‘We, the judges, promise to judge all competitions with complete impartiality; respecting and abiding by the rules and regulations. We promise to officiate at all competitions giving no favour based on nation, gender, competitor’s ranking, or previous performances in this or any other competition. We will judge each run solely on the merit of the observed performance without preconceptions or expectations.’
Table of contents

6000 AERIALS.................................................................................................................. 5
6001 DEFINITION ............................................................................................................ 5
6002 SCORING ................................................................................................................. 5
6002.1 AIR...................................................................................................................... 5
6002.2 FORM .................................................................................................................. 5
6002.3 LANDING ............................................................................................................. 5
6003 SCORING PROCEDURES ...................................................................................... 5
6003.1 5 JUDGE FORMAT ............................................................................................. 5
6004 JUDGING CRITERIA ............................................................................................... 6
6004.1 AIR ...................................................................................................................... 6
6004.2 FORM .................................................................................................................. 7
6004.3 LANDING ............................................................................................................ 13
6200 MOGULS .............................................................................................................. 15
6201 DEFINITION ......................................................................................................... 15
6202 SCORING ................................................................................................................. 15
6202.1 TURNS ................................................................................................................ 15
6202.2 AIR ...................................................................................................................... 15
6202.3 SPEED ................................................................................................................ 15
6203 SCORING PROCEDURES ...................................................................................... 15
6203.1 7 JUDGE FORMAT ............................................................................................. 15
6203.2 5 JUDGE FORMAT ............................................................................................. 16
6204 JUDGING CRITERIA ............................................................................................... 15
6204.1 TURN.................................................................................................................. 15
6204.2 DEDUCTIONS OF TURNS POINTS ................................................................. 19
6204.3 AIR ...................................................................................................................... 19
6204.4 SPEED ................................................................................................................ 27
6300 DUAL MOGULS .................................................................................................... 28
6301 DEFINITION .......................................................................................................... 28
6302 PAIRINGS .............................................................................................................. 28
6303 SCORING PROCEDURES ...................................................................................... 28
6304 JUDGING PROCEDURE DUAL MOGUL FORMAT ............................................. 28
6304.1 DUAL MOGULS .................................................................................................. 28
6304.2 DUAL MOGUL SYSTEM .................................................................................... 27
6305 SPECIAL PROCEDURES: DUAL MOGULS ...................................................... 30
6305.1 NUMBER OF AERIAL MANEUVERS ............................................................... 30
6305.2 SCORING AIR IN DUAL MOGULS ................................................................. 30
Appendix A .......................................................................................................................
6000  AERIALS

6001  Definition

Aerial competition shall consist of one, or multiple different acrobatic leaps from a prepared jump(s), stressing take-off, height and distance (referred to as "air"), proper style, execution and precision of movement (referred to as "form") and landing. Refer to ICR 3060.2.8, and 4009 concerning competition formats.

6002  Scoring

The competitor’s acrobatic skiing will be judged on three basic components as follows:

6002.1  Air:
Consisting of 20% of the score. 0.0 - 2.0

6002.2  Form:
Consisting of 50% of the score. 0.0 - 5.0

6002.3  Landing:
Consisting of 30% of the score. 0.0 - 3.0

6003  Scoring Procedures

6003.1  5 Judge Format

Judges shall independently evaluate the competitor’s performance based upon the Air and Form Criteria as stated in JH 6004.1, 6004.2 and the Landing Criteria in 6004.3. The high and low scores of each component will be discarded and the remaining three scores in each component will be added together.

6003.3.1  Total Score

The total Judges’ Score is calculated by adding the three counting scores in each component. This total is then multiplied by the appropriate Degree of Difficulty (DD) factor to determine the total score for each jump. The total will be truncated to two decimal places.

In a two jump Phase, the competitor’s final score for both jumps is determined by adding together the total scores from each jump.

Example:
Judges Scores
Take Off & Air 4.6 1.7 4.9 1.7 1.8 5.2
Form 4.5 4.2 4.3 4.4 4.6 13.2
Landing 2.4 2.3 2.4 2.2 2.5 7.1

Total Score (Maximum 30 points x Degree of Difficulty)

Total Judges’ Score: = 25.5
Total Score: = 25.5 x DD
6004 Judging Criteria

6004.1 Air (20% of the Score) Min. = 0.0 / Max. = 2.0

Air shall be evaluated based upon the take-off, height and distance of the competitor's jump. Take-off involves an evaluation of how the jump is initiated. Height and distance are a product of speed into the jump and the force of the take-off. Take-off, height and distance shall also be evaluated in relation to the length and steepness of the landing hill. The competitor should not land too short (knoll) or too long (beyond the transition area of the landing hill).

Air consists of 20% of the score (maximum 2 points per judge) and will be broken down into two parts:

10% Technical Take-Off
10% Height and Distance

6004.1.1 Technical Take-Off Min. = 0.0 / Max. = 1.0

Technical take-off refers to the manner in which the competitor initiates the jump by extending the body at the right moment while leaving the kicker.

Take-off is judged from the moment the competitor enters the transition, until the feet leave the kicker.

6004.1.1.1 Good Take-Off 0.7 - 1.0

Just before the competitor leaves the kicker the body may be fully extended or may have a slight bend in the waist (boots at the end of the kicker). The slight bend in the waist is acceptable as long as the athlete straightens out their body within the first quarter of the flip. The actual position in the jump (tuck, twist, spread, etc.) should not begin before the feet have left the kicker.

6004.1.1.2 Non-optimal Take-Off 0.4 - 0.6

There are different types of mistake:

The competitor does not pop at the right moment (too early or too late), the form starts too early (twisting on the kicker), i.e. the arms are behind the body; shoulders are pushed backward too much; bent in the knees.

Points are deducted according to the number and severity of these mistakes.

6004.1.1.3 Bad Take-Off 0.0 - 0.3

Take-off is completely missed, causing an uncontrolled jump in most cases.
6004.1.2   **Height and Distance**  \( \text{Min.} = 0.0 / \text{Max.} = 1.0 \)

Height and distance are a product of speed into the jump and the force of the take-off. It shall be evaluated according to the trajectory through the air and the optimum landing point of the kicker (Refer to 6004.1.2.1).

6004.1.2.1   **Good Height and Distance**  \( 0.7 - 1.0 \)

The trajectory through the air begins at an angle that is continuing the curve of the kicker.

i.e.:  
- Small Jumps - about 55°
- Medium Jump - about 60°
- Large Jumps - about 71°

The *optimum* landing point should be the range from 2 m to 4 m, including 1 or 2 m plus or minus adjustments away from the knoll.

