



*Fédération
Aéronautique
Internationale*

Competition Rules

For
Artistic Events

2016 Edition
Effective 1st March 2016

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¹ FAI Statutes, Chapter 1, para. 1.6

² FAI Sporting Code, General Section, Chapter 3, para 3.1.3.

³ FAI Statutes, Chapter 1, para 1.8.1

⁴ FAI Statutes, Chapter 2, para 2.1.1

⁵ FAI Bylaws, Chapter 1, para 1.2.1

⁶ FAI Sporting Code, General Section, Chapter 3, para 3.4

⁷ FAI Bylaws, Chapter 1, para 1.2.3

⁸ FAI Statutes, Chapter 5, para 5.2

⁹ FAI Sporting Code, General Section, Chapter 3, para 3.1.7

¹⁰ FAI Sporting Code, General Section, Chapter 1, paras 1.2. and 1.4

¹¹ FAI Statutes, Chapter 5, para 5.2.3.3.7

¹² FAI Bylaws, Chapter 1, para 1.2.2

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This document takes effect on the 1st of March 2016.

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1. FAI Authority

- 1.1. The competition will be conducted under the authority granted by the FAI, according to the regulations of the Sporting Code of the FAI, General Section, and Section 5 as approved by the IPC and validated by the FAI, and these rules. All participants accept these rules and the FAI regulations as binding by registering in the competition.

2. Definitions of Words and Phrases used in these Rules

- 2.1. Team: a Freestyle Skydiving Team is composed of a Performer and a Videographer. A Freeflying Team is composed of two (2) Performers and a Videographer.
- 2.2. Heading: the direction in which the front of the torso of the Performer faces.
- 2.3. Move: a change in body position, and/or a rotation around one or more of the three (3) body axes, or a static pose. See Addendum B.
- 2.4. Grips and docks.
- 2.4.1. Grip: a recognisable stationary contact of the hand(s) of one Performer on a specified part of the body of the other Performer, performed in a controlled manner.
- 2.4.2. Dock: a recognisable stationary contact of the foot (feet) of one Performer on a specified part of the body of the other Performer, performed in a controlled manner.
- 2.5. Routine: a sequence of moves performed during the working time.
- 2.5.1. Compulsory routine: a routine composed of compulsory sequences and moves chosen by the Team.
- 2.5.2. Free routine: a routine composed of moves chosen entirely by the Team.
- 2.6. Working time: the period of time during which Teams may perform a routine during a jump. Working time starts the instant any Team Member separates from the aircraft, as determined by the Judges, and terminates 45 seconds later.

3. The events

- 3.1. Discipline: the discipline comprises Freestyle Skydiving and Freeflying. There is no gender separation.
- 3.2. Objective of the events: the objective for the Team is to record a sequence of moves in freefall with the highest possible merit.
- 3.3. Exit altitude: 13,000 feet (3,960 m.) AGL.
- 3.4. World Champions:
- 3.4.1. After all completed round(s), World Champions in Freestyle Skydiving and in Freeflying, will be declared.
- 3.4.2. The Freestyle Skydiving World Champions and the Freeflying World Champions are the Teams with the highest total score for all completed rounds. If two (2) or more Teams have equal scores, then if time permits, the first three (3) places will be determined by a tie-break Free Round. If a tie still exists, the procedure as in para. 5.5.3. will apply (including all completed free rounds) until a clear placing is determined.
- 3.4.3. Prizes and awards are awarded as follows:
- All Team Members in the events will be awarded medals if placed First, Second or Third.
 - The flags of the countries of the Teams in the events placed First, Second and Third shall be flown and the national anthems of the countries of the Teams placed First shall be played.

4. General rules

- 4.1. Exit procedure: There are no limitations on the exit other than those imposed by the Chief Pilot for safety reasons.
- 4.2. Jump order: The jump order for the first competition round of each event will be in the reverse order of the placings in that event at the most recent IPC sanctioned World Parachuting Championships or World Cup of Artistic Events. All teams not covered by this procedure will jump at the beginning of the round, with their jump order determined by a draw. After round five (5) the final rounds will start. The final rounds will be executed by an updated reverse-order-of-jumping which shall be implemented after round five (5) and six (6).

- The relevant jump order will be maintained throughout the competition, except for any logistical changes deemed necessary by the Chief Judge and the Meet Director.
- 4.3.** Jump abortion: The Team may choose to abort a jump for any pertinent reason and may descend with the aircraft. If a jump-run is aborted and the Meet Director decides the reason is pertinent, the jump must then be made at the earliest opportunity. (Sporting Code, para 5.2.8.)
- 4.4.** Air-to-air video recording:
- 4.4.1.** The Videographer shall provide the video evidence required to judge each jump and to show the Team's performance to third parties. It is the responsibility of the Videographer to show start of working time.
- 4.4.2.** A Video Controller will be appointed by the organiser, and approved by the Chief Judge prior to the start of the official training jumps. Prior to the competition beginning, the Video Controller may inspect a Team's freefall video equipment to verify that it meets the performance requirements as determined by him/her. Inspections that do not interfere with a Team's performance may be made at any time during the competition, as determined by the Chief Judge. If any freefall video equipment does not meet the performance requirements as determined by the Video Controller, this equipment will be deemed to be unusable for the competition.
- 4.4.3.** For the purpose of these rules, "freefall video equipment" shall consist of the complete video system used to record the video evidence of the Team's freefall performance, including the camera(s), recording media, cables and battery. The freefall video equipment must be able to deliver a High Definition 1080 type digital signal with a minimum frame rate of 25 frames per second through memory card (minimum class 10), approved by the Video Controller.
- 4.4.4.** The Videographer is responsible for assuring the compatibility of the freefall video equipment with the scoring system.
- 4.4.5.** The camera(s) must be fixed static to the helmet. No roll, pitch or yaw movements of the camera(s), mechanical and/or digital zoom adjustment, or any digital effects (excluding "steady shot" or other image stabilization feature) may be used during competition jumps. Failure to meet any of these requirements will lead to a score of zero (0) points.
- 4.4.6.** As soon as possible after each jump is completed, the Videographer must deliver the freefall video equipment (including the recording media used to record that jump) for dubbing at the designated dubbing station. The video evidence must remain available for viewing or dubbing until all scores are posted as final.
- 4.4.7.** Video Review Panel (VRP). A VRP will be established prior to the start of the official Training Jumps, consisting of the Chief Judge, the President of the Jury, and the FAI Controller. The VRP may enlist the help of the Video Controller. Decisions rendered by the VRP shall be final and shall not be subject to protest or review by the Jury.
- 4.4.8.** The Videographer must record, just before exit, the means inside the airplane with the relevant round number and date. The recording should continue with the jump without a stop in recording. Failure to meet this requirement will lead to a score of zero (0) points.
- 4.4.9.** The Organizer must provide the Teams with a way of identification of the Team, showing the team number to be recorded by the Videographer just before exit. The recording should continue with the jump without a stop in recording.
- 4.5.** Rejumps:
- 4.5.1.** In a situation where the video evidence is considered insufficient for judging purposes by a majority of the Judging Panel, the freefall video equipment will be handed directly to the VRP for assessing the conditions and circumstances of that occurrence. In this case, a rejump situation will be handled as follows;
- 4.5.1.1.** In the case the VRP determines that there has been an intentional abuse of the rules by the Team, no rejump will be granted and the Team's score for that jump will be zero (0).
- 4.5.1.2.** In the case the VRP determines that the video's evidence insufficiency is due to weather conditions or any other cause not controllable by the Team, a rejump will be given.
- 4.5.1.3.** In the case the VRP determines that the video's evidence insufficiency is due to a factor that could be controlled by the Team, no rejump will be granted and the Team will receive a score based on the video evidence available.
- 4.5.2.** Contact or other means of interference between (a) Performer(s) and/or the Videographer in a Team shall not be grounds for a rejump.
- 4.5.3.** Problems with a competitor's equipment (excluding freefall video equipment) shall not be grounds for a rejump.
- 4.5.4.** Adverse weather conditions during a jump are no grounds for protest. However, a rejump may be granted at the discretion of the Chief Judge.

