Outline

1. Overview: Introduction to Alpine Ski Racing
2. Roles
3. Security
OVERVIEW
1. Preparation

- Calendar
- Logistics
- Personnel
- Operations

Pre Race
- Race Notice
- Register entries
- Team Captains’ Meeting (TCM)
2. Set Up Equipment

Timing
- Cables
- Timing systems
- Start Gate
- Headsets
- Finish Photocells

Course
- Fence
- Course Set
- Gates
- Panels
- Dye
3. Training Runs for Downhill (DH) & Ski Cross (SX)

- Inspection by Jury
- Inspection by Athletes
- Forerunners
- Competitors
4. Race Runs

- Inspection by Jury
- Inspection by Athletes
- Forerunners
- Competitors

Runs 1 or 2

Unofficial Results
Run 1, 2

- Referee Report
- Protest Period
5. Final Runs for SX & Parallel

- heats
- Small Final
- Big Final
6. Tear Down & Results

- Tear Down
  - Course
  - Timing
  - Fence

- Results
  - Upload
  - Awards
Overview
Principles

SECURE

FAIR
## Governing Bodies

<table>
<thead>
<tr>
<th>International</th>
<th>National</th>
<th>Provinces/Territories</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIS Fédération internationale de Ski (Alpine &amp; Cross)</td>
<td>ACA Alpine Canada Alpin</td>
<td>PTSO Provincial/ Territorial Sports Organization</td>
</tr>
<tr>
<td>WPAS World Para Alpine Skiing</td>
<td>CPC Canadian Paralympic Committee</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSA Canadian Snowsports Association</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td>National</td>
<td>Provinces/Territories</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>----------------------</td>
</tr>
<tr>
<td>ICR International Competition Rules</td>
<td>NCR National Competition Rules</td>
<td>Provincial/Territorial Rules &amp; Guidelines</td>
</tr>
<tr>
<td>WPAS Rules and Regulations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Competition Levels

<table>
<thead>
<tr>
<th><strong>International</strong></th>
<th><strong>National</strong></th>
<th><strong>Provinces/Territories</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>World Cup</td>
<td>ACA National Point races</td>
<td>U14 U16 U18 U21 regional races</td>
</tr>
<tr>
<td>Continental Cup</td>
<td>National Championships</td>
<td></td>
</tr>
<tr>
<td>FIS/WPAS Point races</td>
<td></td>
<td>Provincial Championships</td>
</tr>
<tr>
<td>World Championships</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winter Olympics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paralympic Games</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Marked as OFFICIAL LEVEL 1
<table>
<thead>
<tr>
<th>International</th>
<th>National</th>
<th>Provinces/Territories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIS Technical Delegate (TD)</strong></td>
<td><strong>ACA TD</strong></td>
<td><strong>ACA TD</strong></td>
</tr>
<tr>
<td>ACA Officials</td>
<td>ACA Officials</td>
<td>ACA Officials</td>
</tr>
<tr>
<td><em>FIS TDs officiate at WPAS events</em></td>
<td></td>
<td>Course Facilitators</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TD Examiners</td>
</tr>
</tbody>
</table>
## Para Alpine Classification

<table>
<thead>
<tr>
<th>Visual Impairment (VI)</th>
<th>Standing</th>
<th>Sitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>ski with a guide in front, who gives verbal direction</td>
<td>adaptive equipment: prosthesis, orthosis, outriggers*</td>
<td>adaptive equipment: sit ski, outriggers*</td>
</tr>
</tbody>
</table>

*considered poles
Governance
THE RACE
Areas of the Race

ADMINISTRATION

TIMING

START AREA

COURSE

FINISH AREA
Administration - ROC

RACE ORGANIZING COMMITTEE (ROC)

- Race Chair
- Race Administrator
- Communications
- Finances
- Volunteers
- Food & Beverage
- Awards
- Facilities
- Accommodation
- Transportation
- Public Relations
- Finances
- Volunteers
- Food & Beverage
- Awards
- Facilities
- Accommodation
- Transportation
- Public Relations
Administration - Race Administrator (RA)