6004.1.2.2   **Non-optimal Height and Distance**  \( 0.4 - 0.6 \)

The trajectory through the air is too high or too low. The landing is in the transition area from the knoll to the optimum landing point.

6004.1.2.3   **Bad Height and Distance**  \( 0.0 - 0.3 \)

The jump is landed on the knoll or on the outrun.

6004.2   **Form (50% of the Score)**  \( \text{Min.} = 0.0 / \text{Max.} = 5.0 \)

Form consists of 50% of the score (maximum 5 points per judge).

Form denotes the position of the body, skis, arms, hands, and/or poles while in the air. It is the manner in which the competitor executes each maneuver. Form shall be evaluated based upon competitor's precision of performance (i.e. Tightness of body, economy of motion), balance, mechanics, stability (or control) in the air, separation and the timing of the maneuver in relation to the apex of the jump. Form is judged from when the competitor's ski tips start to leave the jump until the competitor touches the snow.

All judges will deduct 0.5 from their score for a violation of the balk rule ICR 3057.11.
6004.2.1 Positions in the Form

6004.2.1.1 Planned maneuvers
If the number of planned maneuvers is not fulfilled (somersaults, twists, 360's, upright positions) resulting in too many or not enough maneuvers, the competitor receives DNF. ➔Refer to ICR 3058

Example:
Flight Plan: Jump Performed:
Tuck-Tuck Tuck-Tuck-Tuck DNF (ICR 3058).
Full-Double Full Full-Full DNF (ICR 3058).

6004.2.1.2 Breakdown of Form deductions
A judge breaks down the form points to the number of maneuvers (somersaults, 360's, twists, upright positions), and takes off the percentage accordingly if the form in one, two, three, or more parts is missed completely or partially.

Example:
Flight Plan: Jump Performed: Value
Lay-Tuck Lay-Tuck max. 5.0
Lay-Tuck Tuck-Tuck max. 2.5
Lay-Tuck Tuck-Lay max. 0.0
Lay-Tuck Lay-Lay max. 2.5
Twister-Twister Twister-Twister max. 5.0
Twister-Twister Twister-Spread max. 2.5

6004.2.2 Form score
Form is evaluated according to two criteria:
Timing; and the quality of execution as modified by Form breaks.
6004.2.2.1 Timing

6004.2.2.1.1 Early Twist Start

No deduction for early initiation will be made provided that (a) the twist does not begin before the head is at the 9:00 position and (b) no more than a quarter twist is completed before reaching 12:00.
6004.2.2.1.2 Late conclusion of twists in double somersaults (late finish)
6004.2.2.1.3 Late conclusion of twists in triple somersaults (Twist finish)

6004.2.2.2 Form Breaks

The following is a guide to use when assessing form breaks:

- Minor form breaks deduct up to 25% of possible form points
- Medium form breaks deduct up to 50% of possible form points
- Major form breaks deduct up to 100% of possible form points

As in take-off, the body should be extended, not only at take-off, but also prior to landing. The amount of deduction depends on whether the form is bad throughout the whole jump or only in parts of the maneuver.

For example, Jumps performed with a minor form break in one somersault:

<table>
<thead>
<tr>
<th></th>
<th>Single Twist</th>
<th>Double Twist</th>
<th>Triple Twist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>2.5 - 5.0</td>
<td>1.7 - 2.5</td>
<td>0.9 - 1.7/ 1.6</td>
</tr>
<tr>
<td>Deduction</td>
<td>1.2</td>
<td>0.6</td>
<td>0.4</td>
</tr>
<tr>
<td>Total</td>
<td>3.8</td>
<td>4.4</td>
<td>4.6</td>
</tr>
</tbody>
</table>
### Form Break / per flip

<table>
<thead>
<tr>
<th>Jump</th>
<th>minor</th>
<th>medium</th>
<th>major</th>
</tr>
</thead>
<tbody>
<tr>
<td>single</td>
<td>0.1 - 1.2</td>
<td>1.3 - 2.5</td>
<td>2.6 - 5.0</td>
</tr>
<tr>
<td>double</td>
<td>0.1 - 0.6</td>
<td>0.7 - 1.2</td>
<td>1.3 - 2.5</td>
</tr>
<tr>
<td>triple</td>
<td>0.1 - 0.4</td>
<td>0.5 - 0.8</td>
<td>0.9 - 1.7</td>
</tr>
</tbody>
</table>

A guideline to differentiate between minor, medium and major form breaks is as follows:

All definitions of form are based on body positions. All positions have to be in the layout (straight body, no bending, 0°), or tuck or pike (90° bending at the knees, hip) position. The only exception is the puck position (only allowed for half-in and twisting front flips).

Anything with a variation of less than 45° off the required position should be considered minor. Anything with a variation of approximately 45° off the required position should be considered medium. Anything with a variation of clearly more than 45° off the required position should be considered major.

Deductions are cumulative. Multiple minor form breaks in the same movement can result in a major form break.

#### 6004.2.2.2.1 Separation

Separation means the competitor is able to clearly demonstrate the beginning and the end of each maneuver, i.e. the declared number of twists within each flip. If there are a different number of twists within each flip of the jump, the competitor should clearly demonstrate a change of twisting speed between each of the flips. The hands can help to identify when a twisting maneuver is completed but are not necessary to show separation.

Presence of separation, or lack thereof, should not have any significant impact on the criterion of timing. Any particular jump may have clear separation of maneuvers without proper timing and vice versa: timing criteria can conceivably be satisfied without clear separation.

#### 6004.2.2.2 Points to Assess Form Breaks

**6004.2.2.3 General Body Position (as defined above)**

<table>
<thead>
<tr>
<th>Leg Position</th>
<th>Ski Position</th>
<th>Body Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legs apart</td>
<td>Skis splayed</td>
<td>Pucking</td>
</tr>
<tr>
<td>Scissoring</td>
<td>Skis apart (tips or tails)</td>
<td>Spiral segmentation</td>
</tr>
<tr>
<td>Knee bend</td>
<td></td>
<td>Separation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hollow</td>
</tr>
</tbody>
</table>

Page 12
6004.2.2.2.4 Control In Air

Excessive motion to control speed can be pulling and stretching as defined below, and the relative over or under rotation of the flip. Excessive motion can also be exhibited in upright jumps mostly with the arms being used for balance, or to increase or decrease rotational speed and to prevent landing too far forward, backwards or not square to the fall line.

In the case of a Layout position, flipping speed can be increased by pulling the body inward and bending at the knees and waist and neck, or decreased by stretching the body and the arms parallel to the head, both of which could be form breaks.

**NOTE:**

In the last quarter of flip rotation, just prior to landing, it is acceptable for the athlete to make minor adjustments in the body position and leg position in order to square the skis and body to the landing hill. During this “preparation for landing” the athlete may have a slight bend at the waist (to 45°) and open the legs (to shoulder width) without being assessed form break deductions.

