

# BASIC SAFETY REQUIREMENTS (BSRs)

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## **1 DZ OPERATIONS**

### **1.1 ADMINISTRATION**

- 1.1.1 All Sport Parachutists shall be paid up members of the Parachute Association of Namibia (PANAM)
- 1.1.2 A sport parachutist shall be a minimum of 18 (eighteen years) of age or a minimum of 16 (sixteen years) of age, with the written consent of the minor's guardian.
- 1.1.3 A sport parachutist shall, prior to his first parachute descent, satisfy his Chief instructor that he is medically fit to participate in parachuting by means of a certificate from a medical doctor or by means of a medical indemnity form.
- 1.1.4 The DZO shall keep this certificate or indemnity on record.

### **1.2 GENERAL ACTIVITIES**

- 1.2.1 Sport parachuting at an approved, permanent, student DZ may only be conducted with the authority of, and under supervision of, a current appropriately rated PANAM Instructor, approved by the PANAM as the Chief Instructor. When absent, he must appoint another competent and current appropriately rated PANAM Instructor to assume his duties in his absence. (For activities of B licence and higher, he may appoint a competent and current PANAM D licence holder to supervise.)
- 1.2.2 Sport parachuting at an approved, permanent, B-licence DZ, may only be conducted with the authority of, and under supervision of, a current PANAM D Licence holder approved by the PANAM as the Safety Officer. When absent, he must appoint another competent and current PANAM D licence holder to assume his duties in his absence.
- 1.2.3 Operations at non-permanent DZs (i.e. go-aways or demonstration jumps) may only be conducted after the necessary permissions have been obtained from both the National Safety and Training Officer (NSTO) and the Namibian Civil Aviation Authority (NCAA), and must be conducted in accordance with those permissions.
- 1.2.4 The DZO or SJO is responsible for all parachuting activities undertaken by his operation, regardless of the activity taking place, i.e. boogies, competitions etc. The DZO shall at all times be held responsible for the safe conduct of parachuting and the adherence to the PANAM Manual of Procedures (PANAM MOPs) and Standard Operating Procedures (SOPs).
- 1.2.5 A manifest list must be completed for each aircraft load. A loadmaster or jumpmaster must be identified for each load. It is the loadmaster or jumpmaster's responsibility to ensure that all parachutists are checked out prior to enplaning.
- 1.2.6 Except on demonstration jumps every parachutist shall ensure that his main canopy is fully inflated not lower than 2200ft above ground level (AGL).
- 1.2.7 No person shall make a parachute descent while under the influence of alcohol or a drug having a narcotic effect.
- 1.2.8 Maximum wind conditions for the use of the different categories of canopies shall be:
  - Student 15 knots (27 km/hr)
  - Non-student CI/SO discretion
- 1.2.9 A CI/SO or SJO may prevent any individual from participating in sport parachuting activities under his supervision, if in his opinion the individual constitutes a threat to the safe conduct of the activity.

### 1.3 EQUIPMENT

- 1.3.1 Parachute equipment may malfunction even when properly designed, manufactured, assembled, packed, maintained and used. The result of such malfunction could be serious injury or death.
- 1.3.2 No sport parachutists shall make or attempt to make a parachute descent unless wearing both main and reserve parachutes attached to a single harness. Tandem parachuting being the only exception as it requires a dual harness system.
- 1.3.3 Parachutes used for sport parachuting shall be categorised as follows:
  - STUDENT EQUIPMENT  
Ram-air parachutes, suitable for the use by students, which have been de-tuned (i.e.: steering lines lengthened or otherwise adjusted to prevent stalling) and approved by the CI.
  - NON-STUDENT EQUIPMENT  
All other ram-air parachute types.
- 1.3.4 The CI shall be responsible for the inspection and approval of all equipment to be used by students at his DZ.
- 1.3.5 All parachuting equipment to be used by student parachutists shall have a packing record.
- 1.3.6 The owner and/or, in the case of B, C and D licence holders, the user of equipment is responsible for it's maintenance.
- 1.3.7 No parachute equipment shall be used where the reserve has not been packed, and recorded on a valid data card, within the previous six (6) months by qualified person(s), as designated by PANAM. (See Section 16 - Rigging Regulations.)
- 1.3.8 Reserve parachutes and harnesses used for sport parachuting shall have a maximum 20-year lifetime.
- 1.3.9 All parachute harnesses and reserve parachutes offered for sale in Namibia, manufactured after 1 January 1999, shall have complied with a TSO test or similar.
- 1.3.10 A suitable knife shall be carried in all aircraft from which static line parachuting is conducted.
- 1.3.11 All parachutists doing solo descents in excess of 15 seconds shall wear a functioning altimeter.
- 1.3.12 Where less than 8 participants engage in Formation Skydiving, at least 50% must wear functioning altimeters where they are readily visible. Where 8 or more participants are involved in a formation, at least 25% must wear functioning altimeters where they are readily visible.
- 1.3.13 All equipment used for student freefall progression shall be fitted with a serviceable Automatic Activation Device (AAD). It is highly recommended that all equipment used be fitted with a serviceable Automatic Activation Device (AAD).
- 1.3.14 Student parachutists shall wear NSTO approved hard helmets. B & C Licence holders shall wear at least a NSTO approved French frappe hat.
- 1.3.15 Visiting Foreign or Military qualified jumpers participating in PANAM activities may utilize equipment manufactured and maintained in compliance with regulations of their organisation. If such equipment does not comply with PANAM regulations then, however, the above points apply. They may not let PANAM members use such equipment.
- 1.3.16 Notwithstanding the above, the CI or SO may prevent any person from using equipment that in his opinion is unfit for use.

