Alpine Canada Alpin
National Officials Program
Level II Certification

November 1st, 2017
INTRODUCTIONS

NAME:

CLUB:

INVOLVEMENT IN RACING:
- Racer, Official, Parent etc.?

WHY THE LEVEL II OFFICIALS COURSE:

EXPECTATIONS OF THE COURSE:
AGENDA

• INTRODUCTION - 30 min
• RACE ORGANIZATION - 30 min
• RACE SECRETARIAT - 30 min
• JURY DETAIL - 30 min
• RULES - 30 min
• COURSES & RULES - 60 min
• SECURITY & RACE COURSE - 90 min
• GATE JUDGE - 15 min
• TIMING - 30 min
• POINTS, PENALTY & RESULTS - 30 min
• ADDENDUM - 15 min
• EXAM & REVIEW - 75 min
OBJECTIVES

• To prepare participants to assume leadership roles within alpine and para-alpine race structures.

• Understanding of race organization
  – Race organization officials – roles and responsibilities
  – Race structure – Administration, Start, Course, Finish, Timing, Results
  – Race protocols:
    • entries, team captains’ meeting, draw, course inspection, race jury / ROC, protests, jury meeting, timing, results, points
Overview

• Sanctioning Bodies
• Competitive Racing Levels
• Officials’ Program
World Sport Organization

- World governing body
- Rules, standards, sanctions, penalties
- World Cup
- World Championships
- Continental Cups
- Olympic Winter Games with/for IOC
www.paralympic.org/alpine-skiing
NSO

- National Sports Organization - ACA
- National governing body
  - Alpine, Para-alpine, Ski/Snowboard Cross (in partnership with Snowboard Canada)
- National Ski Teams
- National Championships
- Rules, standards, sanctions, penalties (FIS compliant and ACA)
- Leadership for sport development at national level (racing, coaching, officiating)
Divisions / Zones

• Local governing body
• Local Teams
• Rules and Standards, sanctions, penalties (FIS, ACA and PSO compliant)
• Leadership for sport development at local level (racing, coaching, officiating)
Racing Levels

• **Non-Points Races**
  - All age groups, calendared by divisions with PSO
    - Club specific ‘house-league’ and ‘fun-n-glory’ programs usually are not under PSO sanction

• **National Points Races**
  - U14 and older, calendared at ACA by PSO
  - Competitive stream to qualify for provincial and national championships

• **FIS Races**
  - U18 and older, calendared FIS by ACA
  - Competitive stream to qualify for provincial and national teams that compete at the Continental Cup and World Cup circuits
Officials Program

• Supporting the athlete’s race program
• Risk Management (security) first
• Fairness Always
• Reliable Race Results
Officials Program

- 4 Levels of Officials
- Parallel development - Race Administration, Timing/Results, Race Operations, Course, Jury
- 4 levels of Technical Delegates
Officials Program

- Classroom study and examination
- Experience
- Certification
- Approved Course Conductors
- Approved TD Examiners
# Officials Job Categories

<table>
<thead>
<tr>
<th>Administration</th>
<th>Event Quality</th>
<th>Course</th>
<th>Timing</th>
<th>Jury</th>
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<tr>
<td>Race Organizing Committee</td>
<td>Chief of Race (also Jury Member)</td>
<td>Chief of Course</td>
<td>Chief of Timing and Calculations</td>
<td>Technical Delegate</td>
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<td>Race Chair</td>
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<td>Chief of Gate Judges</td>
<td>Chief of timing</td>
<td>TD Candidate</td>
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<td>Chief of Administration</td>
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<td>Timer</td>
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<td>Secretariat</td>
<td>Chief of Event Quality</td>
<td>Chief of Equipment</td>
<td>Calculator</td>
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<td>Chief of Ski Area Relations</td>
<td>Recorder</td>
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<td>Accommodation</td>
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<td>Chief of Awards and Media Relations</td>
<td>Finish Controller</td>
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<td>Scoreboard</td>
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### Administration
- Race Organizing Committee
- Race Chair
- Chief of Administration