6004.3 Landing (30% of the Score) Min. = 0.0 / Max. = 3.0

A proper landing involves a balanced, stable and controlled body position throughout. The competitor should demonstrate precision and grace with minimal interruption upon contact with the landing surface. Absorption should be made primarily with the knees and lower body with only a slight bend at the waist. The evaluation of a landing starts immediately when the competitor touches the snow and continues until the competitor has exhibited sufficient skiing control.

Landing consists of 30% of the total score (maximum 3.0 points per judge).

**Landing consists of two parts**

1. Landing - body position in relation to the landing hill following preparation for landing, ski snow contact on impact as well as absorption of the body to come back to the neutral body position.

2. Exit from the landing following the snow contact, impact and absorption.

**NOTE:**

Preparation for landing is considered in Form.
### 6004.3.1 Landing  
Min. = 0.0 / Max. = 3.0

<table>
<thead>
<tr>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>No weight on skis</td>
</tr>
<tr>
<td>0.1 – 0.5</td>
<td>Minimal weight on skis, sliding on back or side; immediate crash</td>
</tr>
<tr>
<td>0.6 – 1.0</td>
<td>Landing with immediate body contact; hard back slap or punch front with snow contact back to skis; severe over or under rotation</td>
</tr>
<tr>
<td>1.1 – 1.5</td>
<td>Light back slap, severe turn to 45 degrees or more to landing hill, turn around no fall or touch, severe imbalance</td>
</tr>
<tr>
<td>1.6 – 2.0</td>
<td>No body contact but hand or hands dragging with hard compression, heavy imbalance</td>
</tr>
<tr>
<td>2.1 – 2.5</td>
<td>No touch of hand(s) but some imbalance on landing or ski away; hard compression with no touch</td>
</tr>
<tr>
<td>2.6 – 3.0</td>
<td>Excellent landing, good balance with little or no compression</td>
</tr>
</tbody>
</table>

**NOTE:**

If an athlete has any hand contact, the maximum score is 2.0.

If an athlete has any body contact, the maximum score is 1.5.

An athlete that doesn’t touch can receive a score lower than 2.0 for severe imbalance, skiing sideways, circling or backwards.

Landing will stopped being judged when the athlete shows control and at least 4 meters after making contact with the snow. If the athlete does not show control within 4 meters of contact with the snow, then landing will be judged until the athlete shows control or reaches finish area.
6200  MOGULS

6201  Definition
Mogul competition shall consist of one run of free skiing on a steep, heavily moguled course, stressing technical turns, aerial maneuvers and speed.
Refer to ICR 3060.2.1 concerning Qualification and Finals.

6202  Scoring

6202.1  Turns:
Consisting of 60% of the score. ➔ max 60.0 points

6202.2  Air:
Consisting of 20% of the score. ➔ max. 20.0 points

6202.3  Speed:
Consisting of 20% of the score. ➔ max. 20.0 points

6203  Scoring Procedures

6203.1  7 Judge Format
The Judges will evaluate the competitor’s performance using a split scoring system as follows:

6203.1.1  Turn Judges
Five Judges shall independently evaluate the competitor’s performance based upon the criteria as stated in JH 6204.1 (Turns) and 6204.2 (Deductions). The high and low Turns scores and the high and low Deductions scores shall be discarded and the remaining six scores shall be added together to form the combined score for Turns including Deductions (note that Deductions scores are always negative).

6203.1.2  Air Judges
Two Judges shall independently evaluate the competitors aerial maneuver(s) based upon the criteria as stated in JH 6204.3. The scores will be averaged for a total air score and truncated to two decimal places.
Total Air Score = 10.0 (max) x 2 jumps = 20.0 (max) per run

6203.1.3  Time
The speed score shall be calculated according to JH 6204.4.

6203.1.4  Total Score
The average of the two air scores is added to the total of the counting turns/deductions scores to get the competitor’s total Judges’ score. The speed score shall be added to the total Judges’ score to determine the competitor’s complete Moguls score.
5 Judge Format

The Judges will evaluate the competitor's performance using a split scoring system as follows:

Turn Judges

Three Judges shall independently evaluate the competitor's performance based upon the criteria as stated in JH 6204.1 (Turns) and 6204.2 (Deductions). The three scores shall be added together.

Total Turns Score = 20.0 x 3 judges = max. 60.0 points

Air Judges

Two Judges shall independently evaluate the competitor's aerial maneuver(s) based upon the criteria as stated in JH 6204.3. The scores will be averaged for a total air score and truncated to two decimal places.

Total Air Score = 10.0 (max) x 2 jumps = 20.0 (max).

Time

The speed score shall be calculated according to JH 6204.4.

Total Score

The average of the two air scores is added to the total of the three turn/deduction scores to get the competitor's total Judges' score. The speed score shall be added to the total Judges' score to determine the competitor's complete Mogul score.

Judging Criteria

Turns (60% of the Score) Min. = 0.1 / Max. = 20.0

Turns, in terms of judging criteria, refers to a technical evaluation of how well a competitor turns through the moguls. They refer to rhythmic changes in direction of travel to either side of the fall line, utilizing an aggressive, controlled technique. The competitor shall be judged from crossing the start line until crossing the finish line.

Technical considerations

Full control must be gained after every jump, resulting in controlled turns. It is important to register the direction of the landing. Air is scored until return to control; turns begin scoring when the initial landing direction has been changed, so the changeover between the scoring of airs and turns judges is when the skis change their initial direction into a turn.

Fall Line

Skiing in the fall line is considered the shortest way from the Start to the Finish. To avoid deductions for fall line deviations, the competitor must stay in the selected fall line out of the start gate. Competitors will receive score deductions for fall line deviations as noted in JH 6204.2 including drifting in Air maneuvers. Landing on the center of the mogul is a deviation from the fall line.
6204.1.2 Carving

6204.1.2.1 General

A pure carved turn is one in which the tail of the ski follows precisely the track made by the ski tip. The upper ski is edged inward at the entrance to the turn, with the competitor’s weight placed well forward on that ski. This maneuver flexes the ski into a curve whose radius is determined by the angulation of the ski, by its side cut and by the size of the bending moment acting on the ski. The other ski needs to move in the same fashion to produce a similar curve with the weight on its outer edge. Reverse camber of the ski (flex) can also be increased by flexion of the edged ski tip into the face of the mogul or rut.

As shown in the figure below, in a purely carved turn there is no skidding/lateral sliding, and the only snow resistance present is the very small gliding friction between ski base, edge and snow. As a result of this minimal level of friction between ski and snow, the speed reduction of the competitor is optimized and fully under the control of the competitor.