**before TCM**
- Race Notice
- Entry

**after TCM**
- Program
- Start List

**after Race**
- Results

*Para Alpine result: time & classification factor*
Timing arithmetic

finish time-of-day 9:31:05.23245
- start time-of-day 9:30:21.98344
  competitor’s elapsed time 43.25 seconds

three timing systems to record time stamps

all systems synchronised to the same time of day

if primary system misses a time, a backup system is used to calculate a replacement time

times displayed/announced during race are unofficial
Timing Tools & Equipment

TOOLS
❖ drill
❖ auger
❖ shovel
❖ chainsaw

computer & software

headset

headset

start gate & wand

 timers with printers

cables

photocells

hand timer

hand timer

hand timer
Timing Start & Finish

- wand
- start gate
- photocells
Start Area Tools & Equipment

TOOLS
- drill
- auger
- shovel
- rake

COMPETITOR CORRAL
- 4x4 posts
- start pads
- ramp
- level area
- fence
Start Area
Finish Area Tools & Equipment

TOOLS
❖ drill
❖ dye pack

Parallel events: visually divide the finish area, to keep competitors separate after finish line, e.g. brushes

FINISH CORRAL
- smooth
- gently sloped
- 2x2 posts
- willy bag or pad
- fence

SPECTATOR CORRAL
smooth
gently sloped
FINISH
CORRAL

SPECTATOR
CORRAL

fence

willy bags in front of
2x2 posts
Administration, Timing, Start & Finish Area
Technical Events

**GS** Giant Slalom

**SL** Slalom

- Panelled SL
- Parallel
  - less vertical drop
  - more direction changes
  - gates set closer together
Single Pole SL (1)

FIRST GATE

LAST GATE

1

2

3

4
Single Pole SL (2)

FIRST GATE
double
outside

1 inside

 turning

2

3

LAST GATE
double
inside

4 outside
Single Gate GS / Panelled SL (1)

FIRST GATE

PANEL - lower edge of the panel is approximately 1m above the snow

LAST GATE
Single Gate GS / Panelled SL (2)

FIRST GATE
outside
double

1 inside

turning

2

3

LAST GATE
inside
double

4 outside
Parallel

FIRST GATE

double

LAST GATE
double
Speed Events

SG Super G
DH Downhill

❖ greater vertical drop
❖ fewer direction changes
❖ gates set further apart
FIRST GATE

LAST GATE
FIRST GATE: outside

1: inside

2

LAST GATE: inside

3: outside
Combined Events

AC  Alpine Combined
1. DH run, SL run (classic)
2. SG run, SL run

KK  Kinder Kombi
1. SL/GS course (technical)
2. GS/SG course (speed)
SX Event

Built with features:

❖ roller
❖ bank
❖ jump
❖ step up
❖ step down
### Vertical Combinations

<table>
<thead>
<tr>
<th>HAIRPIN</th>
<th>FLUSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 GATE VERTICAL COMBINATION</td>
<td>3 or 4 GATE VERTICAL COMBINATION</td>
</tr>
</tbody>
</table>

**Diagrams:**
- **Hairpin**
  - 2 Gates
- **Flush**
  - 3 or 4 Gates
Delay (2)

5 gates
4 direction changes
delay: no direction change

5 gates
4 direction changes
delay: no direction change
<table>
<thead>
<tr>
<th>Course Tools &amp; Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>drill</td>
</tr>
<tr>
<td>dye sprayer</td>
</tr>
<tr>
<td>rake, shovel, blower, groomer</td>
</tr>
<tr>
<td>radios</td>
</tr>
<tr>
<td>flexible/rigid pole, stubby, panel, brush</td>
</tr>
<tr>
<td>A system, B net, C fence</td>
</tr>
<tr>
<td>willy bag, air bag, pad</td>
</tr>
<tr>
<td>yellow flag</td>
</tr>
</tbody>
</table>
Correct Passage Video

 mẽ US Ski & Snowboard video (13:31)
Correct Passage

1. Both ski tips and feet
   1. Single Pole SL/GS
   2. SX
2. Missing gate
3. Must stop after a fault
4. Must not continue after a stop – SL exception
5. Loss of one ski
6. Finish Line
1. Both Ski Tips and Feet

**ICR 661.4.1** A gate has been passed correctly when both the competitor’s ski tips and both feet have crossed the gate line.

