FINAL**
- **PULL BOTH SETS OF TOGGLES SMOOTHLY AND EVENLY TO ½ BRAKES, PERFORM A NEGATIVE 45-DEGREE FLAT TURN AND FINISH WITH AN AGGRESSIVE SYMMETRICAL FLARE (MATCH & FINISH), REPEAT IN OPPOSITE DIRECTION**
- **PULL BOTH SETS OF TOGGLES SMOOTHLY AND EVENLY TO ½ BRAKES, PERFORM A POSITIVE 45-DEGREE FLAT TURN AND FINISH WITH AN AGGRESSIVE SYMMETRICAL FLARE (MATCH & FINISH), REPEAT IN OPPOSITE DIRECTION**
- **STOP ALL MANEUVERS BY 2,000 FEET**
- **FOLLOW A HALF-BRAKED APPROACH OVER YOUR LANDING AREA, ONCE ON FINAL RESUME A FULL FLIGHT STRAIGHT IN APPROACH FROM NO LOWER THAN 300 FEET, TAKE NOTE OF GLIDE RATIO AND LANDING POINT IF YOU MAINTAINED A HALF-BRAKED APPROACH (LONG)**
- **LAND WITHIN 75 FEET FROM THE TARGET**

#### **PASSENGER NOTES:**

**ENSURE YOU HAVE SIGNED A WAIVER, WATCHED THE USPA LIABILITY VIDEO AND HAVE BEEN BRIEFED IN TRAINING PROTOCOLS. GIVE REASONABLE PROBLEMS ON EXIT AND IN FREEFALL.**



# FIREBIRD TANDEM INSTRUCTOR COURSE

## TRAINING JUMP 9

### FREEFALL - PRACTICAL TRAINING JUMP + CAT B

- UNSTEADY EXIT FROM ABOVE 9,500 FEET
- REGAIN STABILITY AND MAINTAIN HEADING BEFORE SETTING DROGUE
- SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
- MAINTAIN HEADING WITHIN A 45 DEGREES TOLERANCE
- WAVE & PULL LEFT SIDE DROGUE RELEASE BY 6,000 FEET

### CANOPY - STACKING & COMMUNICATION

BEFORE THE JUMP, IDENTIFY THE DESCENT RATE OF THE OTHER TANDEM ON THE LOAD AND COMPARE IT TO YOURS.

- CONDUCT ROUTINE OPENING PROCEDURES
- IF ON LEVEL WITH ANOTHER TANDEM CANOPY COMPARE THE DESCENT RATE AND DETERMINE WHETHER TO HOLD OR PASS IN THE STACK
- TO HOLD FLY CANOPY IN A HALF-BRAKED POSITION, ATTEMPT TO MAKE IT IS OBVIOUS THAT YOU ARE COMMUNICATING A HOLD
- TO PASS DO A ONE TIGHT 360-DEGREE SPIRAL TO COMMUNICATE THAT YOU ARE TAKING THE RIGHT OF WAY
- ESTABLISH LANDING ORDER BY 2,000 FEET
- FOCUSING ON ACCURACY FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA WITH A STRAIGHT IN APPROACH FROM NO LOWER THAN 300 FEET
- LAND WITHIN 50 FEET OF TARGET

#### **PASSENGER NOTES:**

ENSURE YOU HAVE SIGNED A WAIVER, WATCHED THE USPA LIABILITY VIDEO AND HAVE BEEN BRIEFED IN TRAINING PROTOCOLS. GIVE REASONABLE PROBLEMS ON EXIT AND IN FREEFALL.

## TRAINING JUMP 10

### FREEFALL - PRACTICAL TRAINING JUMP + CAT B

- UNSTEADY EXIT FROM ABOVE 9,500 FEET
- REGAIN STABILITY AND MAINTAIN HEADING BEFORE SETTING DROGUE
- SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
- MAINTAIN HEADING WITHIN A 45 DEGREES TOLERANCE
- WAVE & PULL LEFT SIDE DROGUE RELEASE BY 6,000 FEET

### CANOPY - PENETRATION CHECKS & CRABBING

- CONDUCT ROUTINE OPENING PROCEDURES
- DO A PENETRATION CHECK. IN THE HOLDING AREA WHILE FLYING INTO THE WIND WHILE IN FULL FLIGHT, LOOK DOWN OVER THE GROUND TO SEE YOUR FORWARD PENETRATION FOR APPROX. 300 FEET OF VERTICAL DESCENT.