## **1.4 STUDENT/INTERMEDIATE ACTIVITIES**

- 1.4.1 A student parachutist shall be one who has not completed a PANAM Progression Programme.
- 1.4.2 An Intermediate parachutist shall be a non-student who has not yet obtained a B licence.
- 1.4.3 Student and Intermediate parachuting and training may only be conducted by or under the direct supervision of a current, appropriately rated PANAM Instructor. See also 1.2 above.
- 1.4.4 A PANAM Jumpmaster must accompany every student in the aircraft until he has completed the 20 sec dive exit test and is approved to despatch himself by the CI.
- 1.4.5 Student parachutists shall progress via a PANAM Progression Programme as laid down by PANAM. A student on such a programme may only perform jumps on that programme for which he has specifically been cleared and briefed. He may repeat previously successfully completed jumps with CI's clearance.
- 1.4.6 No student instruction may be given in the use of round main parachutes.
- 1.4.7 No intermediate parachutist shall be allowed to progress from student to non-student equipment without receiving the prescribed training.
- 1.4.8 Before participating in any sub-discipline an intermediate parachutist shall successfully complete the PANAM Intermediate Skills Programme.
- 1.4.9 The currency of a student or intermediate must be verified before he is permitted to jump.

## **1.5 PARACHUTING INCIDENTS**

- 1.5.1 All incidents (an incident being any unusual occurrence) must be reported on the prescribed PANAM form to the NSTO within 7 days thereof.
- 1.5.2 In the event of a fatality, it must be reported immediately to the following:
  - Emergency services
  - CI
  - NSTO
  - DAAI (via telephone – 081 977 00)
  - Air Traffic Control (NSTO via telephone – 062 702 490)
  - Local Namibian Police
  - Next of kin, preferable by way of the police unless if a close family friend is nearby
  - NSTO to send preliminary incident report to DAAI within 72 hours (via email – incidents@dca.com.na)

## **1.6 WAIVERS**

Waivers from any one of these Requirements, unless expressly stated otherwise in the requirements, may only be obtained from the NSTO, after application in writing via an affiliated organisation's / DZs CI, SO or SJO.

## **1.7 DISCIPLINE**

- 1.7.1 Failure to comply with these Requirements may result in grounding or a suspension of the parachutist's rating by a CI/SO/SJO, which action will be reported to the NSTO within 7 days thereof. The parachutist must be given a copy of the grounding notice, and a further copy must be sent to the NSTO within 30 days.
- 1.7.2 The NSTO shall have the right to suspend or withdraw any PANAM rating for any breach of these Requirements. Rating holders who do not ensure that these Requirements are enforced, may, after investigation by the NSTO, have their rating suspended or withdrawn.

- 1.7.3 Any parachutist disciplined shall have the right to appeal to the NSTO and thereafter to PANAM.
- 1.7.4 The NSTO may suspend operations of any PANAM affiliated DZ or organisation that does not conform to these requirements.
- 1.7.5 PANAM shall not be held responsible for DZs operations beyond the jurisdiction of PANAM, as defined by NCAA and these Requirements.

## **2 SKYDIVING CLASSIFICATIONS**

### **2.1 LICENCES**

The NSTO shall approve the issue of all parachuting licences.

