



ADVANCED TIMING & CALCULATIONS - ALPINE

SEASON 2025

STUDY GUIDE

This Study Guide is intended as an educational and review aid for individuals interested in alpine officiating. Downloading, printing, and reading the Study Guide must not be substituted for actual attendance at an approved U.S. Ski & Snowboard Alpine Officials' Clinic or used as a replacement for actual instruction at any approved clinic.

PLEASE NOTE: The Chief of Timing and Calculations is responsible for supervising, documenting, and enforcing the quality control of actual timing and results; the purpose of this clinic is refinement of the skills required by the position.

With the exception of lower-level events where availability of personnel makes it necessary, the Chief of Timing and Calculations should not also be the individual operating the electronic timing equipment or the timing/race result software.

Training the use of timing equipment and/or timing/result software will result in higher qualified officials, so it should be included in the curriculum. In an effort to address this issue, materials have been made available for a Timing Operations Workshop that can be used to facilitate this option.

REFERENCE PUBLICATIONS: *

1. U.S. Ski & Snowboard Alpine Competition Regulations (ACR)
2. ICR of the FIS, Online Edition
3. Rules for the FIS Points
4. U.S. Alpine Officials' Manual
5. FIS Alpine Skiing Timing Booklet (FIS website or "Miscellaneous Study Guide Tools")

** It is strongly recommended that individuals sitting for the Level 3 Chief of Timing & Calculations have paper copies of these publications available for review.*

CERTIFICATION EXAMINATION:

Advanced Timing & Calculations (Level 3) Certification Examination will be available at approved U.S. Ski & Snowboard Alpine Officials' Clinics. Allowed time limit is 2.5 hours. The examination is open book, and it must be administered only at scheduled clinics. It is NOT A TAKE-HOME EXAM. The use of computers in order to "search" rule books or complete calculations is **NOT ALLOWED**. Completed examinations are to be retained by the clinic examiners; they are not returned to the individuals taking them. Please refer to Region/Division publications for schedules. *The Study Guide is not intended as a replacement for taking notes or for use during an open-book examination at any Alpine Officials'-approved clinic.*

If you have problems with this Study Guide or have suggestions for improvements, please contact the Chair of the Alpine Officials' Education Working Group: aoewgchair@gmail.com. Thank you.

U.S. SKI & SNOWBOARD

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PLEASE NOTE: Procedures which impact your event operations and programs must be relayed to all event officials, Team Captains, and competitors. The procedures must – without question – be respected and observed.

Alpine Officials' resource materials are prepared to be accurate and in compliance with current rules and procedures while maintaining a nationwide outlook. The content of the material is reviewed by senior Alpine Officials prior to being submitted for acceptance by appropriate U.S. Ski & Snowboard authorities. If an item included in the resource materials appears to be in conflict with current rules and procedures, please contact U.S. Ski & Snowboard Competition Services for clarification and/or interpretation.

There is much information available to us - no one can possibly know it all. What we **SHOULD** know is **WHERE** to find it. Some of the sections of this Study Guide may require research by the user. This research will aid in the ability to understand the layout of applicable rule books/publications and will reinforce their content.

NOTE: The U.S. Ski & Snowboard Schedule Agreement and ACR U203.2, require that the Chief of Timing & Calculations have a current U.S. Ski & Snowboard Officials membership, be appropriately certified for their position, and have attended a biennial Continuing Education Clinic (Update) prior to the event. The OC should appoint the most qualified individual available to serve as Chief of Timing & Calculations. *The Chief of Timing & Calculations for National Championship, Nor-Am Cup, and World Cup events **should** be certified as a Level 3 or higher Chief of Timing & Calculations.*

REFERENCE DOCUMENTS:

The following reference items can be found at the end of this Study Guide, in “Miscellaneous Study Guide Forms”, or on the FIS website. Document numbering is not sequential because it agrees with numbering in the “Master Packet of Forms” (MPF) as posted on the U.S. Ski & Snowboard website. All forms contained in the MPF have been reviewed and, when required, have been updated for season 2025. It is suggested that forms be printed for easy reference while using the Study Guide.

42. Timing Checklist (MPF)
 - FIS List Cover Page (U.S. Ski & Snowboard and FIS websites)
 - FIS Alpine Skiing Timing Booklet (FIS website or “Miscellaneous Study Guide Tools)
15. USA Wireless Timing Application (MPF)

MINOR ATHLETE ABUSE PREVENTION POLICY (MAAPP) & SAFESPORT CODE

The following information is only a brief summary of information found in many documents. These documents are updated as required, so please refer to links posted on the U.S. Ski & Snowboard website for access to complete and current information. usskiandsnowboard.org/safesport-athlete-safety/safesport-resources

1. MINOR ATHLETE ABUSE PREVENTION POLICY (MAAPP)

MAAPP applies to “In-Program Contact” within the Olympic & Paralympic movement. Its implementation is required for the U.S. Olympic & Paralympic Committee (USOPC), National Governing Bodies (NGB), Member Clubs (also known as Local Affiliated Organizations or LAO), and Paralympic Sport Organizations (PSO).

MAAPP applies to all U.S. Ski & Snowboard employees, contractors, athletes, officials, and members. It also applies to participating non-members, e.g., foreign officials, timing companies, volunteers, and any adult participants. MAAPP has three primary components: 1) Education & Training, 2) Required Prevention Policies, and 3) Recommended Prevention Policies. *MAAPP should be implemented alongside the SafeSport Code.*

2. SAFESPORT CODE

U.S. Federal Law requires that adults who have frequent contact with, or who are in positions of authority over athletes, must receive consistent education on prevention and reporting of all allegations of sexual misconduct, bullying, hazing, and abuse of all forms. This impacts all U.S. Ski & Snowboard member clubs, coaches, officials, and Club Volunteer members. All members turning 18 years of age and older during the season are required to complete SafeSport training through the U.S. Center for SafeSport (substitutions are not permitted).

3. ADMINISTRATION PER MAAPP & SAFESPORT CODE:

The Local Organizing Committee (LOC), as well as other individuals and entities as set out in the MAAPP and the SafeSport Code, are responsible for monitoring and enforcing all requirements. These requirements include, but are not limited to:

- Memberships: Using the U.S. Ski & Snowboard website, the Race Administrator must verify that all individuals who are granted competition arena access: Jury members, Jury Advisors (Start and Finish Referees), Chief of Course, Course Setters, Coaches, Competitors, Forerunners, Chief of Timing & Calculations, Race Administrator, technicians, and medical staff, etc., have current and applicable U.S. Ski & Snowboard memberships. *Individuals whose memberships are “pending”, or whose names appear either on the Centralized Disciplinary Database or the Pending Membership List must not be issued any access that would allow competition arena access.*
- Alpine Official Certification Status: Using the U.S. Ski & Snowboard website, the Race Administrator must verify that all Jury members, Jury Advisors, Chief of Course, Course Setters, Chief of Timing & Calculations, and Race Administrator have appropriate certification as required by their position.
- Alpine Official Continuing Education (Update) Status: Using the U.S. Ski & Snowboard website, and with the exception of Technical Delegate, the Race Administrator must verify that the Chief of Race, Referee, Assistant Referee (if required), Chief of Course, Course Setters, and Chief of Timing & Calculations, have attended the required biennial Continuing Education Clinic. (For Season 2025, the allowed minimum is Season 2024 attendance.) Unless excused, Race Administrators and Technical Delegates are required to attend a certification-specific Workshop every season.
- Centralized Disciplinary Database: List of individuals subject to temporary or permanent restrictions pending investigation of violation of SafeSport Code. Names of all persons with credentials or venue access that allows access to the competition arena must be checked against the U.S. Center for SafeSport’s Centralized Disciplinary Database. If listed, presence not allowed. *Site allows filtering to*

sport. However, an individual may not be listed under one sport but may be listed under another; searching by name is the best practice. If you have a name match but cannot verify whether or not it is the individual attending the event, please contact Member Services.

- Volunteer Competition Worker Registration: Completion of a current “Volunteer Competition Worker Registration” is required for any workers/volunteers who are over the age of 18, are not U.S. Ski & Snowboard members, properly credentialed FIS officials, coaches and trainers, or regular employees of Organizer or of Ski Area/Landowner acting within the scope of their employment.
- “Blocks” of coaches’ tickets must not be provided for participating clubs. This practice does not allow the OC to make their best effort to comply with SafeSport requirements.

Please Note: The responsibility for communication and enforcement of MAAPP and SafeSport policies is the responsibility of the Local Organizing Committee (LOC) as well as other individuals and entities as set out in the Competition Administration Summary, the MAAPP, and the SafeSport Code. All this information is available on the U.S. Ski & Snowboard website at usskiandsnowboard.org/safesport-athlete-safety/safesport-resources.

The Jury is only responsible for technical matters within the **closed competition areas**. [601.4] The **closed competition areas** are defined as the “race arena” which is accepted as being those areas which the Jury inspects and accepts as being suitable for competitors’ presence; e.g., start arena, race course, finish arena.