## **FIREBIRD TANDEM INSTRUCTOR COURSE**

- **MAKING USE OF THE CROSSWIND, CRAB THE CANOPY TO THE RIGHT FOR APPROX. 300 FEET OF VERTICAL DESCENT, OBSERVE THE HORIZONTAL DISTANCE & TRAJECTORY OVER THE GROUND**
- **MAKING USE OF THE CROSSWIND, CRAB THE CANOPY TO THE LEFT FOR APPROX. 300 FEET OF VERTICAL DESCENT, OBSERVE THE HORIZONTAL DISTANCE & TRAJECTORY OVER THE GROUND**
- **STOP ALL MANEUVERS BY 1,000 FEET**
- **FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA. ENSURE A STRAIGHT IN APPROACH INTO A CLEAR OPEN AREA FREE OF TURBULENCE FROM NO LOWER THAN 300 FEET**
- **LAND WITHIN 50 FEET OF TARGET**

### **PASSENGER NOTES:**

**ENSURE YOU HAVE SIGNED A WAIVER, WATCHED THE USPA LIABILITY VIDEO AND HAVE BEEN BRIEFED IN TRAINING PROTOCOLS. GIVE REASONABLE PROBLEMS ON EXIT AND IN FREEFALL.**

### **PROBATIONARY PERIOD**

**AN APPLICANT IS ON PROBATION UNTIL HE/SHE HAS COMPLETED 25 JUMPS, 15 OF WHICH ARE MADE AFTER THE INITIAL TRAINING COURSE AND FAMILIARIZATION TANDEM SKYDIVES.**

**REQUIREMENTS FOR NEXT FIFTEEN (11-25) POST COURSE PROBATIONARY JUMPS:**

- **MINIMUM EXIT ALTITUDE: 9000 FT**
- **MINIMUM OPEN AND FLYING MAIN CANOPY ALTITUDE: 4500 FT**
- **THE PASSENGER SHOULD BE OF SIMILAR OR LESSER SIZE THAN TANDEM INSTRUCTOR**
- **THE MAX BODY WEIGHT FOR PASSENGER IS 200LBS**
- **THE MAX HEIGHT FOR PASSENGER IS 6'0" TALL**
- **NO RELATIVE WORK**
- **AN EXPERIENCED VIDEOGRAPHER MAY ACCOMPANY THE TANDEM PAIR, PROVIDING HE/SHE CAN EXIT THE AIRCRAFT AND SKYDIVE WITHOUT INTERFERING WITH THE TANDEM**
- **THE PASSENGER MAY BE A FIRST-TIME STUDENT**
- **CANDIDATE MUST LOG THESE 15 JUMPS**

### **RECOMMENDATION FOR PROGRESSION**

- **PASSENGER SIZE, WEIGHT AND WING LOADING SHOULD NOT BE INCREASED (PER PROBATIONARY STANDARDS) UNTIL THE TANDEM INSTRUCTOR HAS DEMONSTRATED CONSISTENT STABLE EXITS, STABILITY AND HEADING CONTROL DURING DROGUE FALL, AND SOFT ON-TARGET LANDINGS.**
- **IF THE TANDEM INSTRUCTOR IS DEMONSTRATING DIFFICULTY, THEY SHOULD GET VIDEOS OF THEIR TANDEM JUMPS AND SEND THEM TO THEIR EXAMINER FOR VIEWING AND DISCUSSION ON HOW TO IMPROVE.**
- **TANDEM INSTRUCTOR SHOULD NOT CHANGE PROCEDURES AS THEY WERE TAUGHT BY THEIR EXAMINER.**