#### **REQUIREMENTS**

- **A Licence**
  - At least 25 parachute descents.
  - Complete a PANAM Progression Programme.
  - Complete the Intermediate Skills Programme.
  - Have received instruction in packing a main parachute.
  - Pass the A Licence test as administered by the CI.
- **B Licence**
  - At least 75 free fall descents.
  - Hold a valid A Licence.
  - Prior to jumping non-student equipment:
    - have received an advanced canopy control briefing (logged)
    - have demonstrated safe, competent canopy control to the satisfaction of his CI (own spot)
  - Obtained Category III status in a recognised discipline.
  - Pass the B Licence test as administered by the CI.
- **C Licence**
  - 200 free fall descents.
  - Hold a valid B Licence.
  - One intentional night jump
  - A planned water jump briefing by his CI
  - Demonstrated his ability to his SO/CI to spot safely and competently
  - Have passed the C Licence test as administered by the CI.
  - Have complied with the C Licence minima in a recognised discipline.
- **D Licence**
  - 500 free fall descents.
  - Hold a valid C Licence.
  - Participated in the Namibian National Championships in a recognised discipline.
  - One night skydive with at least one other skydiver of the same discipline.
  - Successfully completed a PANAM-approved JM course or the D Licence written test.
  - Have complied with the D Licence minima in a recognised discipline.
  - Have attended a PANAM sanctioned Boogie.

### **2.2 CURRENCY REQUIREMENTS**

- 2.2.1 Currency or frequency of jumping is often a factor in incidents.
- 2.2.2 The CI/SO may request proof of currency from any other jumper before allowing him to manifest.

- 2.2.3 Any student who has not made a jump for a period of one month and not exceeding 3 months shall undergo full refresher training under supervision of an appropriately rated Instructor before being made to repeat the previously successfully completed task. Thereafter normal progression if appropriate.
- 2.2.4 A static line student who has not made a jump for a period exceeding three months shall undergo full first jump course training and then perform at least one no task static line jump before being allowed to progress normally.
- 2.2.5 A freefall progression student who has not yet passed the dive exit test, who has not made a jump in the preceding 3 months shall be required to: undergo full refresher training; one DRCP jump; 1 3sec delay and then the previously successfully completed task before being allowed to progress normally.
- 2.2.6 A freefall progression student who has passed the dive exit test, who has not made a jump in the preceding 3 months shall be required to: undergo full freefall refresher training; the 20sec dive exit jump; and then the previously successfully completed task before being allowed to progress normally.
- 2.2.7 An AFF student who has not made a jump for a period of one month and not exceeding 3 months shall be required to: undergo full refresher training under supervision of an appropriately rated Instructor; and then repeat the previously successfully completed task before being allowed to progress normally.
- 2.2.8 An AFF student who has not made a jump for a period exceeding 3 months shall be required to: undergo full refresher training under supervision of an appropriately rated Instructor and then: If last jump was level 1, 2 or 3 - repeat the previously successfully completed task before being allowed to progress normally. If last jump was level 4 - 10 perform a level 3 check-out jump; then repeat the previously successfully completed task before being allowed to progress normally.
- 2.2.9 An Intermediate jumper who has not made a jump for a period of one month and not exceeding 3 months shall undergo full freefall refresher training under supervision of an appropriately rated Instructor and then perform a stable delay of at least 20 seconds on familiar gear with practice touches. Opening should be minimum 4000ft.
- 2.2.10 An Intermediate jumper who has not made a jump for a period of 3 months and not exceeding 12 months shall undergo full freefall refresher training under supervision of an appropriately rated Instructor and then perform at least 1 jump with a FS Instructor. The jump should include a linked exit, body position check and 2 practice touches. Familiar gear. Opening should be minimum 4000ft.
- 2.2.11 An Intermediate jumper who has not made a jump for a period exceeding 12 months shall undergo full static line training under supervision of an appropriately rated Instructor and then perform at least 1 static line DRCP jump; one 5 second delay (AAD rig); one 20 second delay on familiar equipment with practice touches. Opening should be minimum 4000ft
- 2.2.12 As an alternative, the Intermediate described in 2.2.11 may get recurrent by: Undergoing full freefall refresher training; performing an AFF level 3 jump with 2 qualified, rated AFF Instructors. Then the last successfully completed category test before normal progression.
- 2.2.13 A CI/SO may require any other jumper who has become un-current due to inactivity to undergo retraining and make such jumps that CI/SO deems necessary for him to become current.
- 2.2.14 B, C and D licence holders must realise that extended periods of inactivity make them uncurrent. They should request the assistance of an Instructor in refreshing their drills and knowledge, and then perform appropriate re-currency jumps before continuing with normal activities.
- 2.2.15 A parachutist who is required to perform prescribed jumps in order to become current, shall where possible, perform such jumps on equipment with which he was familiar at the time immediately preceding the period of inactivity.
- 2.2.16 Only current AFF Instructors may be appointed to perform AFF style re-currency jumps. In this case appropriate AFF equipment shall be utilised.

## 2.3 RATINGS

The NSTO shall approve:

- the issue of all PANAM ratings, and
- all Instructor, Tandem and Parachute Technician certification courses.

Only holders of a current PANAM rating may perform such duties and/or jumps as required by that rating.

### 2.3.1 PRO

Parachutists holding a current Pro rating are certified as capable of safely and competently performing demonstration jumps.