In addition to noting that sanctions can be applied and a penalty imposed for “actions within and without the competition area”, **223.2.1** includes conduct within “any location connected with the competition.” These locations include, but are not limited to the following areas that are required for the orderly conduct of an event: Team Captains’ Meetings, Jury meeting areas, timing building, equipment control area. *Neither the “closed competition areas” (within or without the fencing) nor “any location connected with the competition” include lift lines, cafeterias, or parking lots, etc.*

SEASON 2025 ADVANCED TIMING & CALCULATIONS STUDY GUIDE

I. Focus of this Study Guide is primarily FIS-level events

- A. Regional FIS
- B. Nor-Am (Continental Cup)
- C. World Cup, World Championship, and Olympic Winter Games

II. Characteristics of Events

- A. Competitors are top level racers
- B. Team Captains are highly astute and knowledgeable professionals
Depending on type and level of event, one or more Team Captains may be appointed to serve as Connection Coaches. Connection Coaches:
 - Serve as liaison between all Team Captains and the Jury
 - Serve as on-hill “Eyes of the Jury”
 - May supervise yellow flag zones in DH and SG
 - Have voice but no vote in Jury matters/decisions

Depending on the terrain and course set, Connection Coaches may also be appointed for other events, e.g., Giant Slalom, Slalom, Parallel, etc.

- C. Organizing Committee (OC); may also be referred to as Local Organizing Committee (LOC):
- Is highly experienced and qualified
 - Is committed to a quality event
 - Is aware media exposure can make any off-the-cuff statement, “news”
 - Is aware of financial commitment and need for sponsors
 - Includes Technical Delegate as appointed by U.S. Ski & Snowboard or FIS Technical Delegate Working Group representative
 - Includes Referee, and Assistant Referee (speed events) as appointed by the Technical Delegate [601.2.3, 601.4]
 - Includes Forerunners as appointed by the OC
- D. Race Jury
- World Cup: FIS Chief Race Director and FIS Race Director serve as Referee and Assistant Referee for all events – both speed and technical [601.2.1]
 - World Championships and Olympic Winter Games: All Jury members, including Start and Finish Referee, are appointed by FIS and have voting rights [601.2.2, 601.4] and **must** include at least one person of a different gender [601.4.1.4]
 - **ICR**: For international races, the Jury **should** include one person of a different gender [601.4.2.3]
 - In all other races* the Technical Delegate appoints the Referee and for Downhill and Super G, the Assistant Referee [601.2.3]
 - By appointment, the above become members of the Organizing Committee [601.2.4]
- *Referee, Assistant Referee, and Course Setters are appointed by Nor-Am Cup Committee for Nor-Am Cup events. These officials may also be appointed by U.S. Ski & Snowboard for Championship events.
- E. Additional support officials, as required, have a high level of certification, knowledge, and experience
- F. Professional Timing Company and Timing System Requirements [611]
- G. FIS Computer Company
1. FIS Points
 - a. Validity [4.2.4 – the current season]
 - b. Rule Observance [1.1 – rules not observed; race not scored]
 - c. FIS List [5.1 – FIS List is only available electronically]
 - d. FIS Points may only be corrected by the FIS Office. FIS Points marked “C” on FIS website version of FIS Points List are verified as being “confirmed”.
 - e. FIS Base Points are calculations based on prior season’s results, have not been adjusted for the next season and are posted for informational purposes only. *Points posted in the*

Season 2025 FIS Base Points List must not be used for event seeding or penalty calculation purposes.

2. **Continental Cup:** Updated Nor-Am Cup Points (updated after every event), are used for seeding of the first group of fifteen (15). The first group of 15 is followed by 450-overall cup point holders, and top 30 WCSL competitors present for event. Nor-Am Cup Points are then used to fill to the 30th position. After the 30th position, seeding is done by current FIS Points.
 - a. Entry to Nor-Am Cup events is quota controlled.
 - b. The **Overall 450-point holders from prior season** not included in first group are seeded at 16th position (if more than one, seed by Overall Points; if tied, seed by event NAC Points; if tied, seed by FIS Points; if tied, draw for start position).
 - c. Any Overall 450-point holders who were injured and unable to utilize special seeding during previous season may use it at the first 3 races of the following season. This is valid for a maximum of 3 starts irrespective of the events.
 - d. The Overall 450-point holders are followed by entered competitors ranked within the top 30 of the WCSL (World Cup Start List) for the respective event.
3. **World Cup:** Updated World Cup Points (updated after every event), are used to seed first group of thirty (30).
 - a. The Overall 500-point holders from among top 30 WCSL present are seeded at 16th position
 - b. Any Overall 500-point holders from remainder of field are seeded no later than 31st position

*** Refer to current Continental Cup Rules and World Cup Rules if more detail is required.**

III. What is SCORING?

A. Dimensions of scoring are:

To ensure that ALL scoring functions come together and function as a unit: Classic ICR descriptions are found as follows: Chief of Timing & Calculations [601.3.6]

1. Chief Timekeeper [612.4]
2. Assistant Timekeepers (Manual/Hand Timekeepers) [612.5]
3. Finish Controller [612.6]
4. Chief of Calculation [612.7] (When appointed.)

B. Scoring interacts with:

1. Timing/Data Company
2. Announcer, Scoreboard and an Official Notice Board

Announcer should be available to announce competitors' *unofficial* times. Announcer should also announce DSQ's. When an announcer is announcing *unofficial* times, DSQ competitor data announcement may be used to replace actual posting of Report by the Referee. *Team Captains must be notified beforehand if announcement of DSQ information is going to replace actual posting of the Report by the Referee.* [617.2.2]

The scoreboard as well as the Official Notice Board are usually located at or near the finish. However, the OC may advise participants that they choose to only use an online format for either or both of these items. In each case – actual or online – the rules are satisfied; *unofficial* results and other documents such as the Report by the Referee are made available for review.

The Official Notice Board can also be replaced by an official communication channel; e.g., WhatsApp, Live-Timing, etc. [617.2.3]

Rules do not specify which system – acoustic, visual, or online – is preferred. Team Captains must be notified at the Team Captains’ Meeting if official notices (DSQ’s, etc.) are going to be communicated via an actual board, an announcer, or online posting.

3. Race Secretariat/Race Administrator
It is strongly recommended the Race Administrator not assume additional duties beyond those required for the position. Accurate event documentation is imperative for all events as these documents may be required in a legal review. ***This becomes even more critical with the additional duties required in order to be in compliance with MAAPP and SafeSport Code.***
4. Press Chief
5. Technical Delegate
 - a. Verifies timely synchronization of timing equipment
 - b. Verifies accuracy of Official Results and Penalty
 - c. Verifies accuracy of data contained in “Timing & Data Technical Report Form” (TDTR) as prepared by the Chief of Timing & Calculations, prior to its electronic transmission to FIS and U.S. Ski & Snowboard. **(Accurate preparation and submittal of the TDTR is the responsibility of the Chief of Timing & Calculations; it is not the responsibility of the Race Administrator or any other official.)**
 - d. Provides a signed PDF copy of TDTR for Race Administrator files (signed by both the Chief of Timing & Calculations and the Technical Delegate).
 - e. Verifies Replacement Time Calculations (EET’s) are submitted in accordance with current non-FIS and FIS requirements.
6. Referee (Report by the Referee).
 - a. Chief of Timing or Assistant should track/enter NPS, DNS, and DNF bib numbers on the Report by the Referee
 - b. Chief of Timing should meet with Referee (and Assistant Referee for speed events) and assist with entering DSQ competitor data, e.g.: Name, team, name of Gate Judge, type of fault, and either gate # where fault occurred or rule number applicable to infraction.
8. A competitor is “Not Permitted to Start” (NPS) [627] who:
 - a. Wears obscene names and/or symbols on clothing and equipment
 - b. Behaves in an unsportsmanlike manner in the start area
 - c. Violates the rules in regard to the competition equipment and commercial markings
 - d. Trains on a course closed for competitors
 - e. In training for Downhill, has not participated in at least one timed training run
 - f. Does not wear a crash helmet that conforms to the Specifications for Competition Equipment [606.4]
 - g. Does not have ski brakes on their skis [606.3]
 - h. Does not wear or carry an official start number* according to the rules

****An “official start number” refers to any bib issued by the local event organizer; this includes replacement bibs furnished by the Start Referee.***

9. Recording “NPS” Situation - U.S. and FIS Events
 - a. Due to rule(s) violation(s), athlete is not permitted to start; this could apply to either run of a 2-run event and must be noted on the Start Referee’s Report; Jury must be advised.
 - b. Software will include “NPS” designation
 - c. If the **old** Report by the Referee is being used, athletes who are not permitted to start (NPS) should be clearly noted on the Report by the Referee.
 - d. If **new** Report by the Referee posted in the MPF on the U.S. Ski & Snowboard website is being used, the athlete’s status is recorded in NPS section; bib #, name, club/nation and reason (in “Note” section).
 - e. If the **new** Report by the Referee posted on the FIS website is being used, a section is only provided for documenting bib #'s for NPS athletes.
 - f. Technical Delegate must verify accuracy of Official Results and Penalty posted on U.S. Ski & Snowboard/FIS websites.

NOTE: Due to *force majeure*, the Technical Delegate may prepare, sign, and post the Report by the Referee or may assign this duty to another official. A Report by the Referee signed by the Technical Delegate or designee is valid.