## **FIREBIRD TANDEM INSTRUCTOR COURSE**

- **JUMPING IN HIGH WINDS IS NOT RECOMMENDED UNTIL THE TANDEM INSTRUCTOR HAS DEMONSTRATED ON TARGET LANDINGS. AN INCREASE IN WIND LIMITS SHOULD BE DONE AT A PACE THAT ALLOWS FOR THE PROPER DEVELOPMENT OF CANOPY SKILLS. IT IS RECOMMENDED THAT NEW TANDEM INSTRUCTORS STICK TO A 15 MPH MAX UNTIL THEY HAVE DEMONSTRATED GOOD ACCURACY.**
- **TANDEM INSTRUCTORS SHOULD BE LIMITED TO 5 JUMPS PER DAY AND 40 MINUTES BETWEEN LOADS UNTIL THEY HAVE DEMONSTRATED GOOD ROUTINE AND PACE.**

# FIREBIRD TANDEM INSTRUCTOR COURSE

# CROSSOVER TRAINING PROGRAM



# FIREBIRD TANDEM INSTRUCTOR COURSE

## ***CROSSOVER TRAINING PROGRAM***

### 1 JUMP

#### **CROSSOVER TRAINING JUMP 1 - CHECK OUT DIVE**

##### **FREEFALL - PHASE 1 CHECK OUT DIVE**

1. UNSTABLE EXIT FROM ABOVE 9,500 FEET
2. REGAIN STABILITY AND MAINTAIN HEADING BEFORE SETTING DROGUE
3. SET DROGUE (WITHIN 5-8 SECONDS), CHECK DROGUE, AND PERFORM HANDLES CHECKS
4. MAINTAIN HEADING WITHIN A 45 DEGREES TOLERANCE
5. WAVE & PULL LEFT SIDE DROGUE RELEASE BY 5,500 FEET

##### **CANOPY - TURN & TURBULENCE RECOVERY**

1. CONDUCT ROUTINE OPENING PROCEDURES
2. WITH BOTH SETS OF TOGGLES IN HAND, INITIATE A TURN REVERSAL AKA REVERSE TURN, 90-DEGREE TURN IN ONE DIRECTION FOLLOWED BY A 180 TURN IN THE OPPOSITE DIRECTION
3. NEUTRALIZE THE TURN AND FOLLOW THROUGH WITH A SYMMETRIC FLARE
4. NOTICE THE FORCES ON THE SYSTEM AND EFFORT NEEDED TO SAFELY RECOVER TO ACHIEVE THE NUMBER 1 LANDING PRIORITY, LEVEL WING
5. REPEAT IN THE OPPOSITE DIRECTION.
6. STOP ALL MANEUVERS BY 3,000 FEET
7. FOLLOW A PLANNED PATTERN OVER YOUR LANDING AREA WITH A STRAIGHT IN APPROACH FROM NO LOWER THAN 300 FEET
8. LAND WITHIN 75 FEET OF TARGET

#### ***EVALUATOR NOTES***

***CANDIDATES MUST HAVE COMPLETED GROUND TRAINING IN THE FOLLOWING TOPICS: HARNESSING, STUDENT HOOK UP PROCEDURES, HARNESS ADJUSTMENTS UNDER CANOPY, FLARE TECHNIQUE, AND SCORED 100% IN A LIVE (IN-PERSON) MALFUNCTION REVIEW WITH A STAND-IN STUDENT IN THE PASSENGER POSITION. DESIGNATE TARGET LANDING AREA.***

***FREEFALL: IF CANDIDATE HAS NOT SET THE DROGUE WITHIN 10 SECONDS, THEN EVALUATOR MUST DO SO. IF THE CANDIDATE HAS NOT PULLED THE DROGUE RELEASE BY 5,000 FEET, THEN EVALUATOR MUST DO SO. GIVE THE CANDIDATE 500 FEET TOLERANCE TO SET THE DROGUE, THE SAME APPLIES FOR PULLING THE DROGUE RELEASE.***