#### **Qualifications**

- Successfully completed the certification requirements for a Pro rating as contained in Section 12, see form 3.
- Possess a PANAM C Licence.
- Have at least 300 jumps on a Ram-Air type canopy.
- For certification requirements, see Form 3.

#### **Renewal and Revalidation**

All Pro rating holders shall renew their ratings on an annual basis along with their PANAM membership renewal at year-end, using the official PANAM General Application Form.

The application for renewal shall be signed by the applicable CI/SO/SJO certifying that the renewal requirements have been met.

The requirements for renewal shall be:

- Within the previous 12 months the Pro holder must perform 50 jumps of which 5 must be successful Demonstration jumps.

#### **OR**

- Within the previous 12 months the Pro holder must perform 50 jumps of which 5 must be re-qualification jumps as required in the Initial Requirements contained in Section 12.
- A Pro rating having lapsed for more than two years the rating holder must redo all 10 qualifying jumps.
- If a Pro Rating holder's competence is questioned by a CI/SO or SJO, the Pro Rating holder may be required to reaffirm his proficiency.

### 2.3.2 JUMPMASTER

Parachutists holding a current JM rating are certified as capable of supervising students in the aircraft and supervising students on static line and free fall jumps. They may carry out DRCP briefings, FF progression briefings (first freefall with instructor supervision) and assist in training First Jumpers with the CI's approval. They may also conduct hand deploy briefings with CI's approval.

#### **Qualifications**

- Successfully completed a PANAM approved JM Course. See Jumpmasters manual Section 15.
- For Pre Course Requirements, see Form 7.

- Completed a post course apprenticeship of Jump Mastering ten (10) SL students under the CI's supervision.

### **Renewal and Revalidation**

All jumpmasters shall renew their ratings on an annual basis, along with their PANAM membership renewal at the year-end, using the official PANAM General Application Form.

The application for renewal shall be signed by the applicable CI, certifying that the renewal requirements have been met.

The requirements for renewal shall be:

- The JM shall have at least jump mastered ten (10) static line students, and five (5) free fall students in the previous six (6) months.
- Have attended a JM's seminar, run by his CI, within the last six (6) months.

A Jump Master rating shall lapse in the event of continued inactivity as interpreted by his CI.

In order to revalidate a lapsed rating, a Jump Master shall be required to undergo retraining by his CI and satisfy the said CI of his ability to safely supervise and dispatch a novice or student parachutist.

## **2.3.3 COACH**

Parachutists holding a current Coach rating are certified as capable of safely and competently coaching ISP graduates to Category III status in one or more disciplines. Ratings are discipline specific.

### **Qualifications**

A coach is defined as a person who:

- has a Category III in the relevant sub-discipline,
- holds a PANAM C or D licence,
- holds a current JM rating or has passed a JM course,
- must be approved by the CI,
- must be approved by the relevant sub-discipline.

For Coach Rating Requirements, see Form 19.

### **Renewal and Revalidation**

All coaches shall renew their ratings on an annual basis, along with their PANAM membership renewal at the year-end, using the official PANAM General Application Form.

The application for renewal shall be signed by the applicable CI, certifying that the renewal requirements have been met.

The requirements for renewal shall be:

Formation Skydiving:

- Have completed 10 FS Category II or Category III coaching jumps in the previous 12 months.
- Have done 50 FS jumps in the previous 12 months.
- Attendance of a FS sanctioned coaching seminar in the previous 12 months is highly recommended.



**Artistic Events:**

- Have performed at least 50 jumps in the previous 12 months of which 25 must be AE coaching jumps.
- Have performed the Category III evaluation jump with a current AE coach, respectively changing roles to prove ability as a coach and flying skill accordingly.
- Attendance of an AE sanctioned coaching seminar in the previous 12 months is highly recommended.

**Canopy Formation:**

- Have performed at least 10 Category jumps in the previous 12 months.
- Have performed at least 20 Canopy Formation jumps in the previous 12 months.
- Attendance of a CF sanctioned coaching seminar in the previous 12 months is highly recommended.

**Freefall Style and Accuracy Landing:**

- Have performed at least 10 Accuracy Landing jumps in the previous 12 months.
- Have performed at least 5 Freefall Style jumps in the previous 12 months.
- Have attended a SSA recognised judging seminar in Freefall Style, and in Accuracy Landing in the previous 24 months.

A Coach rating shall lapse in the event of continued inactivity as interpreted by his CI.

In order to revalidate a lapsed rating, a Coach shall be required to comply with the initial requirements as contained in Form 19.

**2.3.4 STATIC LINE (S/L) INSTRUCTOR**

Parachutists holding a current S/L Instructor rating are certified as capable of safely and competently instructing a S/L first jump course and certifying student progression. They may also conduct hand deploy and other briefings required by the CI.