If a competitor loses a ski, without committing a fault, e.g. not by straddling a pole, then the tip of the remaining ski and both feet must have crossed the gate line.

This rule also applies when a competitor has to climb back up to a gate.
SG / DH Imaginary Gate Line

FIRST GATE

LAST GATE
Vertical Combination Imaginary Gate Line

HAIRPIN

2 GATE VERTICAL COMBINATION

FLUSH

3 or 4 GATE VERTICAL COMBINATION
1.1 Single Pole SL/GS

ICR 804.3/904.3 Where there is no outside pole/gate, both feet and ski tips must have passed the turning pole on the same side, following the normal race line of the slalom/giant slalom crossing the imaginary line from turning pole to turning pole.

If a competitor loses a ski, without committing a fault, e.g. not by straddling a pole, then the tip of the remaining ski and both feet must meet both requirements.

If the competitor has not correctly crossed the imaginary line from turning pole to turning pole and does not follow the normal race line, then he has to climb back up and pass around the missed turning pole.

Where there is an outside pole/gate (first and last gate, delayed gate, and combinations (hairpin, vertical) art. 661.4.1. is valid.
Single Pole SL Imaginary Gate Line

FIRST GATE

LAST GATE
Single Gate GS/Panelled SL Imaginary Gate Line

FIRST GATE

LAST GATE

v19.1 2019/2020 OFFICIAL LEVEL 1
Delay Imaginary Gate Line
ICR 5401 Gate Passage  A gate has been passed correctly when both ski tips and both feet of the competitor have crossed the gate line. Wherever two gates are set, the gate line is the imaginary shortest line between the two turning poles. Wherever a turning gate only is set, the gate line is the extension into the course of the line formed by the outside pole of the gate and the turning pole.
SX Imaginary Gate Lines

corridor
roller
take off

turn
2. Missing Gate

ICR 661.4.1.3 If a competitor removes a pole from its vertical position before both the competitor's ski tips and both feet have passed the gate line, the ski tips and feet must still pass the original gate line (marks in the snow).

This is also valid in the case of a missing turning pole (or gate).
3. Must Stop after a Fault

ICR 614.2.2 Interdiction to Continue after a Gate Fault If a competitor misses a gate, he must no longer continue through further gates.
4. Must Not Continue after a Stop

**ICR 614.2.3 Interdiction to Continue after a competitor stops** If a competitor comes to a complete stop (e.g. after a fall), he must no longer continue through previous or further gates. This interdiction is valid in all events with a fixed start interval (Downhill, Super-G, Giant Slalom, Parallel). Only exception is for Slalom, as long as the competitor: does not interfere with the run of the next competitor or, has not been passed by the next competitor.

**WPAS 409.2.5.2 Exception for guides, who can stop to remain in compliance to competitor-guide distance requirements.**

1303.2 The distance between guide and competitor must be less than three (3) gates for SL and two (2) gates for GS, SG and DH, excluding delay gates and vertical combinations. Failure to comply will lead to disqualification.
ICR 614.2.4 **Loss of one ski** If a competitor loses a ski without having committed a gate fault or without coming to a complete stop, he may continue, as long as he does not interfere with the run of the next competitor or, has not been passed by the next competitor.
ICR 615.3 Crossing of the Finish Line and Recording of the Times
The finish line must be crossed:
- on both skis or
- on one ski or
- with both feet in case of a fall between the last gate and the finish line. In this case the time is taken when any part of the competitor's body stops the timekeeping system.