- *Creativity*: Routine composition is original with new moves, original choreography and/or new presentation of old moves. Routine has a nice flow with a definite beginning and a definite ending and full use of working time. Routine is aesthetically pleasing to watch throughout, with/without dynamic variety.
- *Camera Work*: Good use of video angle(s), creative interactivity and/or lighting to enhance vision. Clean image and clear focus shown. Steadiness and accuracy of video framing. No parts of the Videographer's camera helmet/equipment/body parts unintentionally showing in the frame.

- 6.3.** Scoring Compulsory Routines: Judges give a score for the Team (between 0,0 and 10,0, up to one decimal point) for Presentation (as per Free Routine) and for each of the four (4) Compulsory Sequences using the following guidelines:

10 points	Move is performed and filmed flawlessly with no noticeable mistakes.
8 points	Move is performed or filmed with some small mistakes.
5 points	Move is performed and filmed with several medium mistakes.
3 points	Move is performed and filmed with one or several major mistakes.
0 points	Move not performed or identifiable or unjudgeable camera image.

See the Addenda A for Guidelines on scoring for common mistakes on some Compulsory Sequences.

Small mistake examples

- Move: finish slightly off heading, slight wobble, etc.
- Camera: momentary loss of framing or focus, occasional minor distance errors, etc.

Medium mistake examples

- Move: significantly off heading, wobble, not enough rotation, etc.
- Move: required elements performed incorrect, turning the wrong direction, etc.
- Move (Freestyle Skydiving): toes not pointed, knees bent.
- Camera: momentary loss of image, framing, focus, or distance errors for about 20 % or more of the Compulsory Sequence, etc.

Major mistake examples

- Move: completely missing required elements or performed so poorly that move is barely recognizable.
- Camera: unjudgeable picture for about 50% or more of the Compulsory Sequence, etc.

Presentation in the Compulsory Routines is scored for the beginning and the end of the routine, and move(s) performed between the Compulsory Sequences. If the Judges cannot identify any Presentation element the score for presentation will be 0,0 points.

- 6.3.1.** The Judges will only score the Compulsory Sequences they recognize. If an attempt is made for a Compulsory Sequence and the Judges recognize this as such, scoring for that sequence will commence. The judging of each sequence begins when the Judges see the Team beginning the sequence from the described beginning position (after a transition from the previous move with or without a momentary stop).

The judging of each sequence ends when the Judges see the Team completes or abandons the performance requirements of that sequence.

- 6.4.** Score calculation: The score for each round is calculated as follows:

- **Compulsory Rounds:** the highest and lowest Judges' scores of each Compulsory Sequence and Presentation will be discarded, and then the remaining three (3) scores will be averaged with no rounding applied. The average scores will be added, and the result will be divided by five (5), then rounded to the first decimal place.
- **Free Rounds:** the highest and lowest Judges' scores of the Technical and Presentation criteria will be discarded, the remaining three (3) scores of both Technical and Presentation will be averaged separately with no rounding applied. The average scores will be added, and the result will be divided by two (2), then rounded to the first decimal place.

- 6.4.1.** Rounding must be done as follows: intermediate values must be converted from two decimal places to one, by rounding to the nearest tenth, except where the second decimal digit is exactly halfway between the two values, where it must be rounded to the higher of the two.
- 6.4.2.** Total scores for the events are calculated by adding the Team's official scores of all completed rounds.
- 6.4.3.** All scores for each Judge will be published.
- 6.5.** Judging rules:
- 6.5.1.** The jumps shall be judged using the video evidence as provided by the Videographer.
- 6.5.2.** A panel consisting of five (5) Judges must evaluate each Team's performance. Where possible a complete round shall be judged by the same panel.
- 6.5.2.1.** Compulsory Routines: all five (5) Judges will evaluate the routines.
- 6.5.2.2.** Free Routines: all five (5) Judges will evaluate the Technical and the Presentation criteria.
- 6.5.3.** The Judges will watch each jump once with a second viewing optional. The Judges must watch round 1 one (1) time, for all Teams. Then, they watch each jump of round 1 a second time (with an optional third view, at the discretion of the Event Judge) to produce a score. At the discretion of the Event Judge, a third view of a Compulsory Round jump, or part of it, is allowed, in normal or reduced speed (70%-90%).
- 6.5.4.** The Judges will use the electronic scoring system to record the evaluation of the performance. At the end of working time, freeze frame will be applied on each viewing, based on the timing taken from the first viewing only. The Judges may correct their evaluation record after the jump has been judged. Corrections to the evaluation record can only be made before the Chief Judge signs the score sheet.
- 6.5.5.** The chronometer will be operated by the Judges or by (a) person(s) appointed by the Chief Judge, and will be started when a Team Member leaves the aircraft. If Judges cannot determine the start of the working time, the following procedure will be followed. Working time will start as the Videographer separates from the aircraft and a penalty equal to 20% (rounded down) of the score for that jump will be deducted from the score for that jump.
- 6.6.** Training jumps:
- 6.6.1.** Each Team in each event will be given the option of two (2) official training jumps prior to the competition. The aircraft type and configuration plus the judging and scoring systems to be used in the competition will be used for the official training jumps.
- 6.6.2.** Before the start of the training jumps, the Team Captain has the option to explain the delivered Free Routine description sheet(s). If, for weather reasons, no training jumps are possible, Teams can deliver a maximum of two (2) previous training jumps for scoring and move explanation. For (previous and official) training jumps, no scores for Presentation will be given.