### Course
- Chief of Race (also Jury Member)
- Chief of Course
- Chief of Gate Judges
- Gate Judge

### Event Quality
- Chief of Event Quality
- Chief of Ski Area Relations
- Chief of Awards and Media Relations

### Timing
- Chief of Timing and Calculations
- Chief of timing
- Timer
- Starter

### Jury
- Technical Delegate
- TD Candidate
- Referee
- Assistant Starter
Race Organization

- Objectives
- Race Organization
- ROC Objectives
- Race Structure
Objectives

Ensures:

• Fastest racer to ski the course correctly wins.
• Consistent, secure course from start to finish, first forerunner to last racer.
• Accurate timing.
# Race Organization

<table>
<thead>
<tr>
<th>Role</th>
<th>Responsibilities</th>
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<tr>
<td>Race Chairman</td>
<td>Directs all non-technical committees from organization to completion of race.</td>
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<tr>
<td>Chief of Race</td>
<td>Responsible for all technical and security aspects of the race. Chairs the team Captain's meeting</td>
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<tr>
<td>Chief of Administration</td>
<td>In charge of all records, the draw, registration, bibs and results production and distribution.</td>
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<tr>
<td>Chief of Course</td>
<td>Supervises on-the-hill arrangements such as course preparation and maintenance, course marking including flags, dyeing and numbering, course clean up and works with Course Setter.</td>
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<tr>
<td>Chief of Timekeeping and Calculation</td>
<td>Supervises all timing, communications and calculations, plans and sets up timing and communication systems, oversees timers, starters, calculators, recorders and spotters.</td>
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<tr>
<td>Chief of Gate Judges</td>
<td>Organizes, instructs and is responsible for the Gate Judges.</td>
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<tr>
<td>Chief of Equipment</td>
<td>Responsible for obtaining all equipment required for the preparation and operation of the race.</td>
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<tr>
<td>Chief of Stewards</td>
<td>Responsible for control of spectator and recreational skiers and first aid coverage.</td>
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<tr>
<td>Chief of Event Quality</td>
<td>Responsible for coordinating the race with the Ski Area, arranging the awards and media promotion and relations.</td>
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</table>
Officials and more Officials

- Race Chairman
- Chief of Race
- Chief of Administration
- Chief of Course
- Chief of Gate Judges
- Chief of Timing & Calculations
- Technical Delegate
- Referee & Assistant Referee
- Start Referee
- Finish Referee
- Starter
- Assistant Starter

- Gate Judges
- Course Crew
- Electronic Timing Operators & Recorders
- Hand Timers & Recorders
- Runners
- Results Posters
- Course Setters
## ROC Objectives

<table>
<thead>
<tr>
<th>Course</th>
<th>Objective</th>
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<tbody>
<tr>
<td>Courses</td>
<td>Are secure, legal, fair, consistent</td>
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<tr>
<td>Competitors</td>
<td>Are qualified, properly seeded, informed, guided, controlled</td>
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<td>Timing</td>
<td>Is accurate, consistent throughout the race</td>
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<td>Results</td>
<td>Are accurate, prompt, available</td>
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<td>Documentation</td>
<td>Is accurate, complete and timely</td>
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<tr>
<td>The Race</td>
<td>Is safe, fair, fun, appropriated scheduled, timely</td>
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<tr>
<td>Procedures</td>
<td>Are consistent and uniform</td>
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There should be no individual advantages other than skiing smarts and physical performance.

Each competitor should have the opportunity for one - and only one - run on a proper, fair and consistent course.
Race Structure

The Organizing Committee
Non-Technical Aspects of Race

Race Chairman

Finance
Board/Lodging
Transportation
Publicity
Event Quality
Medical Aid

Security
Banquet
Sponsors
Etc...etc

Chief of Race

Race Committee
Technical Aspects of Race

Chief of Race ~ Chairman
Chief of Administration
Chief of Course
Chief of Gate Judges
Chief of Timing/Calculations
Chief of Equipment

The Jury
TD
Referee
Assistant Referee
Chief of Race

Jury Advisors
Start Referee
Finish Referee
## Race Synopsis

### Off Hill Activities

- Planning
- Publicity
- Race Notice
- Entries
- Team Captain’s Meeting
  - Info Distribution, Jury Selection, Draw, 1st Run Start List
- Bib Distribution