***DECISION ALTITUDE FOR A NO-DROGUE EMERGENCY IS 3,000 FEET.***

***CANOPY: DURING SINK DRILL, ENCOURAGE THE CANDIDATE TO MAKE FULL USE OF TOGGLES IN DEEP BRAKES. EXPLAIN EFFECTS ON TANDEM CANOPY FROM ALL TURBULENCE INDUCING FACTORS.***

# FIREBIRD TANDEM INSTRUCTOR COURSE

# EXAMINER CROSSOVER TRAINING PROGRAM



# FIREBIRD TANDEM INSTRUCTOR COURSE

## *EXAMINER CROSSOVER TRAINING FROM SIGMA*

### *2 JUMPS*

#### **EXAMINER CROSSOVER TRAINING JUMP 1 (AS PASSENGER)**

**FREEFALL: UNSTABLE EXIT W 2,000 FEET DROGUE DELAY**

- 1. UNSTABLE EXIT FROM ABOVE 10,500 FEET TO INCLUDE A BACK TO BELLY TRANSITION**
- 2. REGAIN CONTROL WITHIN 10 SECONDS AND DEMONSTRATE STABLE FREEFALL**
- 3. SET DROGUE 2,000 FEET AFTER EXITING THE AIRCRAFT (I.E. 11,000 EXIT, 9,000 DROGUE THROW)**
- 4. SET DROGUE, CHECK DROGUE, AND PERFORM HANDLES CHECKS**
- 5. MAINTAINING HEADING WITHIN 45-DEGREE TOLERANCE**
- 6. PULL DROGUE RELEASE HANDLE BY 5,500 FEET**

**CANOPY - FLIGHT CYCLE & ½ BRAKED FLARES**

- 1. CONDUCT ROUTINE OPENING PROCEDURES**
- 2. WITH BOTH SETS OF TOGGLES IN HAND, SLOWLY AND SYMMETRICALLY APPLY FULL BRAKES, FLY STRAIGHT FOR AT LEAST 8 TO 10 SECONDS TO ESTABLISH A CONSTANT DESCENT RATE THEN SYMMETRICALLY RETURN TO FULL FLIGHT OBSERVING THE FLIGHT CYCLE (APPROX. 10 SECONDS)**
- 3. WITH BOTH SETS OF TOGGLES IN HAND GO TO THE HALF-BRAKED POSITION, HOLD FOR 3-4 SECONDS AND FINISH WITH AN AGGRESSIVE FLARE, OBSERVE PITCH**
- 4. STOP ALL MANEUVERS BY 3,000 FEET**
- 5. IDENTIFY AREAS WHERE YOU EXPECT TO ENCOUNTER TURBULENCE, INCLUDING AREAS WHERE YOU CAN EXPECT TO FIND LIFT & SINK**
- 6. IDENTIFY THE DISTANCE AND HEIGHT IN WHICH YOU CAN EXPECT TO ENCOUNTER TURBULENCE IN VARIOUS WIND AND TEMPERATURE CONDITIONS**

#### ***EVALUATOR NOTES***

***CANDIDATES MUST HAVE COMPLETED GROUND TRAINING IN THE FOLLOWING TOPICS: HARNESSING, STUDENT HOOK UP PROCEDURES, HARNESS ADJUSTMENTS UNDER CANOPY, FLARE TECHNIQUE, AND SCORED 100% IN A LIVE (IN-PERSON)***

***MALFUNCTION REVIEW WITH A STAND-IN STUDENT IN THE PASSENGER POSITION. DESIGNATE TARGET LANDING AREA.***

***FREEFALL: IF CANDIDATE HAS NOT SET THE DROGUE WITHIN 10 SECONDS THEN EVALUATOR MUST DO SO. IF THE CANDIDATE HAS NOT PULLED THE DROGUE RELEASE BY 5,000 FEET THEN EVALUATOR MUST DO SO. GIVE THE CANDIDATE 500 FEET TOLERANCE TO SET THE DROGUE, THE SAME APPLIES FOR PULLING THE DROGUE RELEASE.***