7. Rules specific to the competition

- 7.1.** Composition of Delegations: Each Delegation may be comprised of:
- One (1) Head of Delegation
 - One (1) Team Manager
 - A maximum of two (2) Teams for each event for a WPC or Continental Championship.
 - The number of Teams for a World Cup will be up to the organiser.
- 7.2.** Competition schedule: The competition will be organised in accordance with one (1) official training day and a maximum time frame of four (4) consecutive competition days. Time must be reserved before the end of the competition to allow for the completion of the final rounds.

ADDENDA A1, A2, B, C, D

- Addendum A1: Freestyle Skydiving Compulsory Sequences
- Addendum A2: Freeflying Compulsory Sequences
- Addendum B: Basic body positions, orientations and rotations
- Addendum C: Difficulty
- Addendum D: Routine description

ADDENDUM – A1

FREESTYLE SKYDIVING COMPULSORY SEQUENCES PERFORMANCE REQUIREMENTS & JUDGEMENT CRITERIA

- The order in which these Compulsory Sequences can be performed is determined by the Team.
- The Team is requested to submit the order of the Compulsory Sequences at the start of the competition to the Chief Judge. (see para 5.2.3. and addendum D)
- Each Team must ensure that clothing and/or the camera do not hinder the ability for Judges to clearly see the performance requirements being met. (E.g. if Judges cannot see straight arms and/or legs then they may assume that the Performer does not have straight arms and/or legs).
- Toes must be pointed and knees must be straight, except as noted in descriptions. Otherwise, the maximum possible score for the Compulsory Sequence is 8,0.
- The judging of each sequence begins when the Judges see the Team beginning the sequence from the described beginning position (after a transition from the previous move with or without a momentary stop).
- The judging of each sequence ends when the Judges see the Team completes or abandons the performance requirements of that sequence.
- The Videographer must maintain proximity to the Performer throughout each Compulsory Sequence, except where the Sequence description specifically prescribes otherwise.

FIRST COMPULSORY ROUND (ROUND 2)

FR-1 Open Stag Sequence

Open Stag Half Front Loop

- Beginning is an open stag position in head-up orientation, without any bend at the waist.
- A half front loop must be performed
- The open stag position, without any bend at the waist, must be maintained during the half front loop.
- Loop must be around a horizontal axis, without wobbling and without changing heading.
- Loop must be smooth.

Head-down Open Stag Pirouette

- After a momentary stop, a head-down open stag 360° pirouette must be performed.
- The open stag position must be maintained, without any bend at the waist, during the 360° pirouette.
- The sequence must end in an open stag position in head-down orientation.

Videographer requirements

- At the beginning, Videographer must show the Performer from the side, on the same level and stay in place during the half loop.
- Videographer must make a synchronised carve around the performer in the opposite direction, while the 360° pirouette is performed.
- Videographer must be on the same level as the Performer throughout the sequence.
- The sequence must end on the same side of the performer.

Judging guidelines

- When the Videographer make a synchronised carve to the same direction, the maximum score will be 5,0
- When the Videographer does not make a synchronised carve, the maximum score will be 3,0.

FR-2. Double Eouzan

Double Eouzan

- Beginning is a split position (at least 90° between the legs) in head-down orientation.
- Two (2) full 360° back loops must be performed; the split position must be maintained during the loops.
- Loops must be around a horizontal axis, without wobbling and without changing heading.
- Loops must be smooth, without stopping.
- The sequence must end in a split position in head-down orientation.

Videographer requirements

- During the Performer's first loop, the image must be upright with the sky in the upper portion of the frame.
- Videographer must show Performer from his/her side at the beginning of the sequence and must remain in place throughout the sequence.
- Videographer must be on the same level as the Performer throughout the sequence.
- Videographer must make a synchronised roll with the Performer during his/her second loop, showing an image as if the Performer remains static with only the background moving.

Judging guidelines

- When the Videographer makes a synchronised roll with the Performer during his/her first loop instead of the second loop, the maximum score will be 5,0.
- When the Videographer does not make a synchronised roll, the maximum score will be 3,0.

FR-3. Straddle Loops Sequence

Back Layout Half Loop

- Beginning shall be from the straddle position in a head-up orientation facing the Videographer.
- One complete 180° layout back loop must be performed.
- Half loop must be about a horizontal axis, without tilting or changing the heading.
- Looping motion must be smooth.
- Torso must be straight and legs in line with torso, without any bend at the waist.
- A momentary stop in a head-down orientation in the straddle position must follow the half loop, without changing heading.

Back Layout One and Half Loop

- After the momentary stop, one and half (540°) layout back loop rotation must be performed.
- One and half loop must be about the same horizontal axis as the first half loop, without tilting or changing the heading.
- Looping motion must be smooth.
- Torso must be straight and legs in line with torso, without any bend at the waist.
- The sequence must end in the straddle position in a head-up orientation, facing the Videographer.

Videographer requirements

- Videographer must show Performer from his/her front at the beginning of the sequence and must remain in place and on the same level as the Performer throughout the sequence.