10. Jury [601.4.6-601.4.7]
 - a. In cases of system malfunctions, e.g.: timing systems or absence of a gate, Jury allows reruns [623.1.2; 623.2.5]
 - b. In cases of doubt, Jury allows provisional reruns not based on system malfunctions
 - c. In cases of doubt, Jury allows provisional starts
 - d. Confirms validity of provisional starts and provisional reruns
 - e. Establishes start intervals for GS, SG, and DH and communicates the intervals (fixed/regular) to Chief of Timing or assistant.
 - f. In cooperation with Chief of Timing or assistant, establishes start intervals for Slalom (non-fixed/irregular)
 - g. In accordance with rules regarding minimum start intervals, establishes start intervals for Giant Slalom, Super G, Downhill Training, and Downhill
 - h. Confirms start intervals for Giant Slalom, Super G, and Downhill and communicates any changes with Chief of Timing or assistant
11. Provides instruction to manual/hand timekeeping crew in order to provide required manual timekeeping that is consistent and accurate

SUGGESTIONS:

Two suggestions: Neither one will take much effort, but they may be the difference between a race result or a disappointed athlete for whom no time is available.

- Take the time to verify manual devices are still synchronized. A countdown over the radio and a request for the display reading can be done prior to the start. Another option is requesting the manual time for the first forerunner. You will need the manual time for the first athlete, but verification prior to the start of Bib 1 allows time to address any issues.
- If electronic systems fail, immediately verify manual times are available for the racer for whom an electronic time is not available. *This immediate action will indicate whether or not manual*

timekeeping has validity, so you will either be able to calculate a replacement time or authorize a rerun.

- C. **QUALITY** - Establish confidence in "Real Time" timing/scoring presentations
1. Familiarize yourself with available timing systems: Start, Finish, Net Time
 2. Verify scoreboard is available with: Bib #'s, Names, Unofficial Times
 3. Verify location of intermediate timing points
 4. Verify location and accuracy of video displays
 5. Furnish progress reports to media with respect for deadlines
 6. Document NPS, DNS, and DNF on Report by the Referee and be available to verify NPS and DSQ competitor data, e.g.: Bib, Name, Team, Gate or Rule # for violations other than incorrect passage
 7. Aid in preparation of accurate official reports according to format

IV. Initial Actions of Scoring are:

- A. Coordinate with the following:
1. Secretariat: Verify Race Administrator is using updated race result software, current/applicable Points List(s), and confirmed technical data, etc.
 2. Timing Company: Verify use of homologated timing equipment
 3. Scoring Computer Operations: Verify scoring software has been updated and is compatible with race result software
 4. Chief of Manual/Hand Timing: Verify availability of supplies, equipment, and knowledge of procedures as well as operation/functions of manual/hand timing equipment
 5. Technical Delegate
 - a. Confirm timely synchronization of timekeeping equipment: electronic and manual
 - b. Prepare Timing & Data Technical Report in PDF format (TDTR) for Technical Delegate's review prior to electronic submission of TDTR XML file. When approved, TDTR PDF paper copy is signed by the Chief of Timing & Calculations and the Technical Delegate.
 - c. Electronically submit Timing & Data Technical Report, as required
 - d. Electronically submit Replacement Time Calculations (EET's), as required
 - e. Provide consistency and accuracy
 - f. Be available to verify all official times
- B. Facilities and Schedules
1. Verify schedule for Team Captains' Meeting and plan on attending. *If meeting is online, verify time and platform details have been communicated to all teams and that adequate connectivity is available*
 2. Verify schedule for creating seed board
 3. Verify location of Press Room and identify press room liaison personnel
 4. Verify location and availability of results reproduction facilities
 5. Inspect Finish Building and Finish Line/Finish Area [615.2]
 - a. Finish Photocells: Are they homologated?

- b. Width between Finish Posts
 - 1.) DH and SG finish line dimensions – no less than 15 m*
 - 2.) SL and GS finish line dimensions – no less than 10 m*
 - 3.) Line is marked horizontally with a coloring agent so that it is clearly visible to the approaching competitor
 - 4.) Timing equipment/competitor security installation
 - *Distance is between finish posts/banners not length of finish line. Timing posts must be at least this far apart. The Jury may decrease this distance for technical reasons.
- 6. Start Area, Start Facilities and Start Gate/Area specifications [FIS Alpine Skiing Timing Booklet]
 - a. Homologated Start Gates
 - b. Dimensions
 - 1.) Width: Support posts should be 50 – 80 cm apart
 - 2.) Wand should be mounted approximately 35 – 50 cm from the snow
 - c. Start Wand Installation
 - 1.) Description: small diameter rod
 - 2.) Mounting
 - a.) Only one wand is permitted
 - b.) Wand cannot be so stiff that it could cause injury or not break, but must be stiff enough to eliminate false starts
 - c.) Wand must stay open once it is triggered; *auto return wands are not permitted*
 - d.) Duplicate start wand must be on hand for replacement purposes
 - e.) Mounted horizontally above the starting line and at an elevation that places it at or below a racer's knees
 - f.) Mounted on a hinge. As the racer propels forward across the starting line, the wand is forced to swing forward and to the side by the racer's leg. Placement of start gate must be marked on the support posts.
 - g.) Replacement must be with identical gate, at same position and with same rotation
 - h.) If two start gates are used in concert, they must be solidly mounted on same physical bracket. Both mechanisms and box must be stiffly connected together.

NOTE: Refer to current FIS Alpine Skiing Timing Guide for information regarding angular range and accuracy of the start wand.

- 3.) Starting Gate
 - a.) Minimum of 2 electrically isolated contacts activated by 1 wand.
 - b.) Timing wires must be connected to separate start gate contacts using separate connections.
 - c.) Wand must be installed so that starting is impossible without it opening.
 - d.) Exact replacement gate must be available, if required due to failure
- 4.) Communication
 - a.) Wiring between the start wand and the timekeeper's booth is generally available

through another pair of wires or is piggybacked onto an existing pair – usually backup.

- b.) A headset may be plugged into a jack at the start so that the Starter can be in constant voice communication with the timing room
7. If possible, accompany Jury on course inspection and check for the following:
- a. Location of “yellow flag” zones and “blind” areas. Yellow flags are required for DH and SG. *Depending on terrain and/or course set, the Jury may also require them for GS*
 - b. Staffing and location of Manual/Hand Timekeepers (Assistant Timekeepers)
 - c. Staffing and location of intermediate timing positions, if required

V. Questions You Need to Ask:

- A. Are all entries in? Are all entries on the Board? *(This is important for Downhill Training where rules require that all qualified competitors be entered and drawn in all training runs.)*
- B. What computer-scoring program is being used? Has it been updated? Is the operator familiar/comfortable with its use?

NOTE: VOLA will now require use of a “new generation dongle.” The old dongle will no longer be updated, and technical support will not be available.

Users who returned the old dongle to Jeff Weinman prior to 31 October 2024 received a replacement free of charge. Users who did not return the dongle prior to that date, will have to pay an CHF 89 fee in order to receive one.

Complete information is available at: vola-racing.ch/en/timing/logiciels/utilitaires/vola-board

- C. Does it meet the requirements of 611.3.5, which requires that computer software that calculates net times must use precision of ToD as used in the timing device?
- D. Is the correct and current Points List available?
- E. Have all the preliminary reports been prepared?
- F. Has the timing room and equipment been checked in advance of the event? **(Refer to MPF #42. Timing Checklist)**
- G. Has all of the required header data been entered in the race file?
- H. What timing equipment is being used? Is the operator familiar/comfortable with its use?
- I. What system will be used to transfer data between results computer and timing
 - 1. Transfer of race file which does not allow the Race Administrator to perform race data editing during race
 - 2. Transfer of timing file which involves only bib numbers, competitors’ names and times does allow for race data editing
 - 3. Verify transfer process been established and tested: email, cloud, or thumb drive and runner
- J. What start gate is being used?

- K. What finish photocells are being used? Photo Finish timing has been approved for use at FIS events for *backup purposes only*. FIS has established criteria for photo finish systems, and they must be followed (see current edition of FIS Alpine Skiing Timing Booklet). ***Required for Level 0 FIS competitions, e.g., OWG, WSC, WC, COM, WQUA.***
- L. Is all equipment: timing equipment, start gates, and finish photo cells on the current homologated lists? [611.2]

NOTE: All timekeeping equipment MUST meet stipulated standards. Use of equipment that does not meet standards will result in an event not being considered (scored).

- N. Are requirements for electronic data transmission of Official Results and Penalty – wireless or network – in place?

It may seem that we are delving into areas of responsibility belonging to other officials; however, it is necessary to verify all interfaces have been established, tested, and are functioning smoothly and efficiently. There is not enough time to try to establish or fix procedures while the competition is in progress. The Chief of Timing & Calculations or Scoring – in cooperation with other officials – should evaluate these interfaces and take whatever action is necessary to get the job done without sacrificing QUALITY!

VI. Quality Assurance Actions:

- A. Team Captains' Meeting, Seeding and the Draw. According to National and FIS rules, the draw must be conducted (or confirmed) at a Team Captains' Meeting. A Team Captains' Meeting, attended in person or online by Team Captains, Jury, and race officials is an inseparable and mandatory part of the competition and is important for communication of Jury instructions, support of the OC, as well as conveying OC requests and information. ***It is also a critical element for risk management and liability-related matters.*** [Refer to 621.8, 604.3]

With the approval of the Jury and at a time and place announced to all Team Captains, and where a computer-generated draw* has been approved or is not required (e.g.: Event where TRS by class and gender is used to determine the start order), an informational meeting is still required. The meeting may be held either immediately after the completion of a race for the next day's event or on the morning prior to a race.