**Qualifications**

- Successfully completed a PANAM authorised Instructors course.
- For Pre Course Requirements, see Form 8.
- After completion of the course, the candidate Instructor shall have served an "apprenticeship" under his CI's supervision, as laid down by the Course Director, before being awarded his rating.

**Renewal and Revalidation**

All Instructors shall renew their ratings on an annual basis, along with their PANAM membership renewal, at the year-end, using the official PANAM General Application Form

The application for renewal shall be signed by the CI, certifying that the renewal requirements have been met.

The requirements for renewal shall be:

- The Instructor shall have in the last six months:
  - instructed a complete SL first jump course. (At least two students)
  - trained and jump mastered at least one S/L student through first free fall
  - have attended an Instructor's seminar, run by the CI.

In order to revalidate a lapsed rating, a S/L Instructor shall be required to:

- assist a current S/L Instructor in the training of at least two first jump students to first jump status; and
- satisfy his CI of his ability to instruct both first jumpers and free fall students.

A S/L Instructor that has not instructed a first jump course during the past 2 years must be re-validated as required by a current PANAM S/L evaluator.

### 2.3.5 AFF INSTRUCTOR

Parachutists holding a current AFF Instructors rating are certified as capable of safely and competently instructing an AFF course and providing in-air instruction to student AFF parachutists. They may also conduct hand deploy and other briefings required by the CI.

#### **Qualifications**

- Successfully completed a PANAM authorised AFF Instructor's course.
- For pre-course requirements, see Form 9.
- After completion of the course, the candidate AFF Instructor shall have served an "apprenticeship" under an AFF CI, as laid down by the Course Director, before being awarded his rating.

#### **Renewal and Revalidation**

All AFF Instructors shall renew their ratings on an annual basis, along with their PANAM membership renewal, at the year-end, using the official PANAM General Application Form.

The application for renewal shall be signed by the AFF CI, certifying that the renewal requirements have been met.

The requirements for renewal shall be:

- The Instructor shall have in the last six months:
  - Instructed and trained at least one student through all 10 AFF levels (including jumping levels 1 to 7 twice, or 21 AFF jumps.)
  - Have attended an Instructor's seminar, run by the CI.

In order to revalidate a lapsed rating, an AFF Instructor shall be required to: assist a current AFF Instructor in the training of AFF first jump students from Level 1 to 10 status; and satisfy the CI of his ability to instruct First Jump and AFF students on progression.

An AFF Instructor that has not instructed a first jump AFF student/s, or having not done any AFF jumps, during the past 2 years must be re-validated as required by a current PANAM AFF evaluator.

### 2.3.6 TANDEM MASTER

Parachutists holding a current Tandem Master rating are certified as capable of safely and competently performing Tandem parachute jumps without supervision.

#### **Qualifications**

- Successfully completed a PANAM authorised Tandem Master training course.
- Have a minimum of 800 freefall jumps logged.
- Have a minimum of 8 hours freefall time.

- Have a minimum of 100 freefall jumps in the past year of which at least 50 must be in the past 4 months.
- Have a minimum of 3 years parachuting experience.
- Be a minimum of 21 years old.
- Hold a current PANAM JM rating.
- Hold a current PANAM D licence.
- Hold a valid Class 2 Medical
- For Pre Course requirements, see form 13.

### **Renewal and Revalidation**

All Tandem Masters shall renew their ratings on an annual basis, along with their PANAMDZO membership renewal, at the year-end, using the official PANAM General Application Form.

The application for renewal shall be signed by the CI / SO, certifying that the renewal requirements have been met.

The requirements for renewal shall be:

- The TM shall have met the relevant equipment manufacturer's requirements for renewal.

In order to revalidate a lapsed rating, a Tandem Master shall:

- Comply with the relevant manufacturer's requirements for revalidation.

### **2.3.7 EVALUATOR**

Parachutists holding a current evaluators' rating are certified as capable of safely and competently instructing and evaluating candidates for instructional ratings. The 3 classes of evaluator are: Instructor Evaluator (IE), AFF Evaluator (AFFE) and Tandem Evaluator (TE).

Before conducting a certification course, an Evaluator shall obtain NSTO approval.

#### **Qualifications (IE and AFFE)**

- Have held the appropriate instructor rating for the previous 5 years.
- Have acted as a Chief Instructor for at least 2 years of those 5 years.
- Have attended at least 1 full instructor certification courses as an observer.
- Have assisted on at least 1 full instructor certification course.
- Have attended at least 1 full instructor certification course as co-evaluator.
- Have personally run a full instructor certification course assisted by a current evaluator.
- Have passed the IE or AFFE written test.

