U13 Biathlon Championships
Hosting Policy
2026-2027
Biathlon British Columbia

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Biathlon BC U13 Championships Hosting Policy

Foreword

Biathlon BC ("BiBC") is the provincial governing body for the sport of Biathlon in British Columbia. This document is BiBC's policy for hosting the Biathlon BC U13 Championships ("U13 Champs"). BiBC the Provincial Sport Organization is responsible for the conduct and standards in Biathlon in the province. All hosting organizations must ensure that BiBC sanctioned events conform to the stipulations of this Hosting Policy.

The U13 Champs is the premier event for U13 athletes in the province. Accordingly, the event must be well organized to a standard that will provide uniformity in competition from season to season and provide a seamless transition for all involved to provincial levels of competition.

The U13 Champs are held annually to provide a forum for both **new** and **experienced** U13 athletes to come together in the spirit of competition. While designated as a "Championships," the event must remain aligned with the principles of Long-term athlete development (LTAD) for the Learn to Train Stage of development, the goal is to emphasize **skill development, participation, and positive competition experiences** with a strong focus on accessibility and inclusion. All athletes should feel valued and motivated to continue in the sport. As such, a successful U13 Champs is defined by:

- Athletes having fun and feeling successful.
- A positive experience that encourages long-term participation in biathlon.
- Designed to promote skill development over results.
- Scheduled with multiple competitive opportunities.
- A fun, fair, inclusive, and low-pressure atmosphere.
- Community focused, emphasizing team participation over individual achievement.
- Delivered to a high-standard to create a positive experience for athletes and families.

Long-Term Athlete Development Principles

All U13 Championships must align with the following Long-Term Athlete Development ("LTAD") principles:

- **Athlete-centred:** Focus on athlete experience over results.
- **Skill Development:** Prioritize skill learning, effort, and improvement over results.
- **Age-appropriate:** Activities suited to the Learn to Train Stage ("L2T") of Development.
- **Fun and engaging:** Positive, active, enjoyable events.
- **High repetition:** Multiple opportunities to ski, shoot, and compete.
- **Progressive learning:** Appropriate challenge and success.
- **Inclusive:** Welcoming for all abilities.
- **Team emphasis:** Build teamwork and club connection over individual performance.
- **Safe environment:** Promoting physical and emotional safety.
- **Competition as learning:** The use of competition as a development tool.

Sanctioning & Standards

Sanctioning

No biathlon event held in BC may use the term "**U13 Championships**" or any variation of that name without prior approval from BiBC.

The U13 Championships will be held once annually and will exclusively be an electronic biathlon event. Although there are several different electronic biathlon systems available, BiBC requires the U13 Champs use the EcoAims CBR500 Biathlon system ("EcoAims").

Any BiBC member club in good standing is eligible to apply to host the U13 Championships, provided they meet the minimum venue standards to host the event.

Hosts must coordinate with BiBC on the final event formats and event schedule, safety planning and Organizing Committee ("OC") positions and volunteers. BiBC will have the final decision-making authority on event formats and course distances.

Sanctioning Fees

The hosting organization shall pay a sanction fee of $5 per registered athlete for being granted the hosting right. The sanction fee will be deducted from the competition registration fee.

Title Sponsor Recognition

As a sanctioned Championships event, hosts must recognize Biathlon BC's Title Sponsor: Odlum Brown. This includes:

- Referencing the sponsor's name in the official event title *(e.g., Odlum Brown U13 Championships)*.
- Display sponsor branding in:
    - Stadium, range, start/finish areas
    - Event materials and signage
- Sponsor acknowledgement in announcements and recognition moments.

Other Biathlon BC sponsors will be recognized. Biathlon BC will communicate those sponsors to the host. All named sponsors and financial supporters for an event must be approved by BiBC. All revenue from sponsors and supporters raised by the hosting organization are the property of the hosting organization.

Benefits to sponsors and supporters such as the naming of the event, program credits, publicity and promotions associated with Biathlon BC Events shall not conflict with any existing provincial arrangements or conflict with any of the aims and purposes of BiBC.