1. Keep in contact with Secretariat (RA)
2. Attend Team Captains' meetings
3. Review the Seed Board before and after the Draw
 - a. Verify accuracy of the Board
 - b. Verify seed-point ties are identified
 - c. Verify correct seeding of competitors entitled to 16th/31st position, if applicable (U.S. "Golden Rule," FIS Nor-Am Cup, and FIS World Cup)
 - d. Verify grouping of competitors without points
 - e. Verify additional special seeding groups as authorized by the Jury
4. Verify correct application of rule regarding "Snow Seed"
5. Verify number of available Forerunners
6. Independently record the Draw
7. Verify the Start or Training List against the Board

- a. Verify header information against the appropriate source: Homologation file **
- b. Verify accuracy of footer information

NOTE: USE OF ELECTRONIC SEED BOARDS: Electronic seed boards should have the capability to **simultaneously and legibly display the entire competition field**. Simultaneous display of all competitors allows all Team Captains and officials to verify the overall accuracy as well as additions and deletions to the starting order in “real time”. *Using the race result software to display portions of the competition field is not acceptable.*

* It is important to remember that computer-generated draws are governed by a random identifier and unless this identifier is changed prior to each draw, results of a draw involving the same competitors may only have minimal changes. Only the software writer has the access required to change a random identifier.

** **NOTE:** Homologation files are available for review on the following websites. The websites are the only valid sources for verification of a course homologation:

media.usskiandsnowboard.org/CompServices/Homologation/
(Login is required: **User ID = homologation; Password = Allout2022!**)

fis-ski.com/DB/alpine-skiing/homologations.html
(Maps, photos, reports, etc. not accessible at this site.)

A new inspection of an existing course (FIS or National) voids the previous homologation of an existing course.

B. Downhill Training

1. Verify all timing equipment and personnel will be in place for all training runs
2. Verify accuracy of Start List in scoring computer
3. Address intermediate timing considerations
It is best to coordinate with the Technical Delegate and the Jury for placement of intermediate timing equipment. To avoid the cells being triggered by anyone other than the competitors, it is recommended that the person responsible for intermediate timing points use a push-button to arm the photocells when a competitor crosses the line.
 - a. Timing equipment operators
 - b. Necessity of having on-hill operators
4. Data Presentation
 - a. Verify that scoreboard, either electronic or paper, is available to display competitors' unofficial times
 - b. Verify that forerunners' times will not be displayed
 - c. Verify accuracy of time-of-day printouts
 - d. Verify status of press room video displays, if available
 - e. Verify status of Announcer's display, if available
5. Press Reports (UNOFFICIAL) Standard format not required
 - a. Establish contact with Chief of Press
 - b. Establish system for press report production and distribution
 - 1.) Verify accuracy of documents released to press
 - 2.) Keep copy of all documents released to press

- 3.) Coordinate with Press Room for electronic transmission if no runner is available
6. Other Reports
Accurately prepare all required reports in a timely manner
- C. Race Day - Be prepared for the unexpected.
1. First Run
 - a. If possible, attend Jury inspection
 - b. Verify schedule
 - 1.) A run or race that is rescheduled for a later time slot ***on the same day*** is **delayed**
 - 2.) A run or race that is rescheduled to a different date ***within the series*** is **postponed**
 - 3.) A run or race that is ***started but cannot be completed*** is **terminated**. There is no set number that has to start or finish. If even one forerunner has started and the Jury determines that the event cannot continue, it is a “terminated” event.
 - 4.) A run or race that cannot be rescheduled ***within the series*** is **canceled**; cancellation of an event vacates the U.S. Ski & Snowboard race code/FIS codex and invalidates the event liability insurance.
 - c. Verify number of 2nd Run “Bibbo” [Reverse 15? 621.11.3, 617.3.3]
 - d. Verify synchronization checks with TD; compile data for the “Timing & Data Technical Report”
 - 1.) Online filing of the TDTR XML file is required for all **FIS** events. The required program is currently available at fis-ski.com/en/inside-fis/document-library/timing-data. It is available for Windows 10, 11, and macOS 10.14+ and is updated as required. Software will alert when an updated version is available; please update to current version.

A PDF paper copy of the TDTR, as well as any required Replacement Time (EET) calculations, must be made available for inclusion in required Race Result Document Packets as noted in “Distribution of Documents – FIS Events.”

Replacement Time Calculations (EET’s) must be submitted as an attachment to the TDTR submitted to FIS, and copies must also be made available to satisfy national submittal requirements.
 - 2.) The FIS TDTR software is also used for preparing and submitting a TDTR XML file for **non-FIS** events. The software will produce the required PDF paper copy report. The software will accept a “National Race Code” which is used for a U.S. Ski & Snowboard Race code number (alpha character + 4-digit number). “Race Codex” may require data, and “JUN – Junior” category must be selected. (Refer to current TDTR tutorials for additional information; TDTR PPT is available on the U.S. Ski & Snowboard website.)

The U.S. TDTR available in the MPF on the U.S. Ski & Snowboard website is only intended to assist in gathering data for entry into the FIS TDTR software.

As with FIS events, a paper copy of the TDTR as well as any required Replacement Time (EET) calculations, must be made available for inclusion in the required PDF Event Document Packet. The calculations must be included with the TDTR submitted to: tdtr@usskiandsnowboard.org.

- e. Verify course and weather data for headers and communicate the information to Race Administration
 - f. Follow preparations of timing and computer operations
 - g. Verify instructions for manual/hand timekeeping crew; e.g., operation of manual/hand timing equipment and required procedures
 - h. Verify Downhill and/or Super G competition course length measurement has been accomplished by wheel, tape, or GPS
 - i. Recheck start order in computer
 - j. Plan press report production; follow plan
 - k. Keep "Report by the Referee" up to date by noting bib #'s for NPS, DNS, and DNF competitors
 - l. Observe timing company operations
 - 1.) Verify accuracy of time-of-day printout
 - 2.) Verify accuracy of interval timing reports prior to distribution
 - 3.) Make notes on Start List; especially important for documenting anomalies
 - 4.) If possible, track differential between primary and backup timing
 - 5.) Identify five best (lowest) point holders who start race regardless of result
 - m. Print unofficial listing immediately after last competitor finishes
 - n. Meet Jury at finish with complete unofficial listing and "Report by the Referee"
 - 1.) Assist Referee/Assistant Referee with review of Gate Judge Cards
 - 2.) Provide a copy of unofficial competitors' ranking for the Technical Delegate
 - 3.) Deliver DSQ list to announcer
 - o. Publish Unofficial Results report
 - p. After protest period has expired, verify with computer operations and/or Race Administrator that the appropriate action has been taken on DSQ's
 - q. Print/verify 2nd Run Start List or 1st Run Results
 - r. Verify Race Administrator has been made aware of any Jury decisions that may require documentation (Jury Minutes), e.g.: application of snow hardening agents, change in start order, change in start times, change in announced start intervals for Giant Slalom, Super G, Downhill Training, and Downhill.
 - s. Although not necessarily part of your responsibilities, notify Race Administrator of any incidents that may require filing of injury reports
2. For Second Run of Two-Run Events
 - a. Compile data for preparation of the "Timing & Data Technical Report"
 - b. Verify 2nd Run cutoffs
 - c. Verify accuracy of Second Run Start List. [6.21.11]
 - 1.) "Bibbo;" check for ties at last position of flipped group (30th or 15th)
 - 2.) Verify start order of ties outside of "bibbo"
 - 3.) For events not using an Alternate Seeding System (TRS, etc.), verify if 1st Run NPS,

DNF, DSQ competitors are included on 2nd Run Start List after the last 1st run classified competitor

- a.) Suggested Procedure for Tracking 1st Run NPS (track in DNS section), DNF, DSQ athletes in 2nd Run:

The Chief of Timing & Calculations and the Race Administrator account for all competitors, and the U.S. Technical Delegate Report requires documentation of these calculations. For events where 1st Run NPS, DNF, and DSQ athletes are allowed to start in the 2nd Run, this can create a unique challenge.

It is important that the Chief of Timing & Calculations continue recording after all classified 2nd-run starters have completed their run. Not continuing to record 1st Run NPS, DNS, and DNF competitors who are being allowed to take a 2nd Run will result in an incomplete record of the event, so the following recording method is suggested:

- Start Referee notifies Timing when last classified 2nd-run starter has left the start
- Chief of Timing & Calculations (or assistant), makes appropriate notations in the DNS and DNF sections of the Report by the Referee

Report by the Referee will now concisely reflect how many actual 2nd Run DNS and DNF competitors are to be considered in the calculation of “Finishers/Total Ranked” on Official Results.

The following is suggested method. Chief of Timing or assistant may use recording method of their choice; e.g.: End 2nd Run, Run 1 Racers, etc.

Did not start (No.)/Pas au départ (No.)/Nicht am Start (Nr.)		4	27								
2nd Run complete	18	34	42								
Did not finish (No.)/Pas à l'arrivée (No.)/Nicht im Ziel (Nr.)		1	7	23	29	31	37	41	45	49	52
	65	72	77	81	82						
2nd Run complete	6	15	21	34							
Time published / Heure d'affichage / Anschlagzeit H:mm		Deadline / Délai / Ablauf H:mm			Date / Date / Datum m/dd/yy			Signature Referee Signature du juge arbitre Unterschrift des Schiedsrichter SI			

- d. Complete additional duties performed during 1st run
- e. If time permits, complete hand calculation of Penalty and include calculation draft when meeting with Technical Delegate after race.

D. USA Wireless Timing Application

Wireless timing has been approved for non-championship events. If an Organizing Committee wishes to use wireless timing, they must complete an online application (forms.gle/DsHR5Hi6pvy7w1EG6). Refer to MPF #15. USA Wireless Timing Application for details.