***DECISION ALTITUDE FOR A NO-DROGUE EMERGENCY IS 3,000 FEET.***

***CANOPY: DURING SINK DRILL, ENCOURAGE THE CANDIDATE TO MAKE FULL USE OF TOGGLES IN DEEP BRAKES. EXPLAIN EFFECTS ON TANDEM CANOPY FROM ALL TURBULENCE INDUCING FACTORS.***

## FIREBIRD TANDEM INSTRUCTOR COURSE

### EXAMINER CROSSOVER TRAINING JUMP 2 (AS INSTRUCTOR)

FREEFALL: UNSTABLE EXIT W 2,000 FEET DROGUE DELAY

7. UNSTABLE EXIT FROM ABOVE 10,500 FEET TO INCLUDE A BACK TO BELLY TRANSITION
8. REGAIN CONTROL WITHIN 10 SECONDS AND DEMONSTRATE STABLE FREEFALL
9. SET DROGUE 2,000 FEET AFTER EXITING THE AIRCRAFT (I.E. 11,000 EXIT, 9,000 DROGUE THROW)
10. SET DROGUE, CHECK DROGUE, AND PERFORM HANDLES CHECKS
11. MAINTAINING HEADING WITHIN 45 DEGREE TOLERANCE
12. PULL DROGUE RELEASE HANDLE BY 5,500 FEET

CANOPY - FLIGHT CYCLE & ½ BRAKED FLARES

7. CONDUCT ROUTINE OPENING PROCEDURES
8. WITH BOTH SETS OF TOGGLES IN HAND, SLOWLY AND SYMMETRICALLY APPLY FULL BRAKES, FLY STRAIGHT FOR AT LEAST 8 TO 10 SECONDS TO ESTABLISH A CONSTANT DESCENT RATE THEN SYMMETRICALLY RETURN TO FULL FLIGHT OBSERVING THE FLIGHT CYCLE (APPROX. 10 SECONDS)
9. WITH BOTH SETS OF TOGGLES IN HAND GO TO THE HALF-BRAKED POSITION, HOLD FOR 3-4 SECONDS AND FINISH WITH AN AGGRESSIVE FLARE, OBSERVE PITCH
10. STOP ALL MANEUVERS BY 3,000 FEET
11. IDENTIFY AREAS WHERE YOU EXPECT TO ENCOUNTER TURBULENCE, INCLUDING AREAS WHERE YOU CAN EXPECT TO FIND LIFT & SINK
12. IDENTIFY THE DISTANCE AND HEIGHT IN WHICH YOU CAN EXPECT TO ENCOUNTER TURBULENCE IN VARIOUS WIND AND TEMPERATURE CONDITIONS

### ***EVALUATOR NOTES***

***CANDIDATES MUST HAVE COMPLETED GROUND TRAINING IN THE FOLLOWING TOPICS: HARNESSING, STUDENT HOOK UP PROCEDURES, HARNESS ADJUSTMENTS UNDER CANOPY, FLARE TECHNIQUE, AND SCORED 100% IN A LIVE (IN-PERSON) MALFUNCTION REVIEW WITH A STAND-IN STUDENT IN THE PASSENGER POSITION. DESIGNATE TARGET LANDING AREA.***

***FREEFALL: IF CANDIDATE HAS NOT SET THE DROGUE WITHIN 10 SECONDS, THEN EVALUATOR MUST DO SO. IF THE CANDIDATE HAS NOT PULLED THE DROGUE RELEASE BY 5,000 FEET THEN EVALUATOR MUST DO SO. GIVE THE CANDIDATE 500 FEET TOLERANCE TO SET THE DROGUE, THE SAME APPLIES FOR PULLING THE DROGUE RELEASE.***

***DECISION ALTITUDE FOR A NO-DROGUE EMERGENCY IS 3,000 FEET.***

***CANOPY: DURING SINK DRILL, ENCOURAGE THE CANDIDATE TO MAKE FULL USE OF TOGGLES IN DEEP BRAKES. EXPLAIN EFFECTS ON TANDEM CANOPY FROM ALL TURBULENCE INDUCING FACTORS.***