Invitation

The OC of the event shall prepare a draft event invitation for BiBC's review and approval. The OC shall work closely with the assigned BiBC representative on the competition details. After the invitation has been approved, the OC is to email the approved invitation to the BiBC General Manager for posting on the website a minimum of six weeks ahead of all Biathlon BC Events. Invitations must contain the following information:

- Event name, dates, and hosting organization
- Recognition of any Biathlon BC Official Sponsors
- Location of competition venue (including venue map)
- Dates, formats, competitor classes, and event schedule
- Team captains meeting location and time
- Stadium plan, course map and course profiles (if available)
- Facility information; warming huts, bathrooms, parking, wax cabins, hours of access
- Registration and entry details including fees, payment method and deadlines
- Group rates for accommodation
- Optional Banquet or social function details including location, costs and ticket arrangements
- Event contact information

Modifications of the invitation must receive BiBC approval.

Participation, Registration and Entry Fees

Any individual who is a member in good standing of BiBC, Biathlon Canada, the United States Biathlon Association, or the IBU may register for the U13 Champs. Proof of membership will be required.

To register for the U13 Champs, racers need to hold an "Athletes – Recreational" or "Athlete – Development" membership.

The event entry fee must not exceed $90 for the entire weekend of competition and include any associated trail fees or range pass fees. It is recommended to have one fee for the entire weekend of events, rather than fees à-la-carte for each event. This fee does not include registration processing fees.

Event entry fees do not include any fees that may be added for meals/concession or social events. Additional fees for these items may be added in addition to the event entry fee provided they are optional fees and are approved by BiBC.

Registration must be administered through BiBC's Zone4 account. All registration and entry fees must be made through Zone4 by the dates specified in the Invitation. No late entries will be allowed, unless approved by both BiBC and the host OC.

Organizing Committee

The OC should, as a minimum, consist of the following positions:

- Competition Lead
- Competition Secretary
- Course Lead
- Range Lead
- Timing Lead
- Stadium Lead
- Volunteer Coordinator

Hosts must recruit sufficient volunteers to safely operate the event. The number of volunteers required will depend on the experience of the hosts and the event size. The OC should be members of BiBC, and all volunteers should be provided lunch, receive an orientation, have choice in their role when possible, and receive email reminders leading up to the event. A list of all volunteers and their emails should be shared with Biathlon BC's General Manager gm@biathlonbc.ca so Biathlon BC is also able to send a thank you note.

One of the Leads should be certified at Leader Level Official or higher and other Leads should be certified at Advanced Level or higher. The people in critical data collecting roles should be certified at Entry Level or higher.

The Range Lead is a key official who must be familiar with the EcoAims biathlon system. This role is responsible for managing the equipment, ensuring it functions properly, zeroing the electronic rifles prior to the start of each event, and problem-solving equipment issues.

BiBC Representative

BiBC will appoint a representative for the U13 Champs. The representative's task is to assist the OC and to ensure that the events are conducted in accordance with BiBC policies and rules and to interpret and apply these.

The representative shall submit a written report on the event in the preferred format no later than four weeks after the event. Copies will be emailed to the hosting organization, and BiBC's General Manager and Operations Manager.

Competition Facility

As much as possible the competition facility for BiBC events should conform to the specifications set out in this section. In recognition of the developmental aspects of the U13 Champs, particularly in new communities, the OC may seek BiBC's approval for exceptions from these specifications. BiBC shall authorize the exceptions if they are safe and, in general, conform with the intent of these specifications.

Equipment

Biathlon BC recommends the CBR500 EcoAim biathlon unit for this event. A minimum of fourteen (14) units is required for this event. Biathlon BC can assist in sourcing units for the event if needed.

The OC must ensure that each of the EcoAim components (Target box, display and rifle) are fully charged at the start of each competition day. It is recommended to have access to supplemental power or spare units in case of malfunction or dead batteries.