The following section is useful for areas that do not require attendance at a Continuing Education Clinic (Update) prior to attending a specialty-area clinic. It includes update and review items that apply to both Timing & Calculations and Race Administration.

- VII. Update and Review for Continuing Education:** [Contains portions of “2024-2025 Update & Review for Continuing Education”; please refer to original document for additional information; 2025 edition of U.S. Ski & Snowboard ACR, online edition of current ICR and, if applicable, current Precisions].

PLEASE NOTE: The following is current as of 01 October 2024. U.S. Ski & Snowboard and/or FIS decisions made in meetings following that date which may affect rules and event operating procedures will be published in Season 2025 Precisions. Please review applicable Precisions upon their publication.

U.S. SKI & SNOWBOARD COMPETITION CONTINUING EDUCATION (UPDATE) SEASON 2025:

1. MEMBERSHIP – UPDATE & CLARIFICATIONS

- The Sport Education Academy (SEA) will offer modules for safety training for Alpine Officials. Access to the training is through the Bronze Tier which does not require a SEA registration fee. Training topics include Avalanche, Heads Up Concussion Training, First Aid, CPR, and DEI. This training is only a “recommendation” and is not required in order for an Alpine Official to officiate or be granted race arena/venue access as required by their official duties at any U.S. Ski & Snowboard event. Completion of the modules, however, is required for Level 100 Coaches. For additional details, contact sporteducation@usskiandsnowboard.org.
- Race Administrators must verify that coaches’ membership status; e.g., SafeSport Training and background screening is valid (not pending). The Race Administrator must also verify the coaches’ non-presence on the Central Disciplinary List. These verifications are required prior to granting event credentials and race arena/venue access.
- Required certification and continuing education (last clinic: Season 2024 or Season 2025) must be current for Chief of Race, Referee, Assistant Referee, Start Referee, Finish Referee, Course Setters, Chief of Course, and Chief of Timing & Calculations.
- Required certification and continuing education (last clinic: Season 2025) must be current for Technical Delegate and Race Administrator.

2. FORERUNNERS – UPDATE & CLARIFICATIONS

U.S. Ski & Snowboard event: Forerunners must hold a current U.S. Ski & Snowboard membership; e.g., Competitor, Coach, Official, Volunteer, Master w/Requirements, Non-Scored Athlete, Short-Term Athlete, or General.

NOTE:** Coach, Official, and Volunteer memberships may be accepted in order for an individual to serve as a forerunner. Coaches must take note, however, that forerunning may not be included in the duties outlined in their club employment contract. **In addition, regardless of the type of membership, an event’s equipment regulations apply to all forerunners.

FIS event: Forerunners must hold current U.S. Ski & Snowboard membership and FIS inscription or membership in a foreign federation recognized by FIS. In cases of *force majeure*, where a sufficient number of FIS-inscribed forerunners are not available, an eligible U.S. Ski & Snowboard member may forerun after signing a FIS Athlete’s Declaration. [605.1]

***NOTE:** FIS Athlete Declaration requires a parent or legal guardian’s signature for an athlete who is not of legal age.*

Adult Forerunners – Minor Participants: Adult (18+) forerunners at events that include minor participants (U18 and younger) are required to be in good standing with a membership that includes SafeSport training and background screening. *The “Alpine Master” and “Short-Term Alpine Master” memberships do not meet this requirement and are not allowed.*

Masters Events: U18 and younger forerunners, including those with General and Short-Term Memberships, at Masters events where competitors may have the “Master” or “Short-Term Alpine Master” memberships that do not include SafeSport Training and background screening must be accompanied by a parent or legal guardian or at least two (2) U.S. Ski & Snowboard members with a membership that includes SafeSport training and background screening (e.g., Coach w/Official, Official, Volunteer, Masters w/requirements).

As with all U18 and younger events, if U18 athletes will be forerunning a Masters event, a communication pertaining to athlete safety policies must be sent to all participants, and the QR code must be posted at the registration area.

A list of approved Forerunners must be provided for the Start Referee. This is critical if a Condensed Start List is being generated or the race result software does not provide enough space to list the names of all approved Forerunners.

3. JURY COMPOSITION

U601.4.2.3: The Jury should, where possible, include one person of a different gender.

4. TIMING

- U611.2.1: For all events sanctioned by U.S. Ski & Snowboard, two synchronized electronically isolated systems operating in time-of-day must be used. (All other sections of U611.2.1 remain in effect.)
- U611.2.2: Printed records, either automatic, handwritten, or memorized electronically of recorded hand times must be immediately available at the start and at the finish.

5. RANDOM SEEDING – TRS (BUTTERFLY) - UPDATE & CLARIFICATION

TRS (Butterfly) seeding has been approved for scored and non-scored, multi-day races. The approved system is as follows:

- Day 1/Run 1: Randomize athletes within gender/age group to create the initial start list.
- Run 2: Reverse (flip) Run 1 start order.
- Day 2/Run 3: Divide each group by two and move bottom group to top of start order. (Example: 6, 7, 8, 9, 10, 1, 2, 3, 4, 5.)
- Run 4: Reverse (flip) Run 3 start order.

NOTES:

- DNS, DNF, or DSQ athletes stay in their original position for all runs. (They are not moved to the end of class/field.)
- Age Groups are typically started in order of youngest to oldest.
- If one of the events is speed (Downhill or Super G), a new randomization is typically done.
- If required from an athletic standpoint, Team Captains may request that the Start Referee increase the interval prior to an individual athlete’s start. (Start Referee must announce any start interval changes over the Jury radio channel.)

INSERTIONS FOR SECOND DAY OF A MULTI-DAY SCORED OR NON-SCORED EVENT (Run 3)

When new athletes need to be inserted in an existing seed, the following procedure shall be followed:

- New athletes will be inserted after the racer whose position is 1/2 of the start order for Run 3.
- The list will be expanded to include all new entries to the first half of the list.
- The second half of the draw will remain the same.

Example: Field is 20 athletes; first group is 10 athletes; 3 new athletes will be added at positions 11, 12, and 13.

6. GOLDEN RULE - UPDATE & CLARIFICATION

- Events using TRS (Butterfly) Seeding:

Athletes who have been granted Golden Rule Seeding will be seeded 16th+ in all runs or races of the same series unless original start list preparation/flip/butterfly affords them a more favorable (earlier) start position.

- Events not using TRS (Butterfly) Seeding:

- For all events, First Run U621.3.1: Adaptive athletes will be seeded in special groups with start order: 16-20, 36-40, 56-60, etc., or by seed points, whichever is more favorable. (Placement within groups is by national point ranking.)

- Second Run with Flip 30 U621.11.3.2: Adaptive athlete groups will start in the 31st position unless first-run time affords a more favorable (earlier) start position. (Placement within groups will be by the results of the first run.)

- Second Run with Flip 15: Adaptive athlete groups will start in the 16th position unless first-run time affords a more favorable (earlier) start position. (Placement within groups will be by the results of the first run.)

- Adaptive athletes who are shown as DNS, DNF, DSQ, or NPS in the first run can start in the second run with their original bib immediately after the last qualified competitor has completed their run.

- Athletes who have been granted Golden Rule seeding may compete using the equipment appropriate to their disability.
- Adaptive athletes who are visually impaired will be accompanied by a guide. The guide provides verbal instructions to the athlete and is accorded the same consideration as the athlete. Start Referee should skip a minimum of one start interval following the start of a visually impaired athlete and their guide.

7. TIMING & DATA TECHNICAL REPORT (TDTR) - UPDATE & CLARIFICATION

A Timing Data Technical Report (TDTR) is required for all levels of competition, and the FIS TDTR software is used for preparing and submitting the report for all events, both non-FIS and FIS. *Software is available for Windows 10, 11, and macOS 10.14+; it is updated as required.*

The Chief of Timing & Calculations – not the Race Administrator or other official – is responsible for the preparation and filing of the Timing & Data Technical Report (TDTR) for all events. (The U.S. TDTR in the MPF is only intended for gathering data for entry into the FIS TDTR software.)

If an event requires calculation of a replacement time (EET), copies of all calculations must be included in the PDF “Event Document Packet.”

The calculations must also be included with the XML copy of the TDTR submitted to: tdtr@usskiandsnowboard.org.

8. KOMBI - UDPATE & CLARIFICATION

- **U1259** and the course setting matrix will be expanded to include specifications for GS/SG Kombi. Please refer to current Alpine Competition Guide for complete details.
- Kombi events must be set using appropriately homologated/approved hills. Hills homologated/approved for Giant Slalom may be used for Slalom/Giant Slalom Kombi as well as Giant Slalom/Super G Kombi.
- With the exception of specific rules applying to course setting, rules are those that apply to the faster portion of the event: e.g., Slalom/Giant Slalom events are governed by Giant Slalom rules. Giant Slalom/Super G events are governed by Super G rules; e.g., Start commands and start intervals.

U1259.10 clarifies in Kombi competitions, athletes must use the helmets designed for Giant Slalom, Super G, or Downhill. Athletes U14 and older must use helmets that meet the FIS standards.