FR-4. Full Eagle Trick Sequence

Full Eagle

- At the beginning, the Performer is in a head-down orientation.
- Legs must be in line with the torso (when viewed from the side).
- The Performer goes below the Videographer as the Videographer goes over the top, moving around an imaginary centre between them so that both end up in opposite positions and orientations than they originally began. The movement continues until the Performer and the Videographer end up in their relative beginning positions.
- The Performer must perform a tight tuck front loop (trick) in the middle of the second part of the Eagle (when he/she is above the Videographer).
- The Full Eagle should be performed as one continuous movement.
- The Full Eagle must remain on the same heading.

Videographer requirements

- Videographer must show Performer from his/her front during the whole sequence, with the exception of the full tight tuck front loop.

Judging guidelines

- When no trick is performed, the maximum score will be 6,0.

SECOND COMPULSORY ROUND (ROUND 5)

FR-5. Head Up Straddle Spins

Straddle Position

- Performer is in straddle position, without any bend at the waist, in head-up orientation.
- The straddle must spin rapidly, with three and a half (3,5) pirouette rotations performed within five (5) seconds from the start of the first rotation.
- Spins can be in either direction.

Videographer Requirements

- At the beginning, the Videographer must be on the same level and show the front of the Performer.
- Synchronous with the Performers' rotations, the Videographer must perform a half Eagle passing under the Performer with half (180°) camera roll at the lowest point, the roll in the opposite direction as the Performer's rotation.
- At the end, the Videographer must be on the same level and show the front of the Performer.

Judging guidelines

- When the Videographer passing under the Performer makes the camera roll to the wrong direction, the maximum score will be 5,0.

FR-6. Angle Sequence

THIS COMPULSORY SEQUENCE MUST **NOT** BE THE FIRST ONE PERFORMED!

- Performer is in approximately 45° diagonal orientation with the head low.
- At the beginning, Performer is facing upward.
- The Performer must be in a layout position, without any bend at the waist, throughout the sequence.
- The Performer will make a 180° rotation on the Body Head-Tail axis while maintaining an approximately 45° diagonal orientation.
- The Performer must end facing downward.

Videographer requirements

- At the beginning and the end, the Videographer must show the horizon at an approximately 45° diagonal angle.
- Videographer must show Performer from his/her side throughout the sequence.
- Videographer must carve over Performer during the 180° rotation.
- Videographer must show an image as if the Performer remains static with only the background moving.
- Videographer must maintain a direct side view of the Performer, demonstrating an on-level position with respect to the approximately 45° diagonal orientation.

Judging guidelines

- When this Compulsory Sequence is performed first in the compulsory routine, the maximum score will be 3,0.

FR-7. Head-down Loop Twist Sequence

Back Layout Loop

- Beginning is from a layout position in head-down orientation.
- Three (3) complete 360° layout back loop rotations, without stopping, must be performed.
- A full twist must be performed within and evenly executed throughout the second loop.
- Looping movement must remain about a horizontal axis, without tilting or changing heading.
- Torso must be straight and legs in line with torso, without any bend at the waist.
- Looping motion must be smooth.
- The sequence must end in a layout position in head-down orientation, on the same heading as the beginning.

Videographer requirements

- The image must be upright with the sky in the upper portion of the frame.
- Videographer must be on the same level with the Performer and show the Performer from his/her side at start of the sequence, must remain in place, and must show the same side of the Performer at the end of the sequence.

Judging guidelines

- When no twist is made, the maximum score for each good loop performed will be 1,0 (up to a maximum of 3,0 total).
- If a half twist is performed, (last loop is forward instead of backwards), the maximum score will be 5,0 (assuming on heading and clean loops performed).

FR-8 Flip Throughs

Three (3) Flip Throughs

- At the beginning, the Performer is in belly-down orientation.
- For a complete Flip Through, torso must roll through 360° while simultaneously turning through 360° horizontally.
- The torso must be belly-down at the start of the rotation, on its side when 90 ° of the turn is complete, on its back when 180° of the turn is complete, and on the other side when 270° of the turn is complete.
- Legs must remain together and straight.
- There must be at least an 160° angle between the front of the torso and the thighs throughout the sequence.
- The face must remain facing the Videographer (Performer looking into the camera lens) and maintain the same direction throughout all the rotations.
- Three (3) complete rotations, without stopping, must be performed.

Videographer requirements

- The image must be upright with the sky in the upper portion of the frame.
- Videographer must stay on the same level, remain in place and show the Performer from the front.

ADDENDUM – A2

FREEFLYING COMPULSORY SEQUENCES PERFORMANCE REQUIREMENTS & JUDGEMENT CRITERIA

- The order in which these Compulsory Sequences can be performed is determined by the Team.
- The Team is requested to submit the order of the Compulsory Sequences at the start of the competition to the Chief Judge. (see para 5.2.3. and addendum D)
- The face to face requirement means that the Performers must be with their heads at the same level and looking at each other.
- Being on the same level means that the centres of the bodies are at the same level.
- The judging of each sequence begins when the Judges see the Team beginning the sequence from the described beginning position (after a transition from the previous move with or without a momentary stop).
- The judging of each sequence ends when the Judges see the Team completes or abandons the performance requirements of that sequence.
- The Videographer must maintain a consistent distance from the Performers' centre point throughout each Compulsory Sequence, except where the Sequence description specifically prescribes otherwise.

FIRST COMPULSORY ROUND (ROUND 2)

FF-1. Double Joker Reverse

Double Joker

- One Performer is in a head-up orientation, the other in a head-down orientation, face to face.
- A right hand-to-right hand (or left hand-to-left hand) grip is taken and must be maintained during the entire sequence.
- The formation is rotated 180° over the top, i.e. the head-up Performer moves directly over the other Performer into a head-down orientation. At the same time, the head-down Performer moves directly underneath into a head-up orientation. (No sideways rotation is allowed.) This 180° rotation must be continuous.
- The Performers end in the opposite orientations and on the opposite heading.
- After this 180° rotation (the stop in between is only momentary), the formation is rotated in the reverse direction, (180° over the top) until the Performers end on the original heading in their original orientations.

Videographer requirements

- At the beginning the Videographer must show the Performers from the side.
- The Videographer must make a synchronized roll with the Performers, showing an image as if the Performers remain static with only the background moving.
- The Videographer must be on the same level with the Performers' centre point.

Judging guidelines

- Wrong grip location (not right-to-right hand or left-to-left hand), the maximum score will be 7,0.
- Wrong grip is not hand-to-hand, the maximum score will be 7,0.
- When the Videographer makes the roll in the wrong direction, the maximum score will be 5,0.
- When the Videographer does not make a synchronised roll, the maximum score will be 3,0.