Range

General EcoAims range requirements include:

- The boundaries of the range should be clearly defined.
- The size of the range should accommodate minimum of fourteen (14) lanes.
- The location of the range should be open and observable, so the event is visible to other community members.
- Each shooting lane should be 2.5 - 3.0 m wide and positioned on a level shooting ramp.
- Each shooting mat should have its own shooting rest.
- Each target should be set 8-10m away from each shooting rest
- Each target should be set to size 6 and Left-to-Right
- There must be a safe entrance and exit (left to right).
- There must be a clearly marked area for coaches, directly behind the range, and a designated spectator area for viewing.

Course

There must be sufficient trails adjacent to the range to conduct the required competitions. Courses should be clearly marked to prevent course deviation by racers, and intrusions by the public. Courses should be planned to minimize the risk of collision.

Stadium and Central Area

The stadium should be laid out with fencing and/or V boards to distinguish competition areas, traffic routes and spectator areas. The start/finish area should have adequate space and be near the range. The stadium should have adequate space for a simultaneous start, and/or a relay hand-over zone. The stadium configuration must provide spectator viewing and be able to control non-competitors.

Warm up Area

A minimum 400 m long trail, prepared in the same manner as the competition course, with access from the stadium and range areas shall be provided. If this is not available, the OC shall, in consultation with the TD, make every effort to provide an appropriate warm-up trail nearby.

Athlete Warming Area

The OC shall provide heated rooms, cabins or buildings of sufficient space with heat and power to all competitors, not more than 300 m from the start/finish location. Provision for waxing at this or a separate location is desirable.

Change Rooms/Toilets

The OC must provide at least one indoor or outdoor toilet per 40 people with hand sanitizing capabilities within 100 meters of the central area. Separate facilities should be provided for spectators if possible. At least one private accessible washroom must be provided. The OC should try to provide individual or gender-specific change areas for athletes.

Parking and Transportation

The organizing committee is to provide sufficient parking for spectators and competitors as close to the stadium as possible.

Transportation is the responsibility of the participants. If any special transport arrangements to and from the facility are necessary, these must be included in the invitation.

Timing

BiBC recommends the use of a Zone4 chip timing system. A manual timing system must be in place as a backup to the Zone4 system.

An operator for the data entry and results generation must be identified well in advance of the event. If a competent timing system operator is not available locally, the hosting organization shall establish a suitable training regime to address the issue.

If requested, BiBC will provide up to six Summit timers, one stadium clock and one start clock for competition timing. The hosting organization is responsible for the cost of shipping equipment to and from the venue.

The Competition Lead shall plan and train race officials well in advance to operate the equipment efficiently, including space, power, and internet connection.

Competition Bibs

Competition bibs will be provided by BiBC. If BiBC bibs are not available, a set of sequential bibs sufficient for the size of the entire field, with clear numbers with a good contrast to the background, and with side numbers is required. The preferred type is a vest pattern. Pin/tie-on numbers are not acceptable. If a relay competition is to be run, specific relay bibs are required.

Awards and Recognition

There should be no individual medals or podium for the competition. Instead, in the spirit of skill development, personal development, and participation, many participants should leave a U13 Championships weekend with a prize/award (e.g., ribbons, souvenirs, participation awards, candy, cookies, etc.). Awards should be displayed according to the principles below:

- Recognition should focus on effort, improvement, teamwork, and sportsmanship.
- Results from individual events should be posted in alphabetical order by family name rather than by official rankings.
- Results should be organized by category and gender, and display year of birth next to each competitor.
- Results from the Biathlon BC Club Challenge Cup should be posted and determined as detailed in Appendix A.
- All publications posted for public viewing must contain the logos and names of BiBC sponsors and partners.

Finalized results shall be emailed to the BiBC Operations Manager and to any media as directed by BiBC as soon as possible and no later than 19:00 on the competition day. All records must be archived for one year by the OC.

Accommodation

Sufficient accommodation for all registrants, support staff, officials and traveling visitors must be available within 50km of the venue. Restaurants and food stores must be nearby to the accommodation.