9. WAIVED ENTRY / LIFT FEES

Named members of the U.S. Ski Team (A, B, C, or D) and the U.S. Paralympic National Alpine Skiing Team (A, B, C, or D), are entitled to waiver of entry and lift fees at all U.S. Ski & Snowboard events. No head tax will be due for these athletes. In addition, please note the following:

- Named members of foreign national teams who are properly entered by their national federations and who are **ranked 200 or better** in the world in one of the events being contested should be provided with complimentary entries and lifts. No head tax will be due for these athletes.
- At pre-determined events (e.g., Nor-Am and U.S. Alpine National Championships), or at the discretion of the OC for other events, regardless of national affiliation or national team status, athletes who are **ranked 100 or better** in the world in one of the events being contested should be provided with complimentary entries and lifts. If applicable to the level of event, head tax will not be due for these athletes.
- **NAC ONLY:** Named members of foreign national teams who are **ranked 350 or better** in the world in one of the events being contested are entitled to complimentary entries and lifts. In addition, foreign athletes enrolled in North American schools, clubs, or universities will be entitled to complimentary entries and lifts if they are **ranked 100 or better** in the world in one of the events being contested, regardless of their national team status. (NAC 2.4.2) Previous season's Continental Cup event winners are also entitled to complimentary entries and lifts. (NAC 2.4.2.1)

NOTE: Some organizers may not be able to provide complimentary lift tickets as they are passing along costs from the host resort.

10. TWO EVENTS / SAME DAY

U202.2: A maximum of two scored SL, GS, SG, or DH races per day, per gender, may be calendared per day by an organizer.

U202.2.1: In cases where more than one SL or GS race, per gender, is conducted in one day and in one place, then the official Program showing inspection times, start times, course reset/redress times and start intervals for both races must be included with the race results packet submitted to U.S. Ski & Snowboard.

11. EVENT REGISTRATION and HEAD TAX CALCULATION/VERIFICATION/PAYMENT

U.S. Ski & Snowboard does not provide an online Event Registration platform. Race Organizers are encouraged to use systems currently being provided by private vendors; (e. g., skireg.com or adminskiracing.com). Regardless of whether or not the registration system of choice calculates and submits required Head Tax, the Organizing Committee is responsible for calculation, verification, and payment of all National, Regional, and Divisional Head Taxes.

If the registration system of choice does not calculate and submit required Head Tax, the calculation forms and required payments must be submitted to Competition Services; copies should be retained in the Organizing Committee's event file. If the system does calculate and submit the required Head tax, the calculation forms should be retained in the Organizing Committee's event file.

Applicable head taxes must be submitted in a timely manner. Organizers who fail to submit head taxes risk loss of Club Certification and the ability to host other competitions until coming into compliance.

12. FIS EVENT ENTRY AUTHORIZATION LETTERS (TRAVEL LETTERS)

- Only National Ski Associations (Federations) are entitled to make entries for international competitions.
- Some foreign federations may issue an entry authorization (travel) letter which allows foreign athletes training with U.S. Ski & Snowboard clubs or attending USA schools/colleges/universities to be entered by their coaches.
- Several nations, e.g., Austria, Canada, Great Britain, and Spain currently do not issue authorization (travel) letters; entries for competitors from these nations must originate from the respective Federation; cover email should be retained in the Organizing Committee's event file.
- Entries submitted by the foreign Federation must list the names of all personnel accompanying the athlete(s) and for whom race arena/venue access is requested; e.g., coach, trainer, ski technician, etc.

Due to issues controlling the entry of some non-USA athletes into USA FIS events, U.S. Ski & Snowboard adopted the following policy regarding entry authorization (travel) letters.

- **U.S. Ski & Snowboard will only manage authorization letters for foreign athletes who are also competitor members of U.S. Ski & Snowboard.**
- Authorization letter must be sent to chip.knight@usskiandsnowboard.org it must also be sent to the Regional Manager for the Region where the athlete is training.
 - Letters must be submitted directly by the respective National Ski Association.
 - A list of U.S. Ski & Snowboard foreign athlete members (X membership) for whom authorization letters have been received is available at usskiandsnowboard.org/competition/points/alpine-points. This site will provide a link to the google doc which is updated as information is received.

U.S. Ski & Snowboard's policy regarding entry authorization (travel) letters for foreign athletes who are not competitor members of U.S. Ski & Snowboard is as follows:

- Authorization letter provided by the foreign federation allowing a club/school/university coach to enter an athlete must accompany the official FIS entry.
- Official FIS entry must include the names of all personnel accompanying the athlete(s) and for whom race arena/venue access is requested; e.g., coach, trainer, ski technician, etc.
- Authorization letter must be accompanied by the cover letter from the foreign Federation.
- Accuracy of the following information in the authorization letter must be verified.
 - Date of letter
 - Name, gender, nation, FIS inscription code for athlete
 - Date of applicable season
- Authorization letters will only be recognized for FIS category and below. *Entries for World Cup, Nor-Am Cup, and National Championships must be submitted directly by the respective National Ski Associations.*

NOTES:

- Foreign entries not submitted by actual National Ski Association and for whom no authorization letter has been submitted to U.S. Ski & Snowboard must not be accepted.
- There is a possibility that small groups of foreign athletes may be training in North America and may seek entry into U.S. Ski & Snowboard FIS events. These athletes will be represented by coaches from their National Ski Associations and, because they are not members of U.S. Ski & Snowboard and training with USA clubs/schools/colleges/universities, authorization letters will not be on file with U.S. Ski & Snowboard. *You must contact U.S. Ski & Snowboard Competition Services prior to refusing any FIS entry.*

13. RESULT PROCESSING – XML FILE and EVENT DOCUMENT PACKETS

- Individual event XML race result files are uploaded at: race-results.usskiandsnowboard.org/.
- Following successful uploading of the XML race result file, if the PDF “Event Document Packet” has been completed, it may be uploaded during the same access window as the corresponding XML race result file.
- If the PDF “Event Document Packet” is not completed until after the XML race result file is uploaded, or you are unable to successfully utilize the upload function, the PDF “Event Document Packet” must be emailed to: resultpackets@ussa.org. *The U.S. Ski & Snowboard transmittal number must be used as the email’s subject.*

NOTE: Login for clubs hosting sanctioned events or a previously-approved login for individuals who do not have access to the club login will be required in order to access the upload platform. If an official is unable to log in, contact Competition Services for assistance.

14. ALPINE OFFICIALS’ CERTIFICATION MATRIX CHANGES - UPDATE & CLARIFICATION

- **Race Administrator:** In addition to other requirements, recommendations for advancement from Level 1 to Level 2 must be submitted by two (2) higher level Race Administrators, Level 3 or Level 4 Technical Delegates, or FIS Technical Delegates.

15. START NUMBER or BIB NUMBER

617.3.3 If two or more competitors have the same time or the same number of points, the competitor with the higher start number must be listed first on the official list of results.

- **SplitSecond** breaks a tie in time by defaulting to an athlete’s actual “start number.”
- **VOLA** interprets the “start number” to be the “bib number” and breaks a tie in time by defaulting to an athlete’s actual “bib number.”

Refer to these defaults when inserting an athlete in a start order or assigning an out-of-sequence bib:

- **SplitSecond:** inserting an athlete after the first group and assigning 15A will affect SplitSecond's tie breaking capability because SplitSecond will not accept the start number + alpha character.
- **VOLA:** assigning an out-of-sequence high value bib number to replace a missing bib; e.g., Start 6 wearing Bib 106 will affect VOLA’s tie breaking capability should a tie in time occur, for example, between Start 6 Bib 106 and Start 20 Bib 20; (Bib 106 will be ranked before Bib 20 regardless of the earlier start.)

FIS COMPETITION CONTINUING EDUCATION (UPDATE) SEASON 2025:

1. COMPOSITION OF THE JURY

- **ICR 601.4.1.4:** The Jury must include at least one person of a different gender (applicable at OWG and WSC).
- **ICR 601.4.2.3:** For international races, the Jury should include one person of a different gender.

2. TIMING

- ICR 611.2.2: Printed records, either automatic, handwritten, or memorized electronically of recorded hand times must be immediately available at the start and at the finish.
- If an event requires calculation of a Replacement Time (EET), copies of all calculations must be submitted as an attachment to the Timing & Data Technical Report (TDTR).

3. FIS REPORTS: TD REPORT and INJURY REPORT (ISS)

FIS Alpine events require that the Report of the Technical Delegate be filed online. The FIS Injury Report (ISS) has been incorporated into the online report, so paper copy filing of this document is no longer required for most FIS events.

- A paper copy of the FIS Report of the Technical Delegate will be required for:
 - FIS Masters
 - FIS PARA
 - FIS Children
 - Some canceled FIS events (as requested by FIS)
- A paper copy of FIS Injury Report (ISS) is also required If an injury occurs at any of the following:
 - FIS Masters
 - FIS PARA
 - FIS Children
 - FIS Alpine event that is terminated or canceled (e.g., Downhill event canceled, but an injury occurred in DH Training). There is no result XML file submitted for terminated or canceled events, so an online Report of the Technical Delegate incorporating the FIS Injury Report (ISS) is not available.

If these documents are required, using the FIS-assigned codex number as the email subject, please submit in scanned/PDF format to: (Forms are available in the MPF – Additional FIS Documents.)

flere@fis-ski.com

jeff.weinman@usskiandsnowboard.com

NOTE: Additional documents (e.g., Jury Minutes, etc.), may also need to be submitted.

- FIS Technical Delegates, regardless of their national affiliation, are only responsible for the accuracy and submittal of FIS documents. The accuracy and submittal of any additional documentation required by the NGB, e.g., Results/Penalty based on National Points, U.S. First Report of Injury, etc., are the sole responsibility of the Race Administrator and/or the Organizing Committee.