### On Hill Activities

#### Before The Race

- Course Preparations
- Check Communications
- Set 1st course
- Final Hill Preparations
- Timing Installations & checks

#### During The Race

- 1st Run Results
- Start List for 2nd run
- Ski Patrol, Stewards, Gate Judges, Timing Personnel, Post/Announce DSQ’s, Jury Decisions, Tear Down/Clean Up

#### After the Race

- Results
- Review or Recap
Checklist

- Early fall
- Four weeks prior to race
- Two weeks prior to race
- One week prior to race
- The day prior to race
- Evening before race
- Race day
- Key elements on race day
Race Secretariat

- Chief of Administration (Race Administrator / RA)
- RA Forms
- Team Captains’ Meeting
  - Entries, Draw, 1st Run Start List, Snow Seed
Race Secretariat

- Secretariat checklist
- List of supplies
- Race Notice
- Race entry form
- Team Captain’s meeting ~ checklist
- Draw Board
- Results

Chief of Administration
Team Captains’ Meeting
Team Captains’ Meeting

- Constitute the Jury
- Confirm entries
- Confirm representation
- Confirm seeding
- Execute the draw
- Present and confirm program
- Confirm timing and location of next TCM
Start Order

• One run race event
• Two run race event
  – 1\(^{st}\) run
  • Tie for 30th place
  – 2\(^{nd}\) run
• Snow Seed
• Starting order for FIS races (1\(^{st}\) & 2\(^{nd}\) run)
Snow Seed

• Extraordinary circumstances (when snowing)
• In advance of the race the Jury may change the start order in DH, SG, GS
• 6 competitors are drawn from the last 20% of the field.
• Start before Bib #1
• In reverse order of their start number

% TABLE

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In extraordinary conditions, the Jury may change the starting order of a Downhill race, a Giant Slalom or a Super G (when snowing, etc.). A group of at least 6 competitors, nominated in advance, start before start number 1. These 6 competitors are drawn from among the last 20% of the start list. They will start in reverse order of their start numbers.
Jury Detail

- Overview
- Responsibilities
- The Technical Delegate
- Re-runs, Sanctions, Disqualifications, Protests
Race Jury – ICR 601.4

- Technical Delegate
  - Chief of Race
    - Liason to RoC
  - Referee
    - Start Referee
      - WC, OWG
    - Finish Referee
      - WC, OWG
  - Assistant Referee (only for speed events)
Race Jury – 601.4.6

Duty:
While each member of the jury has some specific responsibilities (TD - ICR 604.9, Referee - 604.10), the voting jury members are jointly and equally responsible/accountable for the decisions the jury makes.

Guiding principles for decision making include:

- **compliance** with the rules of racing,
- **the security** of the athletes / participants, and
- **the delivering the fairest** competition environment for the circumstances at the time (variables: weather, time, resources, equipment, etc.).
- consistent application of **due process** and **hard evidence** protocols to resolve protests.
Race Jury

• Voting members & their appointment
• “Jury Advisors” and “Eyes of the Jury”

Non-Points Races
  • All age groups, calendared by divisions with PSO
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National Points Races
  • U14 and older, calendared at ACA by PSO
  • Competitive stream to qualify for provincial and national championships

FIS Races
  • U18 and older, calendared FIS by ACA
  • Competitive stream to qualify for provincial and national teams that compete at the Continental Cup and World Cup circuits
Jury Responsibilities

• Rules
• Security
• General responsibilities
  – Technical Delegate
    • Chairing the Jury
  – Referee & Assistant Referee
    • Start Referee, Finish Referee, Course Setter
  – Chief of Race
    • Operations
Technical Delegate – ICR 602, 601.4.9

- rules advisor, security advisor, certifies race results

<table>
<thead>
<tr>
<th>Representative the Sanctioning Body 602.1.1</th>
<th>Chair of the Competition Jury 601.4.5</th>
<th>Member of the Race Organizing Committee 601.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIS or Alpine Canada Alpin, as applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Certification of race results</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(sole discretion, not a jury decision)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Enforcement of technical standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Leader, facilitator, advisor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Panel of equal votes except for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>breaking ties</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Chief of Race</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Referee / Asst Referee, as applicable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Chief of Race</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Referee(s)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Start Referee</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Finish Referee</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jury advisors / eyes of the jury, as</td>
<td></td>
</tr>
<tr>
<td></td>
<td>appointed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chief of the Course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chief of Timing and Calculations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chief of Administration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chief of Gate Judges</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chief of Medical and Rescue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chief of Equipment</td>
<td></td>
</tr>
</tbody>
</table>
Technical Delegate – ICR 602, 601.4.9