Emergency Plan

An up-to-date emergency plan for injuries to participants must be available and must include the following:

- Name of trained first aid coordinator and first aid/ski patrol personnel.
- Access to first aid personnel at the venue.
- Access to the closest physician and hospital.
- Communication and radio set details.
- Access to a snowmobile with toboggan.
- Evacuation vehicle, ambulance, helicopter, etc. as necessary.

The emergency plan must be discussed with the BiBC and known to all officials and relevant volunteers prior to the event. The emergency plan shall be posted at the venue.

Contingency Venue/Cancelation

With approval from BiBC, a contingency venue may be used if conditions arise so that the planned venue cannot be used.

One week's notice for cancellation of an event is the minimum required unless uncontrollable events of weather or circumstances dictate. If the event is cancelled with at least one week's notice, entry fees (excluding third party fees) will be refunded. If unforeseen circumstances cause cancellation closer to the event, the organizers may retain entry fees sufficient to ensure no loss against expenses already incurred.

In the event of extreme weather on race day, the jury will decide if the race is safe to proceed with or must be cancelled. Extreme weather can include cold or hot temperatures, heavy snow, rain, wind, fog, smoke, lightning/thunder or a combination of these factors.

Financial Responsibilities

All costs of staging the U13 Champs are the responsibility of the hosting organization, except for participants' travel costs to and from the event and team meals and accommodation costs.

The revenue collected on behalf of the hosting organization by BiBC will be remitted to the hosting organization as soon as practical.

The hosting organization is responsible for the costs of meals, accommodation and local transportation for the BiBC representative. The hosting organization shall discuss these arrangements with the BiBC representative. The BiBC representative shall provide all receipts to BiBC and the hosting organization for reimbursement. The costs of meals and accommodation shall not exceed the current Biathlon BC rates.

BiBC will pay the BiBC representative's travel costs to and from the event. The BiBC representative shall provide all travel receipts to BiBC for reimbursement according to BiBC's Travel Allowance Policy.

Reporting and Auditing of Event Finances

BiBC retains the right to examine and audit the finances of an event that it sanctions. The retention and availability of financial records is the responsibility of the hosting organization. These shall be retained for one calendar year after the event.

Publicity and Media

The OC must arrange for maximum exposure of the event and the sport through as many areas of media and publicity as practically possible. At a minimum, local press and other media must receive notice of the event when it is awarded, as preparations are done, and to commit reporters and photographers a week or two ahead of the event date.

Event Format Guidelines

Key Principles

- Keep race durations short (5–20 minutes for each event).
- Allow time for coaching feedback between efforts.
- Allow time for rest in between events.
- Emphasize positive race experiences over rankings.

Classes of Competitors

The Biathlon BC U13 Championships shall be for U13 athletes who compete in the U11 or U13 categories. It is the intent that both male and female participants compete together, with awards and results split by gender.

- A U11 athlete is defined as an athlete who will be 9 or 10 years old as of Dec 31 in the competition season.
- A U13 athlete is defined as an athlete who will be 11 or 12 years old as of Dec 31 in the competition season.

Competition Formats

There are seven types of competition formats authorized for the U13 Champs. Specific details on each format can be found in **Appendix A**. The final event program of the U13 Champs shall be determined in consultation with BiBC. The OC and BiBC may decide to alter distances, adjust EcoAim settings, or to combine categories in the spirit of providing a meaningful, competitive experience.

1. Biathlon BC Challenge Cup
    a. Ski Cross
    b. Precision Shooting
    c. Timed Criteria
2. Modified Individual
3. Modified Sprint
4. Modified Mass Start
5. Modified Relay

Appendix A includes the rules and modifications for each competition format.

Event Program

The Biathlon BC U13 Championships is a two-day event which offers 3 to 5 competition formats across the two-day event. The Championships should reflect both variety and repetition to ensure each athlete has multiple starts/opportunities to compete.