Turn radius should reflect the deflection required in relation to the gradient of the slope. Excessive deflection across the hill impacting the face of a mogul is a form break as it results in excessive braking and poor ski line. Turn shape and deflection should vary according to the spacing between the moguls.

6204.1.2.2 Body Position for Carved Turns

- A properly carved ski requires less effort to work, and gives higher levels of control and stability.
- The turn is initiated with pressure as the knees and ankles/feet roll the skis onto edge and extension begins.
- At the middle of the turn (when the ski is edged and the tip is pointing down the fall-line) the ski tips contact the face of the mogul.
- Absorption is used to maintain balance and control pressure in the skis and should match the shape and size of mogul to optimize snow to ski contact.
- Rotations in the upper legs are minimal, feet remain under the body (shoulders and hips) in both fore-and-aft and lateral planes, and knees remain flexed.
- Legs should be together or in a consistent position throughout the run.
- Breaks in balance and separations in position are inefficient turns.
- Angulation of the lower leg controls the radius of the turn. Timing of the initiation dictates how deep the feet go into the rut.
- Movements should be symmetrical and equal side to side, specifically:
  - Timing and placement of pole plants (double pole plant is a deduction)
  - Arm movements (little movement is preferred but if there is movement it should be equal)
  - Shape of turns: do the turns adjust to the gradient of the slope and the size and disposition of the moguls
  - Position of the feet in relation to the body (do the feet move further outside the body’s midpoint on one turn)
Specifically movements should be symmetrical and equal side to side.

Timing and placement of pole plants is a significant factor (double pole plant is a deduction)

6204.1.2.3 Illustrations / References

Illustration of a purely carved turn

Illustration of a skidded turn by contrast; the figure below illustrates a turn that is executed while skidding or sliding laterally.

The path "swept" by the skis is the result of ploughing the base of the skis through the snow at the face of the mogul. This happens when the competitor turns his skis too sharply into the turn and the ski impacts the face of the mogul on the sidewall and base of the ski, as opposed to the tip of the ski on edge. A skidding ski pivots across the path of the turn.

However, in some cases, a degree of steering or skidding during initiation is unavoidable, but the key is to minimize snow resistance from skidding during the remainder of the turn. This is in order to maintain correct speed control and balance during an accurate carved turn.

6204.1.3 Absorption and Extension

The competitor should follow the shape of the mogul through absorption from the start until the top of the mogul. Extension starts right after the top of the mogul. Extension also follows the shape of the mogul. Pressure between skis and snow should remain the same during absorption and extension, absorbing as the competitor moves up and extending as the competitor moves down.
Additionally, the competitor should aggressively utilize the moguls to assist initiation of turns, rather than waiting for the moguls.

**6204.1.4 Upper Body**

The head should remain still, facing downhill. The chest should also stay straight and natural. Hands stay in front of the body in a natural position. Pole plants should be light and wrist movement goes forward.

**6204.1.5 Mogul ranges**

<table>
<thead>
<tr>
<th>Quality</th>
<th>Score Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>18.1 – 20.0</td>
</tr>
<tr>
<td>Very good</td>
<td>16.1 – 18.0</td>
</tr>
<tr>
<td>Good</td>
<td>14.1 – 16.0</td>
</tr>
<tr>
<td>Above Average</td>
<td>12.1 – 14.0</td>
</tr>
<tr>
<td>Competent</td>
<td>10.1 – 12.0</td>
</tr>
<tr>
<td>Below average</td>
<td>8.1 – 10.0</td>
</tr>
<tr>
<td>Poor</td>
<td>4.1 – 8.0</td>
</tr>
<tr>
<td>Very poor</td>
<td>0.1 – 4.0</td>
</tr>
</tbody>
</table>

**6204.1.6 Mogul course**

At a course with 11 control gates including start and finish gate (each control gate counts 1/10 of the course)

**6204.2 Deductions of Turns Points**

The “Deductions” category is used for all errors

- **6.0** Any complete stop
- **4.1 – 5.9** Complete fall without stop or interruption/significant sliding down fall line or across hill to nearly a complete stop
- **2.9 – 4.0** Hard touchdown or front roll without stop or interruption/sliding significantly reducing downhill momentum
- **2.1 – 2.8** Medium touchdown without stop
- **0.1 – 2.0** Light touchdown without interruption, small stumbles, fall line deviations, speed check, double pole plant, shooting

**Definitions**

- Small stumbles,
- Fall line deviations refer to JH 6204.2.1
- Speed check
- Significant sliding Sections of course not skied. Skis are perpendicular to the fall line and are typically sliding with no carving action. (max 2.0 points per gate)
- Shooting Sections of course not skied. Skis remain flat and track straight down the fall line. (max 2.0 points per gate)
- Light Touchdown: Momentary touch with one or both hands.
- Medium Touchdown: Touch with hips or arm(s).
- Hard Touchdown: Back or side slap, or front roll.
- Complete fall: Full body contact, no weight on skis.
- Complete Stop: A complete stop for any reason.
Notes

1. A competitor loses control and rides the tails of her skis with no turns for 2 full control gates. A competitor may get partial deductions for turning minimally within a section vs making no turns at all in a section ("shooting")

*Deduction= 4.0 (2.0 x control gates for shooting)*

2. A competitor loses his balance after a jump and does a back slap then immediately continues skiing with no fall line break.

*Deductions = 2.9 – 4.0*

3. A competitor has a complete fall and slides two control gates then comes to a full stop, and then continues skiing.

*Deductions = 5.3 + 4.0 (2.0 x control gates for not skiing) +6.0*

6204.2.1 Other deductions

Deductions in turns points are for specific errors on the course.

Deductions will also be used for deviations from a fall line as noted below:

Fall line deviations (leaving the fall line) are based on the guidelines of a 1.6 deduction for any complete line deviation.

Other deductions may be taken for factors that caused the line deviation.

Fall line deviations may be more or less than a complete line change and will be scored accordingly. A competitor who returns to a fall line immediately after deviating will NOT receive a deduction for a second line deviation. If the line deviation is more than one line, the competitor may return to either line without further deduction. In the image above, the competitor starts at position 0 and deviates to position 2 and would receive a deduction of 3.2 (1.6 x 2). The athlete may immediately return to position 3 or 4 without further deduction.