- rules advisor, security advisor, certifies race results
Rules for Re-Runs, Sanctions, Disqualifications, Protests
ICR 620s and 640s
Re-Runs, Sanctions, Disqualifications & Protests

Know the ICR ~ the FIS rule book

- 623 - Reruns
- 627 – Not Permitted to Start
- 628 - Penalties
- 629 – Disqualifications
- 640 - Protests
- 641 – Types of Protests
- 642 – Submitting Protests
- 643 – Deadlines for Submittal
# Jury Minute with Protest

![Image of Jury Minute with Protest form]

## Minutes of Jury Decisions (with Protests)

**Place / Lieu / Ort**: [blank]

**Judge / Jury / Event**: [blank]

**Category**: [blank]

<table>
<thead>
<tr>
<th>Jury member present / Membre &amp; jury présent / Mitglied &amp; Jury anwesend</th>
<th>[blank]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function / Funktion / Funktion</td>
<td>[blank]</td>
</tr>
<tr>
<td>Name / Name / Name</td>
<td>[blank]</td>
</tr>
<tr>
<td>Date of protest / Date de protestation / Protestdatum</td>
<td>[blank]</td>
</tr>
</tbody>
</table>

**Summary of reasons for protest / Raison pour le protest / Gründe für die Protestierung**:

- [ ] Signature of protest / Signature du protest / Unterschrift des Protestes

**Decision / Décision / Entscheidung**: [blank]

**Time Published / Date d'impression / Zeitpunkt der Veröffentlichung**: [blank]

**Fédération Internationale de Ski / International Ski Federation / Internationale Ski Federation**

---

[Note: The form contains several entries and checkboxes that require filling in with specific details.]
Jury Case Studies

Put on your thinking cap
Rules for Race Courses
The Race Course

- DH
- Super G
- GS
- SL
## Race Course Technical Specifications

### Check List for vertical drop (VD), number of gates (NG) and number of direction changes (DC)

<table>
<thead>
<tr>
<th>EVENT</th>
<th>OWD/WSG</th>
<th>WC</th>
<th>COG</th>
<th>FIS</th>
<th>CHI</th>
<th>ENL</th>
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<tbody>
<tr>
<td>DH (Art. 508)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>VO</td>
<td>400 – 800</td>
<td></td>
<td></td>
<td></td>
<td>1 Run: 400-500m</td>
</tr>
<tr>
<td></td>
<td>2 Runs: 300-400m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gate Panel</td>
<td>0.75 x 0.50</td>
<td>colour for gate panels (see art. 701.3.2)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>L</td>
<td>VO</td>
<td>350 – 450</td>
<td>(2 Runs Race)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NG</td>
<td>as required</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>VO</td>
<td>500 (70°) – 1100</td>
<td>500 – 1100</td>
<td>450 – 1100</td>
<td>1 Run: 400-500m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 Runs: 300-400m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SL (Art. 508)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>VO</td>
<td>145 – 220</td>
<td>120 – 250</td>
<td>100 – 160</td>
<td>80 – 120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Runs: 50 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number of direction changes</td>
<td>50%–35% (v + / -)</td>
<td>32%–36% (v + / -)</td>
<td>35%–35% (v + / -)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>VO</td>
<td>185 – 220</td>
<td>140 – 220</td>
<td>100 – 160</td>
<td>80 – 140</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Runs: 50 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>GS (Art. 508)</td>
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<td></td>
<td></td>
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<tr>
<td>L</td>
<td>VO</td>
<td>145 – 220</td>
<td>120 – 250</td>
<td>100 – 160</td>
<td>80 – 120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Runs: 50 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number of direction changes</td>
<td>11% – 15%</td>
<td>13% + / -</td>
<td>13% – 15%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>VO</td>
<td>300 – 400</td>
<td>250 – 400</td>
<td>200 – 250</td>
<td>210 – 290</td>
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<tr>
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<td>3 Runs: 50 m</td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SG (Art. 1000)</td>
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</tr>
<tr>
<td>L</td>
<td>VO</td>
<td>400 – 600</td>
<td>300 – 500</td>
<td>250 – 400</td>
<td>350 – 500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number of direction changes</td>
<td>8% min</td>
<td>7% min</td>
<td>8% – 13%</td>
<td>7% min</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>VO</td>
<td>400 – 600</td>
<td>350 – 500</td>
<td>300 – 400</td>
<td>350 – 500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Runs: 50 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P (Art. 1202)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>VO</td>
<td>80 – 100</td>
<td></td>
<td></td>
<td></td>
<td>2 Runs: 80</td>
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<tr>
<td></td>
<td>3 Runs: 60-80 (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gate Panel</td>
<td>0.75 x 0.50</td>
<td>red course / blue course</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) In orange/orange gate (see art. 701.1.10)  
2) As per art. 501.1.4
Course Setting Terms