Recommended Schedule:

- Day 1 (Friday): Travel Day
- Day 2 (Saturday): Biathlon BC Club Challenge and Relay
    - AM: Biathlon BC Club Challenge
        - Free use/instruction on EcoAims
        - Ski Cross Challenge
        - Precision Shooting Challenge
        - Timed Criteria Challenge
    - PM: Modified Relay
    - PM: Event Social
- Day 3 (Sunday): Individual Biathlon Competition
    - AM: Choice of ONE Individual Biathlon Competition formats
        - Modified Individual
        - Modified Mass Start
        - Modified Sprint
    - PM: Travel Home

The above is a typical program. An alternative schedule is possible if approved by BiBC.

Team Captains Meeting

This is a formal meeting and must be conducted in person or online prior to the competitions.

Refer to the IBU Events and Competition Rules guide for the agenda. Other items may be added with consultation from BiBC.

Competition Jury

One competition jury will be elected for the U13 Champs. It will consist of:

- BiBC representative as the Chairperson
- The Competition Lead
- Biathlon BC General Manager (if present)
- Two or three team officials elected by the team captains only.

BiBC representative conducts the jury election. Members will not be considered prejudiced in case of conflict of interest and need not withdraw.

Social Event

It is strongly recommended, though not mandatory, to host a social event on the evening between the event days, for example, on the Saturday night of a weekend event. The social event can take various forms, including, but not limited to, a banquet, a pizza party, an ice cream social, or a pool party. The intended demographic for the social is U11/ U13 participants and the social should be planned with their needs in mind.

The social event fee should be reasonable and may be added to the Entry Fee. Additional tickets and places must be available to supporters and all team members.

Appendix A: Competition Classes and Competition Format Distances

Competition Classes and Formats Outline

Class	Competition Format	Competition Distance	Start Type	Skiing Loops	Loop Length	Shooting Sequence	EcoAim Setting
U13 Electronic (combined genders)	Modified Individual	2.8km	Single, 15 sec	4	700m	PPP	6
	Modified Mass Start	2.8km	Simultaneous	4	700m	PPP	6
	Modified Sprint	2.1km	Single, 15 sec	3	700m	PP	6
	Modified Relay	1.5km	Simultaneous	3	500m	PP	6
	Ski Cross	2-3km	Single	2	1-1.5km	N/A	N/A
	Timed Criteria	N/A	Simultaneous	N/A	300m	PPPP…	6
	Precision Shooting	N/A	Wave	N/A	N/A	PP	0
Class	**Competition Format**	**Competition Distance**	**Start Type**	**Skiing Loops**	**Loop Length**	**Shooting Sequence**	**EcoAim Setting**
U11 Electronic (combined genders)	Modified Individual	2km	Single, 15 sec	4	500m	PPP	3
	Modified Mass Start	2km	Simultaneous	4	500m	PPP	3
	Modified Sprint	1.5km	Single, 15 sec	3	500m	PP	3
	Modified Relay	1.5km	Simultaneous	3	500m	PP	3
	Ski Cross	1-1.5km	Single	1	1-1.5km	N/A	N/A
	Timed Criteria	N/A	Simultaneous	N/A	300m	PPPP…	3
	Precision Shooting	N/A	Wave	N/A	N/A	PP	0

Appendix B: Format Modifications and Rules

Electronic Biathlon Rules

- All electronic classes are prone only.
- All electronic classes may use a rifle rest. Rifles and rifle rests will remain in each lane for the entirety of the competition and will be shared between all competitors of these classes.
- No additional accessories such as harness, hand stops, slings or blinders are permitted. Customization of the rifles (butt plate, cheek plate) are not permitted.
- The electronic targets should be placed 10m from the firing line and should be as close as possible to 43cm above the level of the shooting ramp.
- Target shooting direction will be set Left to Right.
- At a minimum, The OC must allocate 20 minutes prior to the competition for the coaches and athletes to be able to test the rifles.
- During competition, electronic rifles shall be placed on rifle rests on the shooting mats and shall be shared by all athletes competing in all classes.
- During competition, athletes may receive help from their coaches at any time.