*Deductions = 1.2 + 3.2 + 4.0 = 8.4 ➔ 1.2 for stumble + (2 x 1.6 =) 3.2 (for each complete line deviation) + 4.0 (2.0 x2 control gates for not skiing)*

6204.3 Air (20% of the Score) Min. = 0.0 / Max. = 10.0 (per jump)

The scoring of air is broken into two parts, Form and Difficulty. The maneuver will be evaluated for form out of 10.0 with a degree of difficulty multiplier, based on the maneuver(s) performed ➔ Refer to 6204.4.5.
6204.3.1 Jump groups

Different jump groups in Moguls are listed below (with examples):

1. **Flips (somersault)** Inverted flips include all jump somersaults. Only single inverted flips are allowed.

2. **Loop** Include all loop jumps. Only single loops are allowed.

3. **Straight Rotations (helicopters/360,720)**. Straight Rotations include all traditional single and multiple rotations (helicopters/360/540/720…). A straight rotation maneuver can also include up to three (3) positions and/or one (1) grab.

4. **Off Axis (D-spin, Cork, Misty)** Off Axis includes all traditional single and multiple off axis maneuvers (360/540/720…)

   The Off Axis jumps are grouped in three categories:
   - **A** = D-spin, Cork, and Loop full
   - **B** = Rodeo, Flat spin
   - **C** = Misty, Bio

5. **Upright (Spread Eagle, Kosak, Zudnick, Daffy, Back Scratcher, Mule Kick, Iron Cross, Twister, etc.: Singles - Quints)**. Upright jumps include all jumps performed in the vertical axis without rotation. These include the traditional upright jumps (twister, spread, daffy etc.). A competitor can perform 1 (single) to 5 (Quint) upright maneuvers. Any more than 5 will not be counted. There is no bonus for any position modifiers (i.e. grabs etc.) in upright jumps.

6204.3.2 Form

Priorities to judge form and position of the jumps in mogul skiing are set as follows:

First  Quality (Form, Landing)

   **NOTE:** Air in moguls will be judged until the competitor is in full control.

Second Air (Height and Distance)

Third Fluidity. (Speed check, etc.)

   Fluidity is the ability of the competitor to maintain the rhythm of turns prior to the jump, including the initiation for take-off.

When judging form for all jump groups (uprights, flips, off-axis, etc.) the primary factor for evaluation is the “Purposeful Motion” utilized by the competitor.
**Purposeful motion means:**

- Athleticism displayed
- Control
- Balance
- Continuity of Motion

All jumps, including traditional jumps (such as uprights and vertical axis rotations) and new jumps (such as off-axis rotations), will be evaluated using the Purposeful Motion criteria.

Maximum raw point allotment: 10.0 for form, with DD max. 10.0 / jump.

*Note:* Jumps must receive at least 0.1 form points to receive difficulty multiplier.

The height of the jumps should be related to the weight point of the body (not to the head, or top or body).

6204.3.2.1 Axis

Axis will be evaluated as an independent component of the maneuver being judged and is not related to the execution *(form)* of the jump. In order to achieve a maximum point value, the maneuver must be performed within a pre-defined axis range. If the maneuver being attempted is performed outside of the acceptable axis range, it will be assessed a deduction or a category change.

6204.3.2.2 Determining Proper Axis

Axis should always be assessed with relation to the position of the upper body or torso at the apex of the jump.

The legs and feet are not a clear indicator of axis as the lower torso can be manipulated into a position not related to the axis of the maneuver simply by bending at the knee. In order to manipulate the direction of the upper body, the athlete must hinge at the waist, altering the axis of the maneuver in the process.
6204.3.2.3  Proper Axis for upright and Inverted Jumps

6204.3.2.4  Proper Axis for Off Axis Jumps
6204.3.2.5 **Axis Deductions and Category Change**
Refer to diagrams shown in 6204.3.2.3 & 6204.3.2.4 above for the following:

- If the maneuver is performed within the green zone
  - the jump may receive maximum points.

- If the maneuver is performed within the yellow deduction zone
  - deduct 0.1 to 3.0 points.

- If the maneuver is performed within the red zone
  - deduct 3.1 to 6.0 points. The Jump ID can be changed to reflect the zone in which the jump was performed.

Ex. If the athlete is performing a 7opA (dspin) and ends up completely inverted, then the jump may be coded as a bF.

6204.3.3 **POINT GUIDELINE**

| Excellent Jump | 8.1 – 10.0 |
| Good Jump      | 6.1 – 8.0  |
| Average Jump   | 4.1 – 6.0  |
| Poor Jump      | 2.1 – 4.0  |
| Very Poor Jump | 0.1 – 2.0  |

6204.3.4 **Full control**

Full control must be gained after every jump, resulting in controlled turns. It is important to register the direction in the landing. Air is scored until return to control; turns evaluation continues when the initial landing direction has been changed, so the changeover between judges occurs when the skis make their initial change of direction into a turn. If there is no change of direction after landing, turn judges shall evaluate the competitors’ performance landing until the end of the run.

6204.3.4.1 **Falls after Jumps / Deep Landings**

- The jump is judged up to a controlled landing.
- If the landing is very poor or completely missed the jump score is affected.
  - The jump may only receive a maximum score of 5.0.
- Falls and touchdowns also affect the turn score.

6204.3.5 **Difficulty**

Jumps will be identified by a specific code. This code will identify the basic jump group and additional difficulty components that make up the difficulty formula.

The difficulty of the upright maneuver will be established in accordance with the Difficulty table, using a 'Base DD', enhanced by the values established for the jump components. The table of jump codes and Degree of Difficulty values is maintained and published on the FIS web site.
6204.3.6 Jump Codes

Moguls jump codes are created by adding individual codes together to form a jump. Each letter code represents a value and these values are added together to calculate the Degree of Difficulty (DD). The table of jump codes and Degree of Difficulty values is maintained and published on the FIS web site.

6204.3.7 Position Modifiers

<table>
<thead>
<tr>
<th>Modifier</th>
<th>Code</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>p</td>
<td>add 0.03</td>
</tr>
<tr>
<td>For 2 positions</td>
<td>pp</td>
<td>add 0.06</td>
</tr>
<tr>
<td>For 3 positions</td>
<td>ppp</td>
<td>add 0.09</td>
</tr>
<tr>
<td>Grab</td>
<td>G / g</td>
<td>see notes below</td>
</tr>
<tr>
<td>Layout position</td>
<td>L</td>
<td>add 0.02</td>
</tr>
</tbody>
</table>

NOTES:

- Up to three positions and one grab can be added to a jump. All positions (p) are to be listed first, then the grab (g) or (G) (e.g. bLpg, bLpG or bPpppg not bLgp or bPpgpp).
- The layout position modifier is only used after a half twist if performed in the layout position e.g. bHlw for a Back/Half (layout) with switch landing.
- Switch Take-off and Landing
  
  A competitor can take-off and/or land in either direction (i.e. forwards or backwards). If a take-off or landing is backwards it is known as switch. Switch take-off or landing is notated using sign “w” at the beginning of the jump code for a switch take-off and/or at the end for a switch landing.
  