Fig A Giant Slalom/Super G/Downhill
1. Turning Pole
2. Turning Gate
3. Outside Pole
4. Outside Gate

Fig B Parallel

Fig C Slalom
Slalom – ICR 800
Slalom

A: Horizontal Gate
B: Delay Gate
C: Vertical Gate
D: Turning Pole

12 - 18 m. min-max
Delay Gate Combination

0.75 - 1.00 min-max
Vertical Combination

4-6 m. min-max

6 - 13 m. min-max
Slalom

- First gate
- Normal race line
- Delay gate combination
- Vertical combination
- Imaginary line
- Gate line
- Last gate
Giant Slalom – ICR 900
Giant Slalom

START

FINISH

FLEXIBLES

RIGIDE OU FLEXIBLE

4 - 8 M

PORTES VERTICALES FLEXIBLES

4 - 8 M
Super G – ICR 1000
Super G

• FIS Race Event
  • DH or Super G race and one run SL race
  • If possible both races on the same day
  • Racers seeded by “speed” or SL points of 1st event (see ICR 621.3.3)
  • 2nd run event Start List is reverse start order of the 1st run race results
Super G

ACA National Points Races

NCR 2.2.2  National points Super G races should be run on FIS SG / GS homologated courses. For Super G races calendared on lower elevation slopes, PSO approval is needed. The PSOs must ensure that athlete security is appropriate to the venue.
Downhill – ICR 700
Downhill

MEDICAL CONTROL

START

No limit for the maximum

VISIBLE

WILLY BAGS

FENCING NETS

COMMUNICATION
Alpine Combined

- FIS Race Event
  - DH or Super G race and one run SL race
  - If possible both races on the same day
  - Racers seeded by “speed” or SL points of 1st event (see ICR 621.3.3)
  - 2nd run event Start List is reverse start order of the 1st run race results
Kinder Combi

- MAXIMUM VERTICAL DROP ~ K1 – 250M
- KK TECHNICAL – MIXTURE OF GS, SL & STUBBY GATES
- KK SPEED – MIXTURE OF GS AND SG GATES
- ON THE SAME COURSE
- MINIMUM # OF DIRECTION CHANGES – 30
- NO MAXIMUM
- MINIMUM GATE DISTANCE - 0.75M
- MAXIMUM GATE DISTANCE - NOT MORE THAN 28M
- GATE WIDTH ~ MINIMUM DISTANCE - 4M
- MAXIMUM DISTANCE - 8M
- KINDER SLALOM & GIANT SLALOM RULES APPLY
Course Preparation

• Planning
• Selection of Race Course
• Snow Preparation
• Protection Installations
Course Preparation

• Machine Grooming – tilling
• Snow making
• Water
• Water Bar
• Chemicals
Protection Installations

• Fencing
  – ‘C’ fencing

• Netting
  – ‘A’ system - ‘B’ netting

• Padding
  – Willey bags
Protection Installations
Protection Installations
Protection Installations
A systems

A-NET SYSTEM

- Support Cable
- Net Tension Lines
- Guy / Anchor Lines
- Support Pole
- A-Net
- Slip Skirt
- Bottom of A-Net Anchored beneath Snow