FF-2. Vertical Compressed Switch

Vertical Compressed

- One Performer is in head-up orientation, the other Performer in head-down orientation, side by side, on the same level and heading.
- The right hand of each Performer must be on the right lower leg of the other Performer (or left hand on left lower leg).
- Both Performers release their grip at the same time.
- Both performers simultaneously perform a half front loop.

- Both Performers retake both grips at the same time.

Videographer requirements

- At the beginning, the Videographer must be in front of both Performers.
- Videographer must stay on the same level as the Performers' centre point and remain in place throughout the sequence.

Judging guidelines

- One or both grips in wrong location (i.e., not on lower leg), the maximum score will be 7,0.
- When grips are not taken simultaneously, the maximum score will be 8,0.

FF-3. Cat Barrel Roll

Cat position

- Both Performers are in belly-down orientation.
- One Performer has grips on the lower legs of the other Performer, the right hand on the right lower leg and the left hand on the left lower leg.
- The upper legs should be in line with the torso.
- Both Performers simultaneously perform two (2) consecutive full barrel rolls, without stopping, along the same axis, maintaining the same heading.
- The barrel rolls can be in either direction.

Videographer requirements

- The image must be upright with the sky in the upper portion of the frame.
- At the beginning, the Videographer must be in line with the body Left-Right axes of the Performers showing a side of the Performers.
- Videographer must be on the same level as the Performers' centre point and remain in place throughout the sequence.

Judging guidelines

- One or both grips in wrong location (i.e., not on lower leg), the maximum score will be 7,0.
- If the two (2) barrel rolls are not consecutive and smooth, the maximum score will be 8,0.

FF-4. Turning Totem

Totem

- Both Performers are in layout position in head-up orientation, on the same heading.
- One Performer demonstrates a feet-to-shoulder dock, a separate foot on each side of the head of the lower Performer, without any additional grips.
- The left foot of the top Performer must be on the left shoulder of the lower Performer and the right foot of the top Performer must be on the right shoulder of the lower Performer.
- Both Performers simultaneously pirouette 360°.
- The pirouette can be in either direction.
- Both Performers must stay in the same axis and in layout position during the pirouette, without wobbling.

Videographer requirements

- The Videographer must show the front of both Performers on level with the head of the lower Performer and remain in place throughout the sequence.

Judging guidelines

- Wrong body position (when the lower Performer is sitflying/kneeflying, instead of layout position), the maximum score will be 5,0.
- For assisting grip(s) (i.e. hands on feet), the maximum score will be 7,0.

SECOND COMPULSORY ROUND (ROUND 5)

FF-5. *Angle Carve*

THIS COMPULSORY SEQUENCE MUST **NOT** BE THE FIRST ONE PERFORMED!

- Both Performers are in an approximately 45° diagonal orientation with their heads low.
- At the beginning, one performer is facing upward, and the other performer is facing downward, face-to-face.
- At the beginning and the end, the Performer facing upward must be in a layout position, without any bend at the waist.
- The Performers make a 180° inface carve on the same diagonal line of flight.
- The carving must be round (not elliptical).
- During the carve, Performers must stay on level (based on the line perpendicular to the diagonal).

Videographer requirements

- At the beginning and the end, the Videographer must show the Performers from the side.
- At the beginning and the end, the Videographer must show the horizon at an approximately 45° diagonal angle.
- Videographer must simultaneously carve 180° going under the Performers in the opposite direction and end on the opposite side of the Performers' centre point.
- Videographer must maintain the same distance and the same level with the Performers' centre point.

Judging guidelines

- When this Compulsory Sequence is performed first in the compulsory routine, the maximum score will be 3,0.

FF-6. *Linked Full Eagle with Trick*

Eagle

- Both Performers are in head-down orientation, with a hand-to-hand grip (left hand of one Performer with the right hand of the other Performer or vice versa), facing the Videographer.
- The Performers go below the Videographer as the Videographer goes over the top, moving around an imaginary centre between them so that they end up in opposite positions and orientations than they originally began. The movement continues until the Performers and the Videographer end up in their relative beginning positions.
- The Performers must perform a tuck front loop (trick) in the middle of the second part of the Eagle (when they are above the Videographer).
- The Full Eagle should be performed as one continuous movement.
- The Full Eagle must remain on the same heading.

Videographer requirements

- Videographer must show Performers from their front during the whole sequence, with the exception of the full tuck front loop.

Judging guidelines

- When no trick is performed, the maximum score will be 6,0.
- When the grip is not hand-to-hand, the maximum score will be 7,5.

FF-7. *Stand-up Star*

Stand-up Star

- Beginning is when both Performers are in layout position in head-up orientation face to face.
- A double hand-to hand grip is taken (left-to-right hand and right-to-left hand).
- Both Performers release their grip at the same time.
- Both performers simultaneously perform a 360° pirouette in the layout position while remaining on the same level.
- Both Performers retake both grips at the same time.
- The distance between the Performers must remain the same during the sequence.

Videographer requirements

- Videographer must show the side of the Performers at the beginning, on the same level, stay on level and remain in place.

Judging guidelines

- Wrong body position (when either or both Performers is/are sitting/kneeflying, instead of layout position), the maximum score will be 5,0.
- When grips are not taken simultaneously, the maximum score will be 8,0.
- When only one (1) grip is taken, the maximum score is 7,0.
- When one or both grips is are not hand-to-hand, the maximum score is 7,5.

FF-8. Synchronized Back Layouts

Back Layouts

- Both Performers begin in layout position in head-up orientation, side by side, on the same level and heading.
- Both Performers simultaneously perform a full layout back loop.
- Without stopping, both performers simultaneously perform a full layout back loop half twist.
- The half twist must be performed within and evenly executed throughout the loop, and performed in the same direction.
- Looping motion must be smooth, around the same horizontal axis, without wobbling.
- Both Performers simultaneously end in head-up orientation, side by side, both facing the opposite heading (of the beginning).

Videographer requirements

- The image must be upright with the sky in the upper portion of the frame.
- At the beginning, the Videographer must be in front of both Performers.
- Videographer must stay on the same level as the Performers' centre point and remain in place throughout the sequence.