4. CARRY or WEAR START NUMBERS (BIBS) [614.3.2]

Discussion at FIS meetings resulted in the following clarification: “Carry” means the athletes only need to have the bibs with them; there is no need for the athletes to wear the bibs during course inspection. *This interpretation is also valid for non-FIS events.*

GENERAL REVIEW AND CLARIFICATION - U.S. SKI & SNOWBOARD AND FIS:

1. MINOR ATHLETE ABUSE PREVENTION POLICY (MAAPP) & SAFESPORT CODE

- MAAPP should be implemented alongside the SafeSport Code.
- The responsibility for communication and enforcement of MAAPP and SafeSport policies is the responsibility of the Local Organizing Committee (LOC) as well as other individuals and entities as set out in the Competition Administration Summary, the MAAPP, and the SafeSport Code.
- Administration of MAAPP and the SafeSport Code applies – but is not limited to – events, participation requirements, membership requirements, officials’ certification and continuing education requirements, race arena access, volunteers, etc.
- In order to ensure compliance, all requirements must be continually monitored and completed for same-day participants, and they must be informed of the provisions of MAAPP and the SafeSport Code. This can be accomplished by posting a QR code which, when scanned, provides required information.
- **At least one non-FIS competition will be audited** by the Center for SafeSport during the 2025 season. U.S. Ski & Snowboard may receive only minimal advance notice of the audit, so it is imperative that organizers know, understand, and follow the MAAPP and SafeSport documentation available on the U.S. Ski & Snowboard website.

Please refer to links posted on the U.S. Ski & Snowboard website for access to current information and links: usskiandsnowboard.org/safesport-athlete-safety/safesport-resources.

2. RACE ARENA vs RACE VENUE

The Jury is responsible for technical matters within the **closed competition areas**. [601.4] The **closed competition areas** are defined as the “race arena” which is accepted as being those areas which the Jury inspects and accepts as being suitable for competitors’ presence:

- **within** (the side-to-side fencing) and
- **without** (start area and finish arena) the confines of the competition area and
- any location connected with the competition [223.2.1]

The Jury does inspect and accept:

- the start and finish areas as well as the ingress and egress to these areas
- the racecourse
- the type and placement of the on-hill competitor security

The Jury does not inspect or accept:

- lift areas
- parking lots
- cafeterias
- terrain parks, public trails, team meeting rooms, etc.

In addition to noting that sanctions can be applied and a penalty imposed for “actions within and without the competition area,” **223.2.1** includes conduct within “any location connected with the competition.” These locations include, but are not limited to the following areas that are required for the orderly conduct of an event: Team Captains’ Meetings, Jury meeting areas, timing building, equipment control area. *Neither the “closed competition areas” (within or without the fencing) nor “any location connected with the competition” include lift lines, cafeterias, or parking lots, etc.*

3. SPLITSECOND / VOLA INTERFACE

If the event data is being managed with SplitSecond, but your Chief of Timing & Calculations is timing with VOLA, it is possible to transfer data between the systems. However, it is recommended that only bib #'s and times be imported from VOLA timing to SplitSecond data. If athletes’ names are imported, please verify that any athletes who have double last names: e.g., “VAN HORN, Eric” transfer back from VOLA in the original format: VAN HORN, Eric and not VAN, HORN Eric. The misplaced comma will result in FIS and U.S. Ski & Snowboard autoscore systems rejecting the XML file.

4. U.S. SKI & SNOWBOARD FIRST REPORT OF ACCIDENT

Lockton Companies is the insurance carrier for U.S. Ski & Snowboard; the actual insurers are SiriusPoint America Insurance Company and Zurich. All injury reporting forms and procedures can be found at usskiandsnowboard.org/sport-development/club-development/club-insurance under Participant Accident.

Online filing is preferred, and a copy of the completed First Report of Accident can be printed for inclusion in the required PDF Event Document Packet. If online filing is not an option, the site also includes a 2-page First Report of Accident in PDF format. (*The First Report of Accident in PDF fill-in format is available in the Master Packet of Forms*).

The PDF First Report of Accident requires a name and contact information for the “Technical Director.” Please note this information should be for an individual who is on site and who has access to all injury-related documents; e.g., OC Representative or Chief of Race.

If a First Report of Accident is required for named U.S. Ski Team members, it will be filed by U.S. Ski & Snowboard staff; a copy should be provided for the OC’s files.

5. SKILLSQUEST

- The Jury members for a sanctioned SkillsQuest Tournament are: Technical Delegate, Referee, and Chief of Race. (*The Chief of Race may also be serving as the SkillsQuest Tournament Director.*)
- A SkillsQuest Technical Delegate’s Checklist for U.S. Ski & Snowboard sanctioned SkillsQuest events is available in the Master Packet of Forms.
- Roster of Participants and SkillsQuest **Score Card** (usskiandsnowboard.org/index.php/sport-programs/skillsquest) must be submitted to jeff.weinman@usskiandsnowboard.org.

6. SKI CROSS

Ski Cross was approved to move from Freeski to Alpine. Coordination for events is the responsibility of USASA and the Hole Shot Freeski Tour.

7. WIRELESS TIMING

Wireless timing has been approved for U.S. Ski & Snowboard non-championship events. FIS further restricts its use to FIS Level 3 and FIS Level 4 only. An application for the use of wireless timing at U.S. Ski & Snowboard events has been drafted, and a link to the application is available in the Master Packet of Forms (MPF). Please contact John Jett (jjett@cjtiming.com) or Matt Howard (matt.p1timing@gmail.com) for complete details.

8. MANUAL TIMEKEEPING VERIFICATION SUGGESTIONS

Two suggestions: Neither one will take much effort, but they may be the difference between a race result or a disappointed athlete for whom no time is available.

- Take the time to verify manual devices are still synchronized. A countdown over the radio and a request for the display reading can be done prior to the start. Another option is requesting the manual time for the first forerunner. Completion of the TDTR requires the hand time for the first athlete, but verification prior to the start of Bib 1 allows time to address any issues.
- If electronic timekeeping systems fail, immediately verify hand times are available for the racer for whom an electronic time is not available. *This immediate action will indicate whether or not manual timekeeping has validity so you will either be able to calculate a replacement time or authorize a rerun.*

9. FIS ALPINE SKIING TIMING BOOKLET

A new FIS Alpine Skiing Timing Booklet has been published. *Please refer to current edition of FIS Alpine Skiing Timing Booklet.*

10. COMPETITOR TIES IN FIS PARALLEL EVENTS

- In case of a tie in both runs, the competitor with the lower bib will advance to the next round. [1232.4]
- If both competitors are tied after the second run in the Final and/or the Small Final, competitors will be ranked equally (tied). They will be ordered by descending bib number. [1232.5]

11. HOMOLOGATION FILES

Homologations for Giant Slalom and Slalom courses are valid for 10 seasons. Homologations for Super G and Downhill courses are valid for 5 seasons. New homologations will expire on July 1 of the 10th/5th season of homologation.

Note: The only accurate sources for course homologation data verification are the U.S. Ski & Snowboard and FIS websites. In addition, a new inspection of an existing course (FIS or National) voids the previous homologation of an existing course.

Homologation files may be accessed at: media.us skiandsnowboard.org/CompServices/Homologation/ (Login is required: **User ID = homologation; Password = Allout2022!**)

Files may also be accessed at: fis-ski.com/DB/alpine-skiing/homologations.html; maps, photos, reports, etc., are not available at this site.

12. SUPPLEMENTARY REPORT or an ADDITIONAL REPORT OF THE TECHNICAL DELEGATE

- A Supplementary Report is filed by the Technical Delegate to document event anomalies. Under some circumstances, the Referee may also be required to file a Supplementary Report.
- An Additional Report of the Technical Delegate is used to address issues that may or may not require re-homologation of a racecourse.

13. NO ADVANTAGE – NO DISQUALIFICATION

223.3.3 states: “Competitors shall only be disqualified if their mistake would result in an advantage for them with regard to the end result; unless the Rules state otherwise in an individual case.”

Rules that address grounds for disqualification are:

- **629.2** – jeopardizes the security of persons or property or causes actual injury or damage.

- **629.3** – does not pass through a gate correctly in accordance with Art.661.4.
- **629.3** – does not start within the time limits defined by Art. 613.7.

Please note unsportsmanlike behavior is subject to sanction which may or may not include disqualification. [Art. 223.1.1; Art. 223.3.2]

14. DUE PROCESS [224.7]

Prior to the imposition of a penalty (except in cases of verbal reprimands and withdrawal of accreditation), the person accused of an offense shall be given the opportunity to present a defense at a hearing, verbally or in writing. Defense can include, but is not limited to the following:

- Being advised of infraction.
 - Hearing and considering all testimony and other evidence.
- Questioning all witnesses upon whose testimony the Jury relies.

Considering information from a witness who is unavailable for questioning by the accused would create a serious issue. It is also unwise for Jury members to discuss a situation and consider possible penalties prior to considering all evidence.