Detail Buried Skirt of Net

drawn by Greg Kent
A systems

with slip skirting
** IMPORTANT: Follow the specific B-Net Manufacturer’s Installation Guidelines with respect to: system configuration, pole spacing, layer separation, net tension, drilling angles, incline, overlapping connections, inspection, handling & storage.
B net

Original Primary Fence Loc’n

Original Secondary Fencing Loc’n

Racer’s Projected Trajectory

Racer’s Original Path

Collapsing Secondary Fence Loc’n

Collapsing Primary Fence loc’n

The Ramping Effect
Course Setting Terms

Triple ‘B’ netting
C fencing

C-NET
SPECTATOR CONTROL FENCING

E-Net
(safety fencing)

C-NET
for spectator containment
& access control
(non-safety)
Obstacle Protection

Lift Tower

Willy Bags
(secured ≥ 4m from obstacle)

B-Net
(lining race course)

TYPICAL OBSTACLE PROTECTION
Discuss
Start Area – ICR 613.1, 613.2

START GATE & RAMP

89 x 89 mm x 90 cm Posts

50 cm

45° Ramp Angle

60 cm

Mid-Calf

Start Gate & Mounting Bracket

Start Wand

Open

Bamboo

Timing Cable

Level Start Area

Conduit (buried)

Posts firmly anchored / frozen in place

drawn by graig leon
Start Area
Finish Area – ICR 615.1, 615.2
Finish Area
Photo Cell Protection

TYPICAL PHOTO CELL FINISH LINE INSTALLATION

- Small Snow Berm on uphill side of posts
- Timing Cable to Pedestal / Timing Hut (buried to edge of run)
- Saw Cut (uphill side of post at snow level)
- 2x2 (38mm x 38mm) Wooden Posts anchored firmly

Beam Height

< 20cm
below knee height:

Willy Bag
Photo Cell System B
Photo Cell System A
Photo Cell Swivel Mounting Bracket

drawn by gaeg kent
Course Inspection

ICR 601.4.6
603.7.4
608.12.7
614.1.5
614.3.2
628.4
Gate Judges
ICR 660 - 669

• Checklist for Chief of Gates
• Guidelines for Gate Judges
• Number of Gates per GJ
• GJ Quiz
Gate Judging Terms
Correct Passage

Single Pole/Panel

804.3, 904.3

In single pole SL and GS, both feet and ski tips must have passed the turning pole on the same side, following the normal race line crossing the imaginary line from turning pole to turning pole.
Correct Passage

NO CLIMGING

614.2.3
If a competitor comes to a complete stop (e.g. after a fall), he must no longer continue through previous or further gates.

• All fixed start disciplines (GS, SG, DH)

Climbing permitted for SL as long as the competitor does not interfere with the run of the following competitor OR [the competitor] has not been passed by a following competitor.
Correct Passage Videos
Timing - ICR 611

- Rules of Timing
  - Multiple communications
  - Printed electronic timing to 1/100th second
  - Hand timing mandatory
  - Electronic timing failure

- Equivalent Electronic Time – EET
- National Timing Form
Timing Synchronization

- Timing Booklet, Alpine Skiing, v2.54 May 2016
- Synch confirm at +1 minute:
- Synchronization to the Time of Day for all systems must be accomplished. Connect all timing devices that run in time of day at one start source (one single contact only for checking) and start the time of day of all timing devices. Trigger the timing devices again after 1 minute and check if the time of day for this impulse is within a 1/1000ths (0.001) for System A and System B timers. If they are not, you must re-synchronized and try again.

...
Timing Synchronization

• Homologated starting gates have two separate contacts. It is not sufficient to synchronize the timers by simply opening the start gate.

• Synchronization must be executed with all timers connected to receive the start impulse from a single source. Use of a single “plunger” trigger is the preferred method. Alternatively, all timers must be connected to just the System A pair or just the System B pair of plugs from a start gate.

A Timing Best Practice:

• After the forerunner reports have been received from the Finish Referee, the TD should seek or receive confirmation from the Chief of Timing that:
  – all of the timers are correctly synchronized,
  – both the start and the finish hand timers are operating correctly, and
  – both the start and the finish hand timers are being operated correctly.
Electronic Equivalent Time

611.3.2 Utilization of times taken by hand

Hand times may be used in the official results after a correction has been calculated.