  The switch “w” modifier has a value of 0.06 each time it is used. So if a competitor performs a jump with a switch take-off and landing there would be a “w” at the beginning and end of the jump code and you would add a value of 0.12 to the maneuver.

- A “g” shall be assigned to any grab that is from mid ski to the boot (except for cross body grabs).
- A “G” shall be assigned to any grab from beyond mid ski to the tail or tip, including cross body grabs (i.e., mute, japan, critical).

NOTE: Grabs cannot be performed as a single maneuver. They can only be incorporated within a rotational maneuver like inverted flip, straight rotations and off axis maneuvers. Grabs performed must be identifiable as a Grab. A grab should be held, at a minimum, so it is presented clearly to the judges.

An attempted grab will be considered as a grab in the coding of the jump. A poor or missed grab will be counted as a grab but the fact that it may have been missed or not presented clearly to the judges will affect the overall package of the jump and scored accordingly. When one element of a jump is very poor or barely done, the whole score will reflect the combined effort and substantially
reflect the missed grab. An attempted grab will be coded according to the way it was attempted.

**For example:**

Imperfectly executed grabs will result in deductions as follows;

1. If the grab is not properly held but the hand makes positive contact with the ski, deduct 0.5 to 1.0
2. If the hand barely makes contact or misses but the correct position is held, deduct up to 1.5.
3. If the grab and the position is missed completely, deduct up to 3.0.

**6204.3.8 Repeats**

Every competitor must perform two different jumps in order for two jumps to count. If a jump is repeated, only the better scoring jump of the two will count.

Only identically performed jumps will be considered repeated jumps, with the exceptions noted below. “Two different jumps” are defined as:

**Inverted Flips:** Allow only one (1) jump in this category per run unless there is a different direction in initiation (front vs back) or rotation added (straight over jump vs full twisting).

<table>
<thead>
<tr>
<th>Can do</th>
<th>Can’t do</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Jump</td>
<td>back full</td>
</tr>
<tr>
<td>Second Jump</td>
<td>front tuck</td>
</tr>
</tbody>
</table>

**Loop:** Allow only one (1) jump in this category per run.

<table>
<thead>
<tr>
<th>Can do</th>
<th>Can’t do</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Jump</td>
<td>loop pike</td>
</tr>
<tr>
<td>Second Jump</td>
<td>back full</td>
</tr>
</tbody>
</table>

**Off Axis:** Allow the same jump from the same category if there is a different primary axis of rotation, front or back, or there is a different secondary axis of rotation by 180 degrees or more (same system as with straight rotations).

<table>
<thead>
<tr>
<th>Can do</th>
<th>Can’t do</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Jump</td>
<td>7o 7oA/B</td>
</tr>
<tr>
<td>Second Jump</td>
<td>3o 7oC</td>
</tr>
</tbody>
</table>

**Straight Rotations:** If two (2) jumps are done from this category they must differ by 180 degrees or more.

<table>
<thead>
<tr>
<th>Can do</th>
<th>Can’t do</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Jump</td>
<td>360</td>
</tr>
<tr>
<td>Second Jump</td>
<td>720</td>
</tr>
</tbody>
</table>
**Upright**: Must have a different number of moves (i.e. double spread, triple twister)

<table>
<thead>
<tr>
<th></th>
<th>Can do</th>
<th>Can't do</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Jump</td>
<td>TST</td>
<td>DTS</td>
</tr>
<tr>
<td>Second Jump</td>
<td>TS</td>
<td>TTT</td>
</tr>
</tbody>
</table>

**6204.3.9 Exceptions and Notes:**

1. When grabs are performed in jumps, all grabs are considered to be the same for purposes of the repeat rule. For example, a 360 mute grab is a repeat of a 360 tail grab. Also there is no difference between grabs made as "g" or “G”. All Grabs are classified as the same maneuver: a 720 off axis with 2 grabs is a repeat of another 720 off axis with 2 different grabs, and is also a repeat if the grabs are merely reversed in order or done once as “g” and then as “G”.

2. When positions are performed in flips, loops, or vertical or off axis rotational maneuvers, the location of the position within the jump does not change the jump.

3. Two off-axis jumps are considered to be repeats unless there is a different primary axis of rotation, front or back, or there is a different secondary axis of rotations by at least 180 degrees. Competitors can do A and C or B and C combinations.

4. Positions with grabs or any attempt to grab are considered to be grabs for the purpose of this rule.

**6204.4 Speed (20% of the Score)**  
**Min. = 0.0 / Max. = 20.0**

Speed is simply the amount of time taken to complete the run. Time shall be taken from the moment that the competitor leaves the starting gate until they cross the finish line. The points awarded for speed will be called time points and calculated. ➔**Refer to ICR 4203.3**
6300 DUAL MOGULS

6301 Definition
The Dual Mogul competition shall consist of elimination rounds where pairs of competitors compete against each other. Each loser is eliminated and each winner advances to the next round until a final result is achieved. The competition will take place on a steep, heavily moguled course, stressing technical turns, aerial maneuvers and speed.

6302 Pairings
Refer to ICR 4305

6303 Scoring Procedures
In Dual Mogul Format, each judge shall determine which competitor more fully exhibits the requirements set forth in Rule JH 6204, Judging Criteria for Moguls, and indicate such selection by the Dual Mogul system, corresponding to the course on which such competitor competed.

The loser shall be eliminated and the winners move on to the next round until the final placing is determined. See JH 6304 for additional event procedures.

6304 Judging Procedure, Dual Mogul Format

6304.1 Dual Moguls
The judging criteria used in the dual mogul elimination format shall be the same as set forth in Rule JH 6204.1 "Turns" and Rule JH 6204.3 "Air". Speed is a comparison of relative time as per rule JH 6304.4.