Judging guidelines

- When each Performer is twisting in a different direction, the maximum score will be 5,0.
- When no twist is made, the maximum score will be 3,0.

ADDENDUM B

BASIC BODY POSITIONS, ORIENTATIONS AND ROTATIONS

A. DEFINITION BODY PARTS

A Body consists of the entire Performer and his/her equipment.

The parachutist's body is defined in specified parts, as follows:

- head: the part of the body above the neck.
- shoulder: the upper part of the body between the neck and the upper arm.
- torso: the body, including the shoulder, and parachute, but excluding arms, legs, head and neck.
- arm: the whole arm from the parachute harness, including upper arm, lower arm, wrist and hand (the shoulder is excluded).
- upper arm: the part of the arm between the shoulder and the elbow.
- lower arm: the part of the arm between the elbow and the wrist.
- hand: the part of the arm past the wrist.
- leg: the whole leg from the parachute harness, including the upper leg, knee, lower leg and foot.
- upper leg (thigh): the part of the leg between the leg strap of the parachute harness and the knee.
- knee: the part of the leg between the upper leg and the lower leg.
- lower leg: the part of the leg between the knee and the ankle.
- foot: the part of the leg past the ankle.
- sole: that part of the foot on which a person stands.

Grips can be taken and docks can be placed on these parts.

B. BODY POSITION

The body can be in an arch, layout or pike position with the limbs in any of various positions. These define the amount of bend at the waist/hips and the angle of the upper legs (thighs) relative to the torso. Additional body positions define positions of the legs. The arms are left free to control the position. For description purposes on heading, torso means the front of the torso.

B-1. Arch Position

- The torso is arched at the waist/hips, such that the angle between the front of the torso and the thighs is greater than 180° (if viewed from the side).
- If both legs are together with the knees straight, the angle between the front of the torso and both thighs must be greater than 180° (if viewed from the side).
- If the legs are in a creative position, at least one thigh must show an angle greater than 180° from the front of the torso (if viewed from the side).
- The head may be arched back.

B-2. Layout Position

- The torso is straight, with no bend at the waist/hips (if viewed from the side).
- If both legs are together with the knees straight, both legs must in line with the torso (if viewed from the side).
- If the legs are in a creative position, at least one thigh must be in line with the torso (if viewed from the side).

B-3. Pike Position

- The torso is bent forward at the waist/hips, such that the angle between the front of the torso and the thighs is less than 180° (if viewed from the side).
- If the legs are both together and straight at the knees or in a creative position, the angle between the front of the torso and the thighs must be less than 180° (if viewed from the side).
- For a Loose Pike, the angle between the front of the torso and the thighs is between 90° and 180° (if viewed from the side).
- For a Tight Pike, the angle between the front of the torso and the thighs is less than 90° (if viewed from the side).

B-4. Tight Tuck Position

- The torso is bent forward at the waist/hips such that the angle between the front of the torso and the thighs is less than 90° (if viewed from the side).
- The knees are bent, such that the angle between the upper and lower legs is less than 90°. The knees are not necessarily all the way up against the chest.
- The knees may be together or spread apart.
- For a Loose Tuck, the two described angles are between 90° and 180° (if viewed from the side).

B-5. Sit Position

- The torso is vertical in a head-up orientation.
- The angle between the front of the torso and thighs is between 90° and 145° (if viewed from the side).
- The knees are bent such that the angle between the upper and lower legs is between 90° and 145°.
- The lower legs are parallel to the torso.
- The knees may be together or spread apart.

B-6. Stag Position

- One leg is completely straight at the knee.
- The other leg is flexed forward at the hip and the knee is flexed to place the toe at the knee of the straight leg. The knee is flexed at least 90°.
- An Open Stag is when the lower leg of the bent leg is parallel with the upper leg of the straight leg. (The toe is not placed at the knee of the straight leg.)
- The knee of the leg placed in the Stag points forward.
- The body can be in an arched, layout or piked position while in a Stag Position.

B-7. Straddle Position

- The legs are split apart, from side to side, with at least a 90° angle between them (if viewed from the front).
- Both knees are straight.
- The body can be arched (Arched Straddle Position), in a layout (Layout Straddle Position) or piked (Piked Straddle Position) with the legs in a Straddle Position.

B-8. Split Position

- The legs are split apart from front and back, with at least a 90° angle between them (if viewed from the side).
- Both knees are straight.

B-9. Tee Position

- The torso may be straight, with no bend at the waist, or arched.
- One leg is extended in front of the torso, with an angle of 90° between the front of the torso and the thigh (if viewed from the side).
- The other thigh is in line with the torso or has an angle greater than 180° from the torso (if viewed from the side).
- Both knees are straight.

B-10. Compass Position

- The torso is in the head-up orientation.
- One leg is in line with the torso.
- For a parallel Compass, the other leg is raised forward, such that the angle between the thigh and torso is 90° or less.
- For a turned-out Compass, the other leg is split to the side with the knee pointed upward, such that the angle between the thigh and torso is 90° or less.
- Both knees are straight.
- The body can be in an arched or layout position with the legs in a Compass.

C. ORIENTATIONS

There are six (6) different basic orientations (not including the diagonal orientations) which a body can have to the relative wind (or ground when at terminal velocity without horizontal movement). These define which way the torso is oriented.

C-1. Belly-down Orientation

The torso is horizontal, on its front, facing down towards the relative wind.

C-2. Back-down Orientation

The torso is horizontal, on its back, facing upwards away from the relative wind.

C-3. Sideways Orientation

The torso is horizontal, on its side, with either side facing towards the relative wind. At terminal velocity without horizontal motion, the chest is facing the horizon.

C-4. Head-up Orientation

The torso is vertical with the head up, directly away from the relative wind.

C-5. Head-Down Orientation

The torso is vertical with the head pointing directly into the relative wind.

C-6. Diagonal Orientation

The diagonal orientation is with respect to the horizon line and ground at terminal velocity. The torso is on a diagonal with respect to the horizon line and ground, at an angle between the six (6) basic orientations. The torso may be head high or head low. The front of the torso may be pointed towards the ground, towards the sky or any direction about the Body Head-Tail axis.

D. ROTATION AXES

Most moves involve some sort of rotational motion of the body. A total of five (5) axes are used to describe the six (6) possible basic rotational motions.