#### **Qualifications (TE)**

- Be a current Tandem Master on the specified equipment.
- Have completed a minimum of 500 Tandem jumps with inexperienced passengers.

- Be appointed by the manufacturer as an Evaluator on the specified equipment.
- Be approved by the NSTO as a Tandem Evaluator for Namibia.

### **Renewal and Revalidation**

All Evaluators shall renew their ratings on an annual basis, along with their PANAM membership renewal, at the year-end, using the official PANAM General Application Form

The application for renewal shall be signed by the CI, certifying that the renewal requirements have been met.

The requirements for renewal shall be:

- The Evaluator shall have in the last year:
  - evaluated a complete certification course
  - be current in the appropriate rating.

In order to revalidate a lapsed rating, an Evaluator shall be required to satisfy a current evaluator of his competency.

### **2.3.8 PARACHUTE TECHNICIANS**

There are three distinct levels of Parachute Technician ratings, each with its own regulations, qualifications and restrictions associated with it.

#### **Qualifications**

- Successfully completed the certification requirements for a Parachute Technician as contained in Section 16.
- For certification pre-requirements, see Forms 10, 11 and 12.

#### **Renewal and Revalidation**

All Parachute Technicians shall renew their ratings on an annual basis along with their PANAM membership renewal at year-end, using the official PANAM General Application Form.

A PANAM Master or Senior Parachute Technician shall sign the application for renewal. He must inspect the applicant's logbook and certify that the renewal requirements have been met.

The requirements for renewal shall be:

#### **All**

- Have attended a Parachute Technician's seminar, run by a Master or Senior Parachute Technician, within the last 12 months.
- A Parachute Technician rating shall lapse in the event of continued inactivity.

#### **Reserve Packer (RP)**

- Shall have packed at least thirty-six reserves in the last twelve (12) months.

#### **Rigger - Senior (RS)**

- Shall have met the renewal and revalidation requirements for the RP rating.
- Shall have carried out twelve minor repairs in the preceding 12 months.

**Rigger - Master (RM)**

- Shall have met the renewal and revalidation requirements for the RS rating.
- Shall have carried out major repair work or have manufactured equipment in the last 6 months.

If, after an investigation by the NSTO of a written complaint, a Parachute Technician is found guilty of either misconduct or unsatisfactory workmanship, the NSTO may suspend or withdraw such rating. The holder may appeal to the executive of PANAM, who may review the specific case.

To revalidate a suspended, withdrawn or lapsed rating, the applicant may be required to do a trade test as specified by an appointed Parachute Technician Evaluator.

**2.3.9 FOREIGN & MILITARY RATING HOLDERS**

In order to obtain PANAM ratings holders of current foreign or military ratings shall proceed as follows:

- Meet all the PANAM requirements for the applicable rating.
- Produce satisfactory evidence of such currency. (to include paperwork, logbook, video etc.)
- Pass the appropriate theory test.

**Jumpmaster and Pro**

- Be evaluated by a current PANAM CI.

**With NSTO approval:****Static Line & AFF instructors**

- Attend a complete first jump course.
- Be evaluated by a current PANAM static line or AFF Evaluator.
- On a minimum of: 1 of the first jump course lectures, plus:
  - Static line: minimum one freefall briefing
  - AFF: minimum one full level briefing and one level 4 evaluation jump.

**Tandem**

- Be evaluated by a current PANAM Tandem Evaluator.
- In all procedures.
- On a minimum 1 tandem jump

**Parachute Technicians**

- Be evaluated by a PANAM Parachute Technician Evaluator.

**3 INTERMEDIATE SKILLS PROGRAMME (ISP)**

A Student Skydiver on completion of a PANAM freefall programme (graduate) must complete the ISP to obtain Cat I status before progressing on to Cat II and III within a chosen sub-discipline. (AE, FS, CF, S&A).

The ISP enables the graduate skydiver to practice the basic freefall skills learnt on progression and reinforce safety skills with another skydiver but in a controlled environment. In addition, every jump includes pre-briefed canopy skills exercises.

The programme can be completed prior to converting from student freefall equipment or after the mandated hand-deploy pilot chute conversion jumps. Downsizing of canopies or changing deployment systems must not be done whilst on the ISP, but rather on solo jumps following the recommended procedures.

The graduate skydiver must satisfy intermediate currency to progress through the ISP.

Coaches used for the ISP must be cleared by the CI/SO.

Refer to Section 5 of this manual for this programme.

## **4 SPORT SKYDIVING SUB-DISCIPLINES**

There are four internationally recognised sub-disciplines in sport skydiving, Formation Skydiving (FS), Artistic Events (AE), Canopy Formation (CF) and Freefall Style and Accuracy Landing (S&A). A jumper, having completed the ISP, may participate in one or more of these sub-disciplines in accordance with the relevant requirements.