WPAS 1303.1 All guides must guide VI competitors from the front. An exception can occur only between the last gate and the finish line, where the competitor can overtake the guide.
Interference & Re-runs

1. Stop, report to Gate Judge
2. Blocking by person or object; missing gate
3. Validity of re-run; approved vs provisional
4. Outside help
5. SX Intentional Contact
1. Stop, Report To Gate Judge

**ICR 623.1.1** A competitor who is obstructed while racing must stop immediately after the incident takes place and report this to the nearest gate judge. He may apply to any member of the Jury for a re-run. This claim can also be made by the team captain of the obstructed competitor. The competitor should make his way to the Finish along the side of the course.
2. Blocking by Person or Object; Missing Gate

ICR 623.2.1 Blocking of the course by an official, a spectator, an animal or other obstruction.
623.2.2 Blocking of the course by a fallen competitor who does not clear the course quickly enough.
623.2.3 Objects in the course such as a lost ski pole or the ski of a previous competitor.
623.2.4 Activities of the first aid service which obstruct the competitor.
623.2.5 Absence of a gate that has not been promptly replaced.
623.2.6 Other similar incidents beyond the will and control of the competitor, which cause significant loss of speed or a lengthening of the racing line and consequently affect the competitor’s time.
3. Validity of Re-run; approved vs provisional

ICR 623.3.1 If the Referee or another Jury member is unable to question the appropriate officials immediately or to judge the justification for the re-run he may grant a provisional re-run, to avoid delay for the competitor. This re-run will be valid only if it is subsequently confirmed by the Jury.

623.3.2 If the competitor was already disqualified before the incident entitling him to a re-run, the re-run is not valid.

623.3.3 The provisional or subsequently approved run remains valid even if it proves slower than the obstructed one.
ICR 661.3 Should a competitor receive outside help, for instance after a fall, the Gate Judge must record this on his check card.
5. SX Intentional Contact

ICR 5404.1  Intentional Actions A competitor shall not force another competitor out of the course, nor intentionally cause them to slow down, lose balance, or crash. A competitor shall not cause any part of his body or skiing equipment to come into contact with another competitor’s body or skiing equipment during a race with the intent of impeding that competitor's progress for the purpose of overtaking or causing them to be overtaken by another competitor.

ICR 5404.1.2 Obstruction on Obvious Straight Lines The leading competitor shall have the right to choose his line on the course and through the corners. When on a straight section of the course, a competitor shall not intentionally block another competitor from passing.
Correct Passage
Management Roles

**JURY**
- Chief of Race
- TD
- Referee
- Assistant Referee

**JURY ADVISORS**
- Start Referee
- Finish Referee

**OTHER KEY ROLES**
- Race Chair
- RA
- Chief of Volunteers
- Chief of Timing
- Chief of Course
- Chief Gate Judge

**EYES OF THE JURY** *
- Section Chiefs
- other Jury designates

*may be used at Speed events, or when sections are hidden*
### Administration Roles for Level 1

<table>
<thead>
<tr>
<th><strong>Assistant RAs</strong></th>
<th><strong>ROC Members</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>registration</td>
<td>finances</td>
</tr>
<tr>
<td>accreditation</td>
<td>communications</td>
</tr>
<tr>
<td>collect fees</td>
<td>public relations</td>
</tr>
<tr>
<td>issue lift tickets</td>
<td>food &amp; beverage</td>
</tr>
<tr>
<td>adds and pulls</td>
<td>accommodation</td>
</tr>
<tr>
<td>take minutes</td>
<td>transportation</td>
</tr>
<tr>
<td>distribute documents</td>
<td>awards</td>
</tr>
</tbody>
</table>
Timing Roles for Level 1

- Starter
- Official Level 1
- Unofficial Results Display
- Announcer
- Timer

- Assistant
- Hand Timer
- Assistant
- Hand Timer
Start Area Roles for Level 1

- assistant starter
- SX bib coordinator
- SX gate ass’t
- starter
- start timer
- ass’t timer
## Start Signals & Commands