D-1. Wind Axes

There are two (2) inertial axes which stay fixed with respect to the relative wind (or ground when at terminal velocity with no horizontal motion).

Vertical Axis

The vertical axis remains parallel to the relative wind, (pointing from the sky to the ground when at terminal velocity with no horizontal motion).

Horizontal Axis

The horizontal axis is any axis perpendicular (90°) to the relative wind, (pointing to the horizon when at terminal velocity with no horizontal motion). It may have any heading (pointing towards any desired point on the horizon).

D-2. Body Axes

There are three (3) body axes which stay fixed with respect to the Performer's body.

Body Head-Tail Axis

The body head-tail axis is oriented lengthwise, pointing from head to tail-bone, normally through the Performer's torso. (In a layout position, the head and feet are in the same line. When the body is bent at the hips, this axis is aligned with the spine does not include the legs.)

Body Front-Back Axis

The body front-back axis is oriented forwards and backwards, pointing from front to back, normally through the Performer's belly.

Body Left-Right Axis

The body left-right axis is oriented sideways, pointing from left to right, normally through the Performer's hips.

E. BASIC ROTATIONAL ACTIONS

There are six (6) basic rotational actions. Twisting combines rotational actions by adding a rotation about the body head-tail axis during a rotation about the body left-right or front-back axis.

E-1. Flat Turns

Flat turns involve a rotation about the body front-back axis when that axis is aligned with the vertical axis. The Performer's heading is changing. The body can be belly-down or back-down while performing a flat turn.

E-2 Pirouettes

Pirouettes involve a rotation about the body head-tail axis when that axis is aligned with the vertical axis. The Performer's heading is changing. The body can be head-up or head-down while performing a pirouette.

E-3 Barrel Rolls

A barrel roll is a rotation about the body head-tail axis when that axis is aligned with the horizontal axis. A barrel roll may begin and end in a belly-down, back-down or sideways orientation.

E-4 Cartwheels

A cartwheel is a head-over-heels rotation about the body front-back axis when that axis is aligned with the horizontal axis. The body passes through a head-up, sideways and/or head-down orientations during the course of a cartwheel. A cartwheel needs not start nor finish in an exact head-up, sideways or head-down orientation. A cartwheel is considered to be a full cartwheel when the head has travelled 360° around the horizontal axis from the point at which it started. A cartwheel may be performed to the right or left.

E-5. Loops

A loop is a head-over-heels rotation about the body left-right axis when that axis is aligned with the horizontal axis. The body passes through a head-up, belly-down, head-down and/or back-down orientation during the course of the loop. A loop may begin and end in a head-up, belly-down, head-down and/or back-down orientation. A loop needs not start nor finish in an exact head-up, belly-down, head-down and/or back-down orientation. A loop is considered to be a full loop when the head has travelled 360° around the horizontal axis from the point at which is started. There are two (2) kinds of loops. (Loops are referred to by the direction in which the loop is initiated, since in the case of twisting loops, the direction in which the loop completes may be different from the direction at the start.)

Back Loop

A back loop is a loop rotation initiated with the torso rotating backwards.

Front Loop

A front loop is a loop rotation initiated with the torso rotating forwards.

E-6. Side Loops (Loops in the sideways orientation)

A loop in the sideways orientation is a rotation about the body left-right axis when that axis is aligned with the vertical axis. For example, a Pinwheel is a true loop on the side.

E-7. Twists

Twisting combines rotational actions by adding a rotation about the body head-tail axis during a rotation about the body left-right or front-back axis, aligned with either the horizontal or vertical axis. There are two (2) basic categories of twists.

Vertical Twists

A vertical twist is a head-over-heels rotation about the horizontal axis (loop or cartwheel) combined with a rotation about the body head-tail axis. A single or full twist is defined to be a 360° rotation about the body head-tail axis over the course of a 360° loop or cartwheel. The amount of twist contained within a loop or cartwheel is the amount of twisting rotation completed after a 360° looping or cartwheeling rotation has been performed, when measured from the point in the loop or cartwheel at which the twist was first initiated. Twists may be initiated at any position in the loop or cartwheel and in any direction.

Horizontal Twists

A horizontal twist is a rotation about the vertical axis (flat turn or side loop) combined with a rotation about the body head-tail axis. A single or full twist is defined to be a 360° rotation about the body head-tail axis over the course of a 360° flat turn or side loop. For example, a Flip Through is a horizontal twist.

F. CIRCULAR PATHWAYS

There are two (2) basic types of circular pathways a Performer(s) may follow with respect to another team member, which can be performed either infacing or outfacing. Circular pathways may have embedded moves (e.g. Carousel).

Inface

The front of the torso faces inward towards the concave side of the pathway, while moving about an imaginary centre.

Outface (Blind)

The front of the torso faces outward away from the concave side of the pathway, while moving about an imaginary centre.

F-1. Carving

The Performer's body traces a circular path about an imaginary centre in approximately a horizontal plane. Carving is performed while head-down, head-up or in other orientations.

F-2. Vertical Orbits

The Performer's body traces a circular path about an imaginary centre in a vertical plane. Eagles and Reverse Eagles are two (2) common forms of Vertical Orbits that involve also rotating about the Body Left-Right Axis.

Eagle

An Eagle begins with each team member in the opposite orientation, facing away or toward one another. An Eagle may be performed by a Performer(s) with their Videographer or by two Performers with each other. The team members travel in a Vertical Orbit while continuously leading with the head, passing through the back-down, head-up, belly-down and/or head-down orientation (in that order, if infacing, maintaining continuous eye contact). An Eagle may begin from any orientation in this progression. A Half Eagle is when 180° of vertical orbiting is complete. A Full Eagle is when 360° of vertical orbiting is complete.

Reverse Eagle

A Reverse Eagle begins with each team member in the opposite orientation, facing away or toward one another. A Reverse Eagle may be performed by a Performer(s) with their Videographer or by two Performers with each other. The team members travel in a Vertical Orbit while continuously leading with the feet (or tail-bone), passing through the back-down, head-down, belly-down and/or head-up orientation (in that order, if infacing, maintaining continuous eye contact). A Reverse Eagle may begin from any orientation in this progression. A Half Reverse Eagle is when 180° of vertical orbiting is complete. A Full Reverse Eagle is when 360° of vertical orbiting is complete.