### **4.1 FORMATION SKYDIVING (FS)**

- 4.1.1 Formation Skydiving may commence from a minimum altitude of 4500ft AGL with a minimum break off altitude of 3500ft AGL.
- 4.1.2 All parachutists taking part in formation skydiving will be graded in accordance with FS categories listed below, and shall practice the discipline in accordance with the restrictions imposed on each of the different categories.
- 4.1.3 **CATEGORY I**
  - Shall have completed the Intermediate Skills Programme.
  - There may be no more than two skydivers from this category on any one jump.
  - In a 2-way formation a CAT I skydiver may jump with any other Category skydiver or a cameraperson approved by the CI.
  - In a 3-way or larger formation, there may no more than two CAT I + one CAT II **or** one CAT I + two CAT II skydivers on any one jump.
- 4.1.4 **CATEGORY II**
  - Shall have completed the CAT II training programme as laid down in Section 6.
  - There may not be more than three CAT II skydivers on any one jump with the exception of a jump including one or more CAT I skydivers as detailed under Category I above.
- 4.1.5 **CATEGORY III**
  - Shall have completed the CAT III ability test as laid down in Section 6.
  - Is cleared to jump with other approved formation skydivers within appropriate safety margins.
  - Is cleared to jump with CAT I and II with CI permission.
- 4.1.6 Progression between categories may only occur with the approval of a CI, and shall be logged by the intermediate skydiver, and signed by the coach.

### **4.2 ARTISTIC EVENTS (AE) (Includes: freefly, freestyle, sky surfing etc)**

- 4.2.1 Artistic events may commence from a minimum altitude of 5000ft AGL with a minimum-break off altitude of 4500ft AGL.
- 4.2.2 All parachutists taking part in Artistic Events will be graded in accordance with the AE categories listed below, and shall practice the discipline in accordance with the restrictions imposed on each of the different categories.

- 4.2.3 **CATEGORY I**
- Shall have completed the Intermediate Skills Programme.
  - May only jump with one other CAT III AE Skydiver or with a cameraperson approved by the CI.
- 4.2.4 **CATEGORY II**
- Shall have completed the CAT II training programme as laid down in Section 7.
  - He may not jump with Category I AE Skydivers.
  - There may not be more than two skydivers from this category on any one jump.
- 4.2.5 **CATEGORY III**
- Shall have completed the CAT III ability test as laid down in Section 7.
  - Is cleared to jump with other approved AE skydivers within appropriate safety margins.
  - Is cleared to jump with CAT II and I with CI permission.
- 4.2.6 Progression between categories may only occur with the approval of a CI, and shall be logged by the intermediate skydiver, and signed by the coach.
- 4.2.7 Skysurfers must follow skysurfing programme as per AE sub-section (Section 7). Skyboards to carry NSTO approval.
- 4.2.8 All skydivers participating in AE must wear both a functioning altimeter and at least one audible altimeter.

#### **4.3 CANOPY FORMATION (CF)**

- 4.3.1 A parachutist shall only participate in CF once he has been cleared to do so by his CI, in accordance with the categories as laid down in these requirements. The clearance shall be logged and signed by the CI.
- 4.3.2 Parachutists shall not dock on, or transition formations below 1500ft AGL.
- 4.3.3 A down plane (or similar formation) shall be performed only by CF CAT II jumpers, and shall be broken by at least 500ft AGL.
- 4.3.4 All parachutists participating in CF shall be graded according to the following categories, and shall practice the discipline in accordance with the restrictions imposed on each of the different categories.
- 4.3.5 **CATEGORY I**
- Shall have completed the Intermediate Skills Programme.
  - May only jump with one other CAT III CF skydiver or with a cameraperson approved by the CI.
- 4.3.6 **CATEGORY II**
- Shall have completed the CAT II training programme as laid down in Section 8.
  - He may not jump at all with Category I CF skydivers.
  - There may not be more than two skydivers from this category on any one jump.
- 4.3.7 **CATEGORY III**
- Shall have completed the CAT III ability test as laid down in Section 8.
  - Is cleared to jump with other approved CF skydivers within appropriate safety margins.
  - Is cleared to jump with CAT II and I with CI permission.
- 4.3.8 Progression between categories may only occur with the approval of a CI, and shall be logged by the intermediate skydiver, and signed by the CI.