Effective fall 2017, the missing System A time of day element (start impulse or finish impulse) is calculated to the precision of the System A timer (1,000’s or 10,000’s of a second, as applicable) and manually inserted into the timing data (M flag).
EET

• TOD Replacement produces better result, most of the time
• TOD replacement works with or without synchronization
• Math can be done either way, alternate minus primary or primary minus alternate
• For athletes missing both start and finish time, NET Time calculations (old method) produces exact same result as doing the math with a replaced TOD start and replaced TOD finish
• Replacement calculations should be done to the .001 precision
• Look for and use electric system B whenever possible, no matter how you do the math, electric gives a much better result!
611.3.2.1

Calculation of the correction time of day impluse:
Subtract the electronic time from the time taken by hand (or vise versa) for the all of the 10 competitor times preceding the missing time. If there are not 10 times before, complete the calculation with the remaining times after the missed time.

The sum of the 10 time differences is divided by 10 and rounded up or down (0.044 -> 0.04, 0.045 -> 0.05) to give the correction which must be applied to the hand time of the competitor without an electronic time.
.001 primary and .01 replacement system (hand timing)

| Bib | Sys A TOD Fin | HT Finish TOD | Sys A - HT | Calculate to
|-----|--------------|---------------|------------|-------------
| 27  | 08:19:18.019 | 08:19:17.88   | 0.139      | Sys A precision
| 30  | 08:21:20.141 | 08:21:19.92   | 0.221      |
| 31  | 08:27:20.215 | 08:27:20.14   | 0.075      |
| 32  | 08:28:01.178 | 08:28:01.13   | 0.048      |
| 33  | 08:28:40.759 | 08:28:40.58   | 0.179      |
| 34  | 08:29:21.983 | 08:29:21.94   | 0.043      |
| 35  | 08:30:03.018 | 08:30:02.86   | 0.158      |
| 36  | 08:30:38.179 | 08:30:38.03   | 0.149      |
| 38  | 08:31:20.619 | 08:31:20.52   | 0.099      |
| 39  | 08:32:01.521 | 08:32:01.43   | 0.091      |
| Missing | 40 | 08:32:43.89 | 1.202 |

/10

Replacement Finish

Primary Start

Resulting Net Time

08:32:44.010

08:31:24.489

00:01:19.521
On-hill Hand Timing

- One of the widely used stand-alone hand timing devices available.
- Synchronization with system A and B timers
- Bib number input
- Impulse by plunger-trigger
- Data retention
- Data download
- Printed strips

• Using digital stop watches means using recording forms
Start, Countdowns, Finishes

- **Start Timing** – shall measure the exact time the competitor crosses the start line with his leg below the knee
- **Start Countdowns**
  - Start signal / interval 613.4
- **Valid and False Starts** (613.6, 613.7, 628.5, 629.3)
- **Determination of Finish** (614.1.1, 615 f)
- **Timing of the Finish**
Technical Timing Report

Required for all FIS races, and ACA provincial / national championships.

Submit to the National Timing Group c/o officials@alpinecanada.org
Technical Timing Report

![Timimg & Data Technical Report](image-url)
Points System

• National Points System
• FIS Points System

• Points List – On the FIS & ACA web sites
• Race Points – Specific formula
• Race Penalty – Calculated number to equalize races on different hills
• Racer Points or Result – Race points + Penalty = Result
• Points – average of two results in each discipline
Race Points

\[ P = \left( \frac{Tx}{To} - 1 \right) x F \]

- All calculations must be done to at least 4 decimal places – no rounding off till calculation complete
- Round off to 2 decimal places as follows:
  - Ignore 4\textsuperscript{th} decimal and use the value of the 3\textsuperscript{rd} decimal place to round the 2\textsuperscript{nd} decimal place
  0 – 4 ~ stays the same    5 – 9 goes up
Penalty Calculation

Procedure:

1. List top 10 finishers
2. Add up list pts for the best 5 list point finishers from the top 10
3. Add up the list points for the best 5 list points who started the race irrespective of finish
4. Add the results of the best 5 who finished and who started
5. Deduct the race points of the best 5 list points holders
6. Divide by 10
7. Adjust by Z and adder values
Penalty Calculation