General EcoAim Settings

Be sure to adjust the general settings on all EcoAim Units so they are the same. Specific "Shooting Settings" are provided below for each competition format.

Under the "**Display Settings**"

- Set Zoom to "2"
- Set the Qaim Mode to "Line + Cross"
- Set Shot Sound to "Rifle"
- Set Speech to "Off"

Under the "**General Settings**"

- Set Language to "English"
- Set Volume level as required
- Set Contrast as required. This adjusts the contrast on the display.
- Set Backlight to "Auto". This provides light to the display.
- Set the Target Intensity as required. This adjusts the brightness on the target.
    - Lower levels are for low light conditions
    - Higher levels are for brighter conditions.

Wax protocol

The U13 Champs will adhere to BiBC's no fluorinated wax policy. It is recommended that coaches and parents prioritize athlete support over equipment preparation.

Modified Individual

The Modified Individual is an individual start race where racers must ski four laps and shoot three times. It differs from a standard IBU individual race in that there is no time penalties are added to the racer's final time for any missed shots, rather the racers must remain at the range and continue shooting until they score 5 hits. The racers who score 5 hits faster will leave the shooting range the fastest, while those who miss are penalized by having to stay at the range until they hit all the targets.

EcoAim Settings for Modified Individual Events

Under "**Shooting Settings**":

- Set the Shooting Mode to "Penalty Time"
- Set the Shooting Time to "No Limit"
- Set the Hit Limit to "3.0" for U11 classes **or** "6.0" for U13 classes
- Set Rounding to "On"
- Set the Shot Count to "99"
- Set the Series Count to "1"
- Set the Sound Signals to "On"
- Set the Target to "Rifle"
- Set the Direction to "L → R"
- Set Starting to "Auto"
- Set Penalty time to "2 s"

Using these settings on the EcoAims will allow each racer up to 99 tries to hit all five targets. Any shots that score as hits will turn the target green. Any shots that are misses will make the targets flash red for 2 seconds, during which the athlete must wait until they can shoot again.

Penalty times are not used in this event as penalties can add up quickly for missed shots, making results harder to understand for young or new participants. It also reduces the burden on the OC to accurately record all shooting scores to produce results.

Modified Sprint

The Modified Sprint is an individual start race where racers must ski three laps and shoot twice. It differs from a standard IBU sprint race in that there is no penalty laps required for missed shots, rather the racers must keep shooting until they score 5 hits. The racers who score 5 hits faster will leave the shooting range the fastest, while those who miss are penalized by having to stay at the range until they hit all the targets.

EcoAim Settings for Modified Sprint Events

Under "**Shooting Settings**":

- Set the Shooting Mode to "Penalty Time"
- Set the Shooting Time to "No Limit"
- Set the Hit Limit to "3.0" for U11 classes **or** "6.0" for U13 classes
- Set Rounding to "On"
- Set the Shot Count to "99"
- Set the Series Count to "1"
- Set the Sound Signals to "On"
- Set the Target to "Rifle"
- Set the Direction to "L → R"
- Set Starting to "Auto"
- Set Penalty time to "1 s"

Using these settings on the EcoAims will allow each racer up to 99 tries to hit all five targets. Any shots that score as hits will turn the target green. Any shots that are misses will make the targets flash red for 1 second, during which the athlete must wait until they can shoot again.

Penalty laps are not used in this event as penalty laps can add up quickly for missed shots, punishing racers by making them ski further than others. For context, missing 10 targets and using a 75m penalty loop would add an additional 750m of course distance. That equates to extending the race distance by 50% for a U11 racer who competes over a 1.5km sprint.

Additionally, it removes the possibility of missing the completion of a penalty loop and receiving a time penalty for the infraction. It also reduces the burden on the OC to accurately record all penalty laps completed to produce results.