#### **4.4 FREEFALL STYLE AND ACCURACY LANDING (S&A)**

- 4.4.1 A parachutist shall only participate in S&A once he has been cleared to do so by his CI, in accordance with the categories as laid down in these requirements. The clearance shall be logged and signed by the CI.
- 4.4.2 All parachutists participating in S&A shall be graded according to the following categories.
- 4.4.3 **CATEGORY I**
  - Shall have completed the Intermediate Skills Programme.
- 4.4.4 **CATEGORY II**
  - Shall have completed the CAT II training programme as laid down in Section 9.
- 4.4.5 **CATEGORY III**
  - Shall have completed the CAT III ability test as laid down in Section 9.
- 4.4.6 Progression between categories may only occur with the approval of a CI, and shall be logged by the intermediate skydiver, and signed by the CI.

### **5 CAMERAPERSONS**

Camerapersons not yet in possession of a B licence shall have their helmets approved by the CI / SO.

Camerapersons must wear a functioning altimeter, a functioning audible altimeter and a hook knife.

Camerapersons must be au-fait with an appropriate camera cutaway procedure.

There are three recognised groups of camera work each with it's own specific minimum requirements:

#### **5.1 BASIC CAMERA – a single camera used or worn to film from within a skydive**

Minimum requirements:

- Category II in any one of FS, AE or S&A
- must have the signed approval of the CI / SO

#### **5.2 THIRD-EYE CAMERA – a single camera used or worn to film from an outside perspective**

Minimum requirements:

- to film FS is Category III in FS or AE
- to film AE is Category III in AE
- to film CF is Category III in CF
- to film S&A is Category III in FS or AE
- must have the signed approval of the CI / SO

#### **5.3 SPECIALISED CAMERA (AFF AND TANDEM CAMERA) – a camera used or worn to film AFF or tandem or if more than 1 camera is worn at any one time**

Minimum requirements:

- Category III in FS or AE
- a minimum of 500 formation jumps (100 in the last year) or 100 Third-Eye camera jumps (50 in the last year)
- must have the signed approval of the CI / SO and the approval of relevant AI / TM



## **6 TANDEM PARACHUTING**

- All tandem equipment shall be fitted with a serviceable Automatic Activation Device (AAD).
- Tandem Masters must wear a functioning altimeter on all tandem jumps.
- All Tandem Masters (TM or TE) shall log their Tandem jumps.
- Minimum altitudes:
  - Normal exit - 4 500ft AGL
  - Main deployment - 4 500ft AGL
  - Emergency exit - 1 500ft AGL(Altitudes may vary from system to system due to manufacturers' specifications and AADs.)
- Only a Tandem Master holding a valid manufacturer's rating on a particular Tandem system may jump with a passenger on that system. (A candidate on a validation/certification/recertification course is the obvious exception).
- The passenger shall be at least 21 years of age, or 16 years of age written parental permission required before the jump. For passengers under 16 years of age, PANAM Tandem Evaluator permission is required in addition.
- Any Tandem activity must be authorised by the CI.
- Canopy Formation, head down, night jumps and intentional water jumps are expressly prohibited in Tandem parachuting.

## **7 DEMONSTRATION JUMPS**

- All demonstration jumps shall be cleared by the appropriate CI/SO or SJO prior to the jump taking place.
- A current Pro Rating is required to participate in demonstration jumps.
- The canopy used by a Pro rating holder during any demonstration jump may not be smaller than the smallest sized canopy on which at least 5 qualifying jumps were done.
- Information for demonstration (Pro) jumps has been included in Section 12 of this manual.

## **8 EXTRAORDINARY PARACHUTING ACTIVITIES**

Extraordinary parachuting activities, as listed below, may only take place with the prior approval of the CI concerned.

- Night jumps
- Intentional water jumps

NSTO permission is required for:

- Intentional cutaways
- High altitude jumps

Extraordinary activities shall be conducted in accordance with the specific requirements as laid down in Section 13.

**8.1 NIGHT JUMPS**

- 8.1.1 May be performed by holders of a B Licence or higher.
- 8.1.2 All parachutists must wear a functioning, illuminated altimeter.
- 8.1.3 All altitude minima shall be raised by 1000ft.
- 8.1.4 No person shall attempt a jump at night that he has not previously accomplished during the day.
- 8.1.5 Unless an intentional night jump has been planned, all parachutists must be on the ground at last light.

**8.2 INTENTIONAL WATER JUMPS**

- 8.2.1 May be performed by holders of a B Licence or higher.
- 8.2.2 All parachutists shall wear functional flotation equipment.
- 8.2.3 Parachutists engaged in water jumps shall use equipment with which they are familiar.

**8.3 INTENTIONAL CUT-AWAY**

- 8.3.1 A reserve parachute shall be worn as a tertiary (on a separate harness if necessary).

**9 WING SUITS**

Information for wing suits has been included in Section 14 of this manual.

**10 JUMP PILOTS**

Information for jump pilots has been included in Section 18 of this manual.

**10.1 JUMP PILOT "RATING"**

All pilots flying parachutists shall have written and passed a jump pilots test as administered by the NSTO.