<table>
<thead>
<tr>
<th>Event</th>
<th>Interval</th>
<th>Signals &amp; Commands</th>
<th>Valid Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL</td>
<td>irregular</td>
<td>READY</td>
<td>10 seconds after GO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO</td>
<td></td>
</tr>
<tr>
<td>GS, SG, DH</td>
<td>fixed</td>
<td>10 SECONDS...</td>
<td>5 seconds before to 5 seconds after GO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 4 3 2 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO</td>
<td></td>
</tr>
<tr>
<td>Parallel</td>
<td>irregular</td>
<td>RED COURSE READY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BLUE COURSE READY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ATTENTION</td>
<td></td>
</tr>
<tr>
<td>SX heats</td>
<td>irregular</td>
<td>SKIERS READY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ATTENTION</td>
<td></td>
</tr>
</tbody>
</table>
Finish Area Roles for Level 1

SX Finish Judges

FINISH CORRAL
smooth
gently sloped
FINISH CORRAL

SPECTATOR CORRAL

bibs

finish
timer

ass’t
timer
Course Roles for Level 1

- steward
- gate judge
- slip crew
- section crew
- runner
Roles
**ICR 668.2** Organisers are obliged to outfit gate judges so that they are readily identifiable. Identification or clothing should be of a colour that will not be confused with a gate panel.

**668.4** Any equipment necessary to permit the gate judge to perform his assigned duties should be provided.
ICR 668.1 The gate judge must be so placed that he can safely but properly observe the terrain, gates and course sections for which he is responsible. He should be near enough to be able to take prompt action, but distant enough not to hinder the competitor.

668.3 The gate judge must be in his location well before the start of the run.
ICR 662.1 Each gate judge should have a thorough knowledge of the competition rules. The gate judge is required to follow instructions from the Jury.

662.2 The decision handed down by the gate judge must be clear and unbiased. The gate judge must declare a fault only when he is convinced that a fault has been committed.
ICR 662.3 The gate judge can consult the adjacent gate judge in order to confirm his opinion. He can even demand via a member of the Jury that the race is briefly interrupted, so that he may check the tracks on the course.

662.4 When an adjacent gate judge, a member of the Jury or an official video controller makes a report concerning a competitor which differs from the notes of the gate judge in question, the Jury may freely interpret these notes in view of a possible disqualification of a competitor or of a decision concerning a protest.
ICR 663.1 A competitor, in the case of an error or a fall, is permitted to ask the gate judge if a fault was committed and the gate judge, if asked, must inform a competitor if he has committed a fault that would lead to disqualification.

663.2 The competitor himself is fully responsible for his action and, he cannot hold the gate judge responsible.
Completion of the Run

ICR 665.1 The chief gate judge (or his assistant) is required to collect all the check cards immediately after each run and to pass them on to the Referee in the finish.

666.1 Each gate judge who has recorded a disqualifying fault or who has been witness to an incident leading to a re-run must be available to the Jury until after the settlement of any protests.

666.2 It is the responsibility of the Technical Delegate to dismiss a gate judge who is waiting to be called by the Jury.
ICR 667.1 The gate judge may be asked to perform other duties after he performs his required function, including the replacement of gate poles, torn or missing panels.

667.2 He should assist in keeping the course clear and remove any markings made on the course by competitors or third parties.
Gate Judge Card

❖ ONE CARD FOR EACH RUN

☐ 1. Before Race, fill in name and race information on all cards

☐ 2. Before Run, fill in section, gates, Run information

☑ 3. After Run, mark FAULTS ☑ YES or ☑ NO

GATE JUDGE CARD

Section
Gates
FAULTS ☑ YES
☐ NO

Cell ☑ 311-555-2368
Name ☑ Alex Lee
Date 1 Dec 2019
☐ U10 ☐ U12 ☐ U14 ☐ U16 ☐ U18
☑ FIS ☑ Masters
☐ SL ☑ GS ☑ SG ☑ DH ☑ Para