Modified Mass or Wave Start

The Modified Mass Start is a simultaneous start race where racers must ski four laps and shoot three times. It differs from a standard IBU mass start race in that there is no penalty laps required for missed shots, rather the racers must keep shooting until they score 5 hits. The racers who score 5 hits faster will leave the shooting range the fastest, while those who miss are penalized by having to stay at the range until they hit all the targets. The OC should factor in range capacity if choosing a mass start race, as there may be a need to record alibis for racers who must wait for EcoAims to free up during the race. The time spent waiting for an EcoAim to shoot should be subtracted from their final time. A Wave Start may be chosen to spread out athletes into smaller groups and reduce time spent waiting for rifles.

EcoAim Shooting Settings for Modified Mass or Wave Start Events

Under "**Shooting Settings**":

- Set the Shooting Mode to "Penalty Time"
- Set the Shooting Time to "No Limit"
- Set the Hit Limit to "3.0" for U11 classes **or** "6.0" for U13 classes
- Set Rounding to "On"
- Set the Shot Count to "99"
- Set the Series Count to "1"
- Set the Sound Signals to "On"
- Set the Target to "Rifle"
- Set the Direction to "L → R"
- Set Starting to "Auto"
- Set Penalty time to "2 s"

Using these settings on the EcoAims will allow each racer up to 99 tries to hit all five targets. Any shots that score as hits will turn the target green. Any shots that are misses will make the targets flash red for 2 seconds, during which the athlete must wait until they can shoot again.

Penalty laps are not used in this event as penalty laps can add up quickly for missed shots, punishing racers by making them ski further than others.

Additionally, it removes the possibility of missing the completion of a penalty loop and receiving a time penalty for the infraction. It also reduces the burden on the OC to accurately record all penalty laps completed to produce results.

Modified Relay

The Modified Relay is a simultaneous start race where teams of racers must ski three laps and shoot twice, each. It differs from a standard IBU relay race in that there is no penalty laps required for missed shots, rather the racers must keep shooting until they score 5 hits. The racers who score 5 hits faster will leave the shooting range the fastest, while those who miss are penalized by having to stay at the range until they hit all the targets. Teams can be made up of 2 to 3 racers, depending on the size of the field. It is recommended to form blended teams from across different clubs to encourage socializing between participants. The OC should factor in range capacity during relay races, as there may be a need to record alibis for racers who must wait for EcoAims to free up during the race. The time spent waiting for an EcoAim to shoot should be subtracted from their final time.

EcoAim Shooting Settings for Modified Relay Events

Under "**Shooting Settings**":

- Set the Shooting Mode to "Penalty Time"
- Set the Shooting Time to "No Limit"
- Set the Hit Limit to "3.0" for U11 classes **or** "6.0" for U13 classes
- Set Rounding to "On"
- Set the Shot Count to "99"
- Set the Series Count to "1"
- Set the Sound Signals to "On"
- Set the Target to "Rifle"
- Set the Direction to "L → R"
- Set Starting to "Auto"
- Set Penalty time to "1 s"

Using these settings on the EcoAims will allow each racer up to 99 tries to hit all five targets. Any shots that score as hits will turn the target green. Any shots that are misses will make the targets flash red for 1 second, during which the athlete must wait until they can shoot again.

Penalty laps are not used in this event as penalty laps can add up quickly for missed shots, punishing racers by making them ski further than others. For context, missing 10 targets and using a 75m penalty loop would add an additional 750m of course distance. That equates to extending the race distance by 50% for a U11 racer racing a 1.5km sprint.

Additionally, it removes the possibility of missing the completion of a penalty loop and receiving a time penalty for the infraction. It also reduces the burden on the OC to accurately record all penalty laps completed to produce results.

Biathlon BC Challenge Cup

The Biathlon BC Challenge Cup is comprised of three separate challenges: the Ski Cross Challenge, the Timed Criteria Challenge and the Precision Shooting Challenge. During the challenge, every racer will earn points which will be contributed towards the sum of all the points from all the participants of a BiBC member club.