ADDENDUM – C DIFFICULTY

'Difficulty' is the combined result of several factors. Moves are classified from very easy to very difficult. The overall performance of the jumps (poses, moves and transitions) counts for difficulty. In general, difficulty factors are:

Easy	Difficult
Large support base	Small support base
Rotations on 1 axis	Rotations on >1 axis (in which use of 3 axes is more difficult than use of 2 axes)
Transitions between moves with the same axes	Transitions between moves with different axes
Single spins in loops	Multiple spins in loops
Single moves	Consecutive moves
No direction change	Reversal of direction
No synchronization with Videographer	Moves synchronized with Videographer
Eye contact	No eye contact

According to this list of difficulty factors, the following are examples only of the grading:

Freeflying					
Manoeuvres	Very easy	Easy	Moderate	Difficult	Very difficult
Carving head down	Inface	Inface with direction change or spins	Taking grips out face	Outface	Outface with direction change, inclusion of spins/ tricks
Carving head up			Inface	Inface direction change or spins	Outface
Eagle head up/head down	Half	Full	Full with tricks spins Half reverse	Full reverse	Full reverse with tricks, spins
Eagle head up/head up		Half	Full	Full with, tricks, spins	
Synchronized moves	Loop	Loops	Loops with half twists	Loops full twist	Loops with multiple twists
Tracking/angled flight	Side-by-side belly fly, background is still	Side-by-side back fly, background is still	Side-by-side belly or back fly, background is moving	Slot swapping/ rolls while background is moving Feet first	Cork screwing in sync with camera including tricks/rolls/spins Feet first with tricks/rolls/spins
Head up & head down	Double spock Compress Totem Double joker Double grip vice-versa Head-up Star	Sole-to-sole Vertical compressed rotations Double grips Head Up	Double joker reverse Double sole-to-sole Head-to-head Vertical compressed switch Totem rotation	Head-to-head rotation Sole-to-sole rotation	
Belly-down/back-down position	Cat Star Compressed	Brouette Cat barrel roll	Interlock (leg lock)		
Videographer flying	Static	Static spins (cartwheels)	Continuous motion	Continuous motion (move from one axis to another in carving motion) Direction switches	Elliptical orbits as well as circular orbits to showcase speed. Spins whilst maintaining directional movement

According to this list of difficulty factors, the following are examples only of the grading:

Freestyle Skydiving				
Very easy	Easy	Moderate	Difficult	Very difficult
F/B tuck loop F/B LO loop	F/B LO 0.5 twist	F/B LO 1 twist LO Cartwheel 0.5 twist LO Cartwheel	F/B LO 1.5 twist LO Cartwheel 1 twist Consecutive full twists	F/B LO 2 or more twists LO Cartwheel 1.5 or more twists Consecutive double twists
Straddle Standup	Straddle headstand	Straddle Cartwheel, Straddle headstand pirouette, Swan (headstand with legs straight and together, with a straight body)	Swan spin	Head-down spin with legs at 90° (Pike)
Flip through		Thomas Flair		
Symmetrical head- up poses (i.e. Standup, V-Seat, Straddle Seat, Sitfly)	Daffy headstand, Daffy switch, Daffy swivel, Daffy reverse Head-down carve Head-up carve	Compass switch, Compass swivel, Compass illusion, Compass inversion, Billman, Helicopter	Swan pirouette, Helix spin, Stag LO 1 twist, Eouzan	Blind carving with 360° pirouette inside the carve
Tee Tee reverse Tee switch Tee swivel Pinwheel	Back-down Tee, Propeller, Arabian	Stag kick pirouettes, Stag spin	Robin Spin	Fast Robin Spins (2 or more) with quick stop
		Pike backstop	Cele (continuous back loop, tuck position + at least 1 twist in each loop)	Double Cele (continuous back loop, tuck position + double twist in each loop)
	Half Eagle	Half Eagle + tricks, Full Eagle, Half Reverse Eagle	Half Reverse Eagle + tricks, Full Reverse Eagle, Full Eagle + tricks	Full Blind Eagle, Full Reverse Eagle with tricks, Half Eagle with Breaker

No stops are allowed between (part of) twists or these parts will be valued as single twisting moves.

Switch: A simultaneous change of the legs of the leg position (left to right, front to back, up to down) while maintaining the same body position and orientation.

Swivel: A transition between similar positions, but on opposite legs, while keeping the legs in approximately the same place. For example, a daffy swivel might start in a right daffy (right leg forward), and then you twist your upper body 180° over your legs, such that you end up in a left daffy, facing 180° away from where you started.

Illusion: An upward transition where only the orientation changes while maintaining the same body position, (for example from a Tee to a Compass while holding the legs in place and rotating the torso over the legs).

Inversion: A downward transition where only the orientation changes while maintaining the same body position, (for example from a Compass to a Tee while holding the legs in place and rotating the torso over the legs).

ADDENDUM - D ROUTINE DESCRIPTION

Instructions for use:

Word file (recommended):

- Download the addendum – D as word.doc on a PC and save it, preferably under your Team country name and number.
- Fill in the required data. If a selection has to be made delete the data which you don't need and leave the needed ones.
- Add rows in the Free Routine description if needed.
- When done, save it again under a name relating to your team and event.
- Print the document and deliver it to the Chief Judge.

PDF file:

- Print the page of the addendum – D.
 - Fill in the required data with pen (black or blue only). If you need to select, circle the appropriate event / round.
 - Print the last page with boxes only if you need more rows in the Free Routine description.
 - When done, deliver it to the Chief Judge.
- **Do not write out of the boxes, or in the sidelines or edges of the paper.**

Team number #	Team country:			
Please indicate the event <i>(handle as appropriate)</i>	FREESTYLE SKYDIVING – FREEFLYING			
State the order in which the compulsory sequences will be performed. The valid sequences are at: http://www.fai.org/ipc-documents , then look for « artistic events »				
First Compulsory Round, round 2: <i>(FR-1 through FR-4, or FF -1 through FF-4)</i>				
Second Compulsory Round, round 5: <i>(FR-5 through FR-8, or FF -5 through FF-8)</i>				
The Free Routine description covers the following rounds <i>(handle as appropriate)</i>	ALL - 1 - 3 - 4 - 6 - 7			

Name of move / sequence	Description if appropriate