☑ Women ☐ Men
Run ☐ 1 ☑ 2
Drawings

Correct Passage
ski tips and both (2) feet on correct side

Fault STRADDLE
one (1) ski tip or foot on correct side

Fault MISS
no (0) ski tips & feet on correct side
Drawings & Notes

<table>
<thead>
<tr>
<th>Bib</th>
<th>Gate</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>R7</td>
<td>str</td>
</tr>
<tr>
<td>32</td>
<td>B6</td>
<td>(1)</td>
</tr>
<tr>
<td>42</td>
<td>R7</td>
<td>miss</td>
</tr>
<tr>
<td>56</td>
<td>R7</td>
<td>(2)</td>
</tr>
<tr>
<td>59</td>
<td>B6</td>
<td>stop</td>
</tr>
<tr>
<td>68</td>
<td>R7</td>
<td>str</td>
</tr>
<tr>
<td>99</td>
<td>R7</td>
<td>str</td>
</tr>
</tbody>
</table>

(1) 32 obst by slipper, req rr
(2) 56 obst by crew, no req rr
Gate Judge Card Activity

fill out
Gate Judge Card
Referee Report

DSQ  Disqualification
DNS  Did Not Start
NPS  Not Permitted to Start
DNF  Did Not Finish

PROTEST PERIOD
15 minutes
Gate Judge Instructions
Aerial - A System

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

Drawing by grey band
**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.
Crowd Control - C Fence

C-NET
SPECTATOR CONTROL FENCING

B-Net
(safety fencing)

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

drawn by greg kent
DO

❖ maintain net under guidance of senior officials
❖ position/install/connect/overlap properly
❖ inspect regularly, reset as needed
❖ unskirt (skirted: raised, e.g. for grooming)
❖ remove accumulated snow or ice
❖ repair damaged nets and poles
❖ store net properly
Some Net Issues

DO reset

DO reset & DO unskirt
Be Prepared

❖ dress for the conditions and tasks
  ❖ sun, cloud, wind/snow, sleet, rain/cold, warm
❖ conditions and tasks may change
  ❖ add layers & accessories to warm up
  ❖ shed layers & accessories to cool down
❖ fresh items to change during a break
❖ sun and eye protection
❖ nutrition/hydration
  ❖ plan breaks according to program
Be Aware

- be aware
- conditions and situations are always changing
- understand and pay attention to the race interval
- do not interfere with a competitor’s run
- keep checking above you for movement
Situational Awareness

STATIONARY

❖ understand the spill zones - which may change
❖ be prepared to move
❖ try not to make unpredictable moves
❖ people will be moving on and beside the course

MOVING

❖ time movement to occur after competitor passes
❖ ski in control, at an appropriate speed
Racer Down Protocol

- only authorized first responders should aid an athlete
- only enter an active course under the guidance of senior officials
- understand the Racer Down Protocol for the event
Sounds

❖ quiet near the start, for competitors to hear start signal
❖ do not shout “GO” near the start
❖ for visually impaired competitors, all noise must be kept to a minimum at the start, finish and on the entire course

❖ “COURSE” = CLEAR THE WAY, something approaching
Detect the Obstacles Activity
Detect the Obstacles
Security
Annually

Every season:

❖ register as an Official
❖ attend an update (at least every other season)
❖ Review ACA Official Code of Conduct
❖ continue to gain experience at events
❖ check for other educational opportunities
## Roles for Level 2

<table>
<thead>
<tr>
<th>Role</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race Administrator</td>
<td>Chief of Course</td>
</tr>
<tr>
<td>Chief of Volunteers</td>
<td>Chief of Equipment</td>
</tr>
<tr>
<td>Chief of Timing</td>
<td>Chief of Radios</td>
</tr>
<tr>
<td>Start Referee</td>
<td>Chief Steward</td>
</tr>
<tr>
<td>Finish Referee</td>
<td>Chief of Slip</td>
</tr>
<tr>
<td>Chief Gate Judge</td>
<td>Section Chief</td>
</tr>
</tbody>
</table>
Official Level 1