Scoring System

- Ski Cross
    - Points are awarded based on the finish order of the ski cross. The maximum number of points for this event is dependent on the number of entries. First place receives the maximum number of points, while second place receives one point less than first, and third place two points less than first, etc.
    - E.g. If there are 17 racers in the Ski Cross event, the first-place finisher will receive 17 points to contribute to their club's total score, whereas second place will receive 16 points, third place will receive 15 points, continuing to last place that receives 1 point.
- Timed Criteria
    - Each racer will receive 10 points for each lap they successfully complete in the timed criteria to contribute to their club's total score. A completed lap consists of skiing one full loop of the course and successfully hitting five targets in the range.
    - E.g. A racer who skis 6 loops but is unable to finish hitting five targets in the allotted time is recorded as only completing 5 laps and will contribute 50 points to their club's total score.
- Precision Shooting
    - Each racer will receive a precision score out of 100 points. This score becomes the points they contribute to their club.
    - E.g. A racer who scores 78 points on the 10-shot precision score will contribute 78 points to their club's total score.

At the end of the challenge, the club with the greatest number of points wins the Biathlon BC Challenge Cup.

Ski Cross

A Ski Cross is an individual start race where racers must ski through a course that includes a variety of obstacles and changing terrain as fast as they can. This event does not include any shooting. Instead, it challenges the fitness, agility, balance and confidence of the racer. The course should include different sections with obstacles such as:

- Uphill sections
- Downhill sections
- Cornering sections
- Double poling sections
- Jumping sections
- Agility sections
- Legs only sections
- Sprinting sections

Timed Criteria

A Timed Criteria is a wave or simultaneous start event where racers must ski around a short course in a 10-15 min time frame. On each lap, racers will stop at the shooting range and must hit five targets before heading out for the next lap. The goal is to complete the greatest number of laps possible during the time of the event. Missed shots result in more time spent shooting at the shooting range and reduces the total number of laps they can complete. Racers must also race to a free EcoAims rifle on a first-come, first-served basis. Alibis should not be offered to encourage racers to get to the shooting range before someone else does.

EcoAim Shooting Settings for the Timed criteria

Under "**Shooting Settings**":

- Set the Shooting Mode to "Penalty Time"
- Set the Shooting Time to "No Limit"
- Set the Hit Limit to "3.0" for U11 classes **or** "6.0" for U13 classes
- Set Rounding to "On"
- Set the Shot Count to "99"
- Set the Series Count to "1"
- Set the Sound Signals to "On"
- Set the Target to "Rifle"
- Set the Direction to "L → R"
- Set Starting to "Auto"
- Set Penalty time to "1 s"

Using these settings on the EcoAims will allow each racer up to 99 tries to hit all five targets. Any shots that score as hits will turn the target green. Any shots that are misses will make the targets flash red for 1 second, during which the athlete must wait until they can shoot again. The OC will need to focus on recording how many laps each racer skis rather than how many targets are hit.

Precision Shooting Contest

The Precision shooting contest is a shooting only event. Participants are given 10 practice shots on the EcoAims, followed by 10 scoring shots. After the 10 practice shots, racers may adjust the sights (i.e. zero the rifle) if required. Once the series for the scoring shots begins, no sight adjustments are allowed. The number of points awarded per shot is based on how close to the center of the target the shot is placed. A perfect shot is worth 10+ points. After shooting a series of five shots, the EcoAims computer will automatically calculate a score out of 50 for the series. The OC should record the total score out of 100 points for the two series of five shots.

EcoAim Shooting Settings for the Precision Shooting Contest

Under "**Shooting Settings**":

- Set the Shooting Mode to "Biathlon Prone"
- Set the Shooting Time to "No Limit"
- Set the Hit Limit to "1.0" for all classes
- Set Rounding to "Off"
- Set the Shot Count to "5"
- Set the Series Count to "1"
- Set the Sound Signals to "On"
- Set the Target to "Rifle"
- Set the Direction to "L → R"
- Set Starting to "Auto"
- Set Penalty time to "N/A"