• Some Important Points to Note in National Race Penalty Calculation:

• The maximum penalty value for a National Level race is 500.00.
• The “Fill In” point is to be use in case there are less then five racers with NATIONAL points is 500.00 for all discipline. This fill in must also be use if the racer’s points are over 500.00
• There will be no “ADDER” used at National level races.
• There will be no “Z” factor’s used at the National level races.
• If two or more competitors have the fifth best points, which should be taken into consideration for the penalty calculation, the competitor with the higher
• race points will be considered for the penalty calculation. (Reason: better penalty).
### Source for current variables

#### Alpine Skiing

**FIS**

**2017/2018**

**1st FIS points list 2017/2018**

Valid from 01-07-2017 to 09-08-2017

<table>
<thead>
<tr>
<th>Category/Catégorie/Kategorie</th>
<th>Race level</th>
<th>Minimum penalty</th>
<th>Maximum penalty</th>
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<tbody>
<tr>
<td>OWG, WC, WSC</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>COM</td>
<td>0</td>
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<td>4.00</td>
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<tr>
<td>FQUA, EQUA</td>
<td>0</td>
<td>9.00</td>
<td>999.00</td>
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<tr>
<td>FEC, SAC, UVS, NAC, EC, WC, ECOM, ANC</td>
<td>1</td>
<td>6.00</td>
<td>999.00</td>
</tr>
<tr>
<td>NC</td>
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<td>8.00</td>
<td>999.00</td>
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<tr>
<td>AWG, CISM, FIS, CIT, UNI, JUN, CORP, NJC, NJR, YOG</td>
<td>3</td>
<td>9.00</td>
<td>999.00</td>
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<tr>
<td>ENL</td>
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<td>40.00</td>
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**FÉDÉRATION INTERNATIONALE DE SKI**
**INTERNATIONAL SKI FEDERATION**
**INTERNATIONALER SKI VERBAND**
Penalty Example

Slalom Ladies final SS 2017-01-08
FIS PENALTY CALCULATION

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TOTALS

(B) FIS POINTS OF BEST 5 AT START
(A) FIS POINTS OF BEST 5 TO FINISH IN TOP 10
(C) RACE POINTS OF CORRESPONDING COMPETITORS

CALCULATED PENALTY 284.81 + 224.07 - 33.93 / 10

Rounded Category Awards

CORRECTION VALUE (2)

47.10
3.80
40.00

PENALTY APPLIED:

LAMBERT 308
(CAN) #1088

08-01-17 / STATION MONT SAINTE-ANNE LIST: LWBB17 CAMG23B.103B SF9 / 1
DATA PROCESSING BY SPLIT SECOND SOFTWARE TIMING ALGEE TIM2
PAGE 8 janvier 2017
Results

• Rules for the form and content of results

• **Accuracy** of input of data is essential for correct preparation of results

• Distribution of race results available from FIS, ACA or PSO depending on level of race.
Results

Race results with penalty calculation are submitted on-line by uploading .xml files in the prescribed formats. The files are emailed to alpineresults@fissski.ch. Files are to be named in the following format:

CANcodex_TD#.xml

CAN1383_1018.xml

note: race codex must be 4 digits e.g. 0567 not 567.

The subject line for uploading emails should be “Results CANcodex.TD # e.g. Results CAN1383.1018

TTRs are submitted on-line by uploading .xml files in the prescribed formats to alpineresults@fissski.com. The TTR software has an email facility built in. Copies should be sent to the RA, the TD and the Canada FIS TD Commissioner at the same.

yearALcodexTR.xml
2017AL1383TR.xml

The TD Report is prepared and submitted on-line by the FIS TD using his/her secure FIS portal. The TD is to send a copy to the Race Administrator for record keeping.

Hardcopy and scanned copies of all reports are to be retained by the Race Administration for 1 year. In addition to the results, penalty, TTR and TD Report, retained records include all minutes, 1st Run Start Lists, Referee Reports, Accident Reports, supplementary reports and timing strips.
More Case Studies

Teamwork
Thank you

• Thank you to the countless volunteers and Officials that make ski racing in Canada what it is today.

• Your dedication is appreciated both in the classroom and on the hill.