6304.1.1 5 Judges Format
A panel of five (5) judges shall administer scores based upon specific duties for each judge as follows:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Judges</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>One (1) Judge</td>
</tr>
<tr>
<td>SPEED</td>
<td>One (1) Judges</td>
</tr>
<tr>
<td>TURNS</td>
<td>Two (2) Judges</td>
</tr>
<tr>
<td>OVERALL PERFORMANCE</td>
<td>One (1) Judge</td>
</tr>
</tbody>
</table>

J1    J2    J3    J4    J5
Turns  Turns  Speed  Air    Overall

Speed is a comparison of relative time as per rule JH 6304.4.
6304.1.2 7 Judge Format
A panel of seven (7) judges shall administer scores based upon specific duties for each judge as follows:

<table>
<thead>
<tr>
<th>AIR</th>
<th>- Two (2) Judges</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEED (Turns tie break)</td>
<td>- One (1) Judge</td>
</tr>
<tr>
<td>TURNS</td>
<td>- Four (4) Judges</td>
</tr>
</tbody>
</table>

*Speed is a comparison of relative time as per rule 6304.4. The Turns score delivered by the Speed Judge shall be used only for the purpose of tie breaking within the provisions of Tie-Breaking 7 Judges Dual Mogul Format.*

6304.2 Dual Mogul System

6304.2.1 Scoring
Each judge will have a total of six possible votes to cast, with possible combinations of 5-0, 4-1, 3-2, 2-3, 1-4, or 0-5, for the red course vs. the blue course. This results in 25 or 35 possible votes to be cast as follows:

<table>
<thead>
<tr>
<th>7 Judges</th>
<th>5 Judges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turns #1:</td>
<td>5 votes</td>
</tr>
<tr>
<td>Turns #2:</td>
<td>5 votes</td>
</tr>
<tr>
<td>Turns #3:</td>
<td>5 votes</td>
</tr>
<tr>
<td>Turns #4:</td>
<td>5 votes</td>
</tr>
<tr>
<td>Air #1:</td>
<td>5 votes</td>
</tr>
<tr>
<td>Air #2:</td>
<td>5 votes</td>
</tr>
<tr>
<td>Speed:</td>
<td>5 votes</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>35 votes</strong></td>
</tr>
</tbody>
</table>

A scorekeeper will be on the Judges' stand assisting the Head Judge to add up all the votes. The result will be written in the protocol and announced immediately. The winner of each match will be the competitor who received the simple majority of votes.

The scorekeeper is also responsible for recording all decisions of each judge on a protocol form.
6305 Special Procedures: Dual Moguls

6305.1 Number of Aerial Maneuvers

All courses will be two jump courses for international competitions. The recommended number of aerial maneuvers shall not restrict the competitor to the stated amount, but represents the number of aerial maneuvers that will receive an evaluation.

6305.2 Scoring Air in Dual Moguls

6305.2.1 Jumps evaluation

Air Judges evaluate jumps based on the scoring criteria from single moguls (Quality, Air and Spontaneity), as well as difficulty and variety. Competitors may repeat jumps but judges will consider variety in comparing the two competitors. Variety reflects a different number of maneuvers and different types of maneuvers. A competitor who repeats (identically) the same manoeuvre during a run will receive a deduction of two (2) votes per Air Judge; A competitor who performs two different manoeuvres from the same scoring Category will receive a deduction of one (1) vote per Air Judge. Scoring category as defined in 6204.3.8 – single moguls repeat rule.

Time Differential for Speed

After the time difference between the competitors has been calculated. Judging Points will be awarded as follows:

- Both competitors are within 0.74 seconds = 3/2
- The time difference is between 0.75 and 1.49 seconds = 4/1
- The time difference is equal to or greater than 1.5 seconds = 5/0

Tie Breaking Dual Moguls

Tie Breaking 5 Judge Format

All ties can be broken in the 5 Judges Dual Mogul Format. If there is a tie in Speed, the Overall Judge has 4 votes resulting in 19 votes possible. If there is a tie in Air (neither competitor jumps), the Overall Judge has 4 votes resulting in 19 votes possible. If there is a tie for both speed and air, the Overall Judge has 3 votes resulting in 13 votes possible.

Tie Breaking 7 Judge Format

Should a tie occur, the competitor with the greater number of votes from the Turns judges shall be ranked higher; if still tied, the competitor with greater number of Turns judges in favor shall be ranked higher.

If still tied, the Turns Tie Break Judge (J7/Speed) shall determine the result by giving a Turn score.
Crossing the center line (DNF)

A competitor has crossed the center of the dual mogul course when both feet have completely crossed over the center line and into the opposing course.

See diagram below:

![Diagram showing crossing the center line (DNF)](image-url)
Appendix A: General Description of Jump Definitions

1. Basic Jump Definitions

Center of Balance  Is located at the center of mass, where the three axes intersect.
Balance Point     Is where the forces on the body are equal to the forces created by the dynamic body actions.
Body Segments   The body is divided into several sections; the upper body and lower body are two of the major segments.
Vertical Axis   Runs from the top of the body to the feet, through the balance point.
Horizontal Axis Runs from side to side, through the balance point.
Lateral Axis    Runs from the front of the body to back of the body, through the balance point.
Tilted           One or more of the axes of rotation are less than 90 degrees to the direction of the rotation.
Off Axis         The rotation around the primary axis is tilted off of the axis.
Direction of Travel The primary direction of travel is in the horizontal plane and through the balance point. There are lateral movements around the body segments during flexion and extension.
Plane            There are three planes which the body passes through during dynamic movement: the vertical plane, lateral plane and horizontal plane.
Flexion          decreasing the angle between the joint or body segments.
Extension        increasing the angle between the joint or body segments.
Rotation         increasing or decreasing the different angles between the body segments.
Degrees of Rotation The number of rotations or part of rotations around an axis expressed in degree of rotation.
Primary Axis     the body actions to rotation on the first axis.
Secondary Axis   the body actions to rotation on an additional axis.
Grabs            With the body action of a flexion, a section or part of the ski is grabbed by the hand or hands.
Holds            With the body action of a flexion, a section or part of the ski or skis are grabbed by one or more hands and then held for a duration.
2. **Back Flip:** One complete rotation in the backwards direction around the horizontal axis.

**Back Tuck:** The take-off is initiated both upwards and backwards which starts a primary rotation on the horizontal axis. The upper and lower body then extends. There is a flexion at the waist between the upper body and lower body to the tuck position. The body rotates backwards a total of 360 Degrees, then the skiers extend and prepares for the landing.

**Back Layout:** The take-off is initiated both upwards and backwards which starts a primary rotation on the horizontal axis. The upper and the lower body extends. The body rotates backwards a total of 360 degrees, then the skier flexes and prepares for the landing.

**Pike:** A body action that starts from an extended position then there is a flexion at the waist, with legs being kept straight.

**Free Position:** Could also be called the ‘puck’ position which is in-between a layout and a tuck position, mainly seen in off axis rotations.

**Half Twist:** A 180° rotation of the body around its vertical axis in a “free” position, except in the half out movement the body must be laid out.

**Twisting:** Rotation around the primary and or the secondary axis. All twists (including multiple twists in one somersault) are performed in a layout position.

**Back Full:** The take-off is initiated both upwards and backwards which starts a primary rotation on the horizontal axis. An additional axis of rotation on the vertical axis is initiated with the rotation of the upper body. The upper and lower body then extends straight. There is a full extension at the waist between the upper body and lower body continues on both axes. The body rotates backwards a total of 360 degrees on the primary axis and rotates 360 degrees on the secondary axis, then the skiers extends and prepares for the landing.