The Jury must adhere to the following policy:

- Consider infraction
- Question witnesses – including athlete, coach, Gate Judge, etc. – upon whose testimony the Jury relies.
- Hear and consider all testimony and other evidence.
- Allow accused person the opportunity to present a defense and review all evidence (question witnesses, etc.)
 - Deliberate
 - Make a fair decision
 - Review, vote, and sign prepared Jury Minutes of decision
 - Notify affected parties

15. VALID STARTS, FALSE STARTS [613.7, 805.4] and DELAYED STARTS [613.6, 805.3.1]

- A “false start” violation occurs when a competitor is in the start gate and does not start within the required period with respect to the start command – “GO!”
- Course workers and officials must have a reasonable expectation of when a competitor may be approaching their position. Competitors who either start early or late can minimize this expectation and potentially create an environment that is not secure. For these reasons, false (early/late) start violations require DSQ. **[613.7, 805.4]**
- A “delayed” competitor is one who is not present in the start area or who is not ready to start when called. **[613.6, 805.3.1]**
- A provisional start may be allowed by the Start Referee (*force majeure*) or the Jury (in case of doubt).
- Athletes who are given provisional starts are subject to SANCTION, which *may or may not* include DSQ. However, provisions of Art. 223.3.3 must be met.

16. PROVISIONAL STARTS – IMPORTANT POINTS

- An athlete who is granted a provisional start that is later found to be unjustified is subject to “sanction.”

- Depending on circumstances, the sanction may include a DSQ. Prior to imposing the DSQ, Jury must decide whether or not the competitor's later start provided an unfair advantage, e.g., improved weather conditions, etc.
- A competitor shall only be disqualified if their mistake would result in an advantage for them with regard to the end result, unless the Rules state otherwise in an individual case, e.g., gate fault; false (early/late) starts. **[223.3.3]**
- If a provisional start is not approved, the competitor's status must not be changed to DNS. The only available option is DSQ, but then only if the provisions of Art. 223.3.3 have been met.

17. COLLECTIVE OFFENSES [224.3]

In accordance with Art. 224.3, a "collective offense" occurs when several persons:

- Commit the same offense
- At the same time
- Under the same circumstances

When addressing sanctions related to collective offenses:

- Jury's decision as to one offender may be considered binding upon all offenders.
- Written decision shall include:
 - Names of all offenders concerned
 - Scope of the penalty to be assessed upon each of them

Decision will be delivered to each offender.

18. GATE JUDGES

The Jury along with the support of the Organizing Committee may opt to not use Gate Judges for Downhill, Downhill Training, Super G, Super G Training, and Giant Slalom, provided they take measures to cover the entire course with sufficient Jury members, Jury Advisors, Eyes of the Jury, and Connection Coaches **[U669.3]** Slalom requires regular assignment of Gate Judges.

*Please note **U669.3 is a non-FIS rule. FIS rules require that Gate Judges be present for all events.***

19. TEAM CAPTAINS' MEETINGS

An actual meeting, attended in person or online by Team Captains, Jury, and race officials is an inseparable part of the competition and is important for communication of Jury instructions, support of the OC, OC requests and information, as well as a critical element for risk management and liability related matters. Art. 216 and 217 apply in all cases. **[604.3]**

20. FIS PENALTY WITH LESS THAN FIVE COMPETITORS: MAXIMUM VALUE

If there are less than five competitors with FIS points among the first ten of the result list, or there are not five competitors who started with FIS points, then those competitors without FIS points will receive the maximum value as noted in Rules of the FIS Points.

If less than three competitors with FIS points are ranked within the five or at least three competitors without FIS points are classified, the competition will be considered for FIS points with a double of the maximum value (of the respective event) as minimum penalty. **[4.4.4 Rules of the FIS Points]**

21. MINIMUM PENALTIES: NON-FIS EVENTS

If event does not meet required minimum vertical drop (MVD), the greater of calculated penalty, the calculated penalty plus the addition (for events that also do not meet minimum time), or minimum penalty of 60.00, will be applied.

If an event meets required minimum vertical drop (MVD), the greater of the calculated penalty or the minimum penalty of 40.00 shall be applied.

22. DOCUMENTS AND SIGNATURES

Rules require signatures on many documents including, but not limited to the Technical Delegate Report, Timing & Data Technical Report, Jury Minutes, Team Captains' Meeting Minutes, Report by the Referee, Protests. Signatures confirm that rules and procedures were followed; original, signed documents may be required in a legal review.

If the Technical Delegate agrees to the use of electronic signatures on certain documents, s/he must verify availability of legally-acceptable document signing software, e.g., DocuSign, eSign, etc., which certify signatures with time and date, etc. *Copying and pasting a facsimile of a signature is not legally acceptable.*

23. FORCE MAJEURE

In Alpine competitions, "force majeure" describes those uncontrollable/unexpected events (such as extreme weather, extreme surface conditions) that are not the fault of any party and that make it difficult or impossible to carry out an event. *Force majeure is "uncontrollable and unexpected;" it is not "planned."*

- An unexpected weather occurrence that requires a program/course/assignment change.
- A last-minute ski area management decree.

24. JURY MEMBERS AND THEIR VOTES

Start and Finish Referees are voting members of the Jury only for Olympic Winter Games and World Ski Championships. For other events, they **must not** be listed as "Jury Members Present," as they have no vote; they do not sign Jury Minutes. *Marking "NO" indicates a "NO" vote; it does not mean an official does not have voting rights.*

25. EVENT RELATED DOCUMENTS

For events with no issues (injuries or accidents), it is recommended all event-related documents be kept on file for one (1) year. In the case of an event with serious injury/accident as defined by the Guidelines for Serious Accidents, the Technical Delegate must immediately contact Jeff Weinman, U.S. Ski & Snowboard Competition Services for instructions. The Technical Delegate must coordinate with the Ski Patrol and verify the information contained in the 4-page TD Accident Report.



TIMING CHECKLIST

- Interconnects 1. Is there wire? Does it work? Are you sure?
- Equipment 2. Is the equipment on the current list of timing equipment homologated by the FIS Timing Working Group?
(fis-ski.com/DB/information/homologated-timing-equipment.html)
- Setup 3. Are the Time-of-Day times immediately and automatically sequentially recorded on printing strips at the maximum precision of the timing device according to the requirements for homologation? (Refer to the above website to verify the required precision for each device.)
- Software 4. If timing software is used to calculate times, is it calculating net times using the precision of ToD as used in the timing device?
- Hand Timing 5. Is hand timing that records to at least 1/100th (.01) precision available?
- Quality 6. Is the timing crew aware that hand times, even if not used, should be within acceptable limits?
- Start Gate 7. Does the Start Gate meet the following requirements?
a. Does the start have 2 separate electronically isolated switch contacts for triggering the start inputs from both System A and System B?
b. One wand?
c. Installed at proper height?
d. Are identical Start Gate mechanism & Wand available for replacement?
e. Is the placement marked on the Start Posts?
f. Are the Start Posts solidly installed?
- Finish Eyes 8. Do the Finish Photocells meet the following requirements?
a. Are 2 sets available?
b. Are 4 posts with a maximum diameter of 6cm available for mounting photocells? (2 are acceptable; replacements must be available)
c. Is the vertical separation between the beams no greater than 20cm?
- Synchronization 9. Have system A and System B been synchronized as close as possible to the scheduled start time for the first run of the day?
10. Has the synchronization been performed from one single contact switch for all timing devices?
- Systems 11. If System A fails, is the timing crew aware of the requirement to use System B times to calculate a replacement time (EET) for the missing impulse?
12. Is the timing crew aware that manual timekeeping is not used to calculate a replacement time (EET) impulse unless both System A and System B fail?



Alpine Skiing

2024/2025

1st FIS points list 2024/25

Valid from 04-07-2024 to 17-07-2024

Category/Categorie/Kategorie	Race level	Minimum penalty	Maximum penalty
OWG,WC,WSC	0	0.00	0.00
COM,WQUA	0	0.00	4.00
ANC,EC,ECOM,FEC,NAC,SAC,UVS,WJC	1	15.00	999.00
EQUA	1	23.00	999.00
NC	2	20.00	999.00
AWG,CISM,CORP,EYOF,FIS,FQUA,JUN,NJC,NJR,UNI,YOG	3	23.00	999.00
CIT,CITWC	3	40.00	999.00
ENL	4	60.00	999.00

MEN						GENERAL			WOMEN						
ADDER					Z-Value	Men/Women		ADDER					Z-Value		
Disc.	Level 0	Level 1	Level 2	Level 3	Level 4		F Value	Max points	Disc.	Level 0	Level 1	Level 2	Level 3	Level 4	
DH	0	0	0	0	0	0.00	1250.00	330.00	DH	0	0	0	0	0	0.00
SL	0	0	0	0	0	0.00	730.00	165.00	SL	0	0	0	0	0	0.00
GS	0	0	0	0	0	0.00	1010.00	220.00	GS	0	0	0	0	0	0.00
SG	0	0	0	0	0	0.00	1190.00	270.00	SG	0	0	0	0	0	0.00
AC	0	0	0	0	0	0.00	1360.00	270.00	AC	0	0	0	0	0	0.00

FÉDÉRATION INTERNATIONALE DE SKI
INTERNATIONAL SKI FEDERATION
INTERNATIONALER SKI VERBAND



USA Wireless Timing Application

Application to use wireless timing at a US Ski and Snowboard sanctioned FIS or non-FIS race in the United States:

- The application for wireless timing must be completed and received not less than 2 weeks before the first day of racing for the respective event.
- Applicant, at a minimum, MUST be a USA-certified Level 2 Timing & Calculations official.
- Event for which the application is being submitted must be a non-championship event.
- All applications are subject to approval.
- Applications must be filed online at: <https://forms.gle/DsHR5Hi6pvy7w1EG6>

Current FIS Alpine Skiing Timing Booklet is available at:

<https://www.fis-ski.com/inside-fis/general-fis-documents/timing-data#Timing%20and%20Data%20Booklets>