**Double Full:** The take-off is initiated both upwards and backwards which starts a primary rotation on the horizontal axis. An additional rotation on the vertical axis is initiated with the rotation of the upper body. The upper and lower body then extends straight. There is a full extension at the waist between the upper body and lower body continues on both axes. The body rotates backwards a total of 360 degrees on the horizontal axis and 720 degrees on the vertical secondary axis, then the skiers extends and prepares for the landing.
3. **Front Flip**: One complete rotation in the forward direction around the horizontal axis.

**Front Tuck**: The takeoff is initiated both upwards and forwards which starts a primary rotation on the horizontal axis. The upper and lower body then flexes. There is a flexion at the waist between the upper body and lower body to the tuck position. The body rotates forwards a total of 360 degrees, then the skier extends and prepares for the landing.

4. **Side Flip**: One complete rotation, in the sideways direction around the lateral axis.

**Loop**: The takeoff is initiated both upwards and sideways which starts a primary rotation in the lateral axis. The upper and lower body then extends either straight on into the free position and rotates. The body rotates a total of 360 degrees, then the skier flexes and prepares for the landing.

**Loop Full**: The take-off is initiated both upwards and sideways which starts a primary rotation in the lateral axis. The upper then also starts to rotate on the secondary vertical axis, then extends into the free position. The body rotates a total of 360 degrees in the lateral axis and 360 degrees in the vertical axis. Then the skier flexes and prepares for the landing.

5. **360**: One complete rotation around the vertical axis with a straight body position.

**360**: The takeoff is initiated both upwards and vertically which starts a primary rotation in the vertical axis. The upper and lower body then fully extends straight and rotates. The body rotates a total of 360 degrees, then the skier flexes and prepares for the landing.

**720**: The takeoff is initiated both upwards and vertically which starts a primary rotation in the vertical axis. The upper and lower body then fully extends straight and rotates. The body rotates a total of 720 degrees then the skier flexes and prepares for the landing.

**1080**: The takeoff is initiated both upwards and vertically which starts a primary rotation in the vertical axis. The upper and lower body then extends and rotates. The body rotates a total of 1080 degrees the skier then flexes and prepares for the landing.

6. **7o (general)**: The takeoff is initiated both vertically and upwards or vertically and downwards which starts a tilted primary rotation off of the vertical axis. The upper body rotates in the direction of travel and lower body follows. Then the body flexes into the free position and continues to rotate. The body rotates and rolls a total of 720 degrees. The skier then flexes and prepares for the landing.

**Cork7**: The takeoff is initiated both vertically, upwards and to the side which starts a tilted primary rotation off of the vertical axis. The upper body leads and lower body follows then flexes into the free position and continues to rotate. Then
body rotates and rolls a total of 720 degrees. The skier then flexes and prepares for the landing.

**Misty 7:** It starts with forward rotation on the horizontal/ diagonal axis (where the horizontal axis is primary axis and the vertical axis is secondary axis) there is a full twist and half completed. Look for the rotation so that the head goes down and under while the hips go over the horizon.

**Rodeo 7:** The takeoff is initiated both vertically, upwards and to the side which starts a tilted primary rotation off of the vertical axis to 180 degrees and moves into the free position (back is facing downhill). The upper body leads and lower body follows then continues to rotate 540 degrees. The skier then flexes and prepares for the landing.

7. **Grabs:**

1st Category of GRABS (‘g’) shall be assigned to any grabs that are from Mid ski to the boot (except for cross body grabs).

**Safety:** The body in Puck Position, a hand come and holds the same side ski, just under the boot.

**Liu Kan:** It’s a safety grab with the free leg straight. One hand holds the same side of the ski, just under the boot. At the same time the other leg is straight.

2nd Category of GRABS (‘G’) shall be assigned to any grab from beyond mid ski to the tail or tip, including cross body grabs. This 2nd category is more difficult because of the location of the grab. The skier loses time to execute the grab because the grab location is farther from the boot or across the body.

**Japan:** A hand goes from the back to take the opposite ski by its inside just behind the boot.

**Mute:** In a cross skis position, a hand takes the opposite ski near the front binding and pulls it up. At the same time the back of the skier is in an extended position.

**Tail:** In a cross skis position, a hand takes a ski behind the binding and pushes it to the external side.

**Truck Driver:** The body is in a Pike position with legs straight. Both hands pull the two ski tips with one tip in each hand. It’s like the skier has a wheel in one’s hands.
8. **Upright Maneuvers**

**Spread Eagle:** After take-off the outstretched arms and legs are extended out to the sides away from the body. The legs should be spread to form a minimal angle of 90° when viewed from the front. The skis should be parallel to each other (tails and tips equally spread) and 90° to the body. The upper body should remain straight and upright without any noticeable forward bend at the waist.

**Zudnik:** A Nordic type jump in which the upper body is bent roughly 90° at the waist by bringing the upper body forward and down and the lower body forward and up. The toes rise up towards and in the vicinity of the competitor’s chin. The skis should remain close together and parallel and the head remains upright.

**Twister:** The skis are twisted a minimum of 90° to the fall line. The skis should remain parallel to each other, together and 90° to the body. The hands and arms may move to counter the twisting of the skis.

**Daffy:** After take-off, one leg should be brought up and forward while the other leg is simultaneously brought backwards and up, resulting in a 180° split position in which the front ski is parallel to the back ski, skis pointing straight up and down.

**Back Scratcher:** The skis’ tails are brought back and up to a minimum angle of 90° to the horizontal when viewed from the side, knees bent, hips forward and a slight backwards counter motion of the upper body (shoulders). Legs must be together and skis parallel.

**Mule Kick:** The Mule Kick is a Back Scratcher with a 45° twist of the hip to the side.

**Iron Cross:** This is a combination of the back scratcher and the tip cross. The skis are crossed in a 90° angle while pointing to the ground at a 90° angle. The maneuver is held with the upper body in the neutral position until the skis are extended to the landing hill.

**Kosak:** A Kosak is a combination of a Spread Eagle and a Zudnik. Arms can be held in different ways; in front, between the skis, at the side, or a competitor may grab the ski tips. Legs are simultaneously raised and spread in front and to the side of the body. Legs should approach the horizontal level and upper body is brought forward to counter inertial forces of legs being raised. Skis should achieve a vertical position and be symmetrical.

*Multiple Maneuvers:* Any combination of the above maneuvers. These must exhibit the full requirements of each of the individual maneuvers included in the combination. For multiple uprights the body must pass through the standard upright position (legs straight and together, skis parallel) before performing the next maneuver.