

**2020**



**TECHNICAL PACKAGE  
BIATHLON - SNOWSHOE**

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**2020 ARCTIC WINTER GAMES**

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# **BIATHLON - SNOWSHOE**

1. **RULES:** The International Biathlon Union (IBU) Event and Competition Rules in force during the Arctic Winter Games will apply fully for all aspects of the event, except as modified by the Arctic Winter Games International Committee. Where no specific rule exists for a situation, the principle or the intent of the IBU Rules will be used to determine the resolution of the situation.

Prior to the start of competition the head official (Technical Delegate) will review the Arctic Winter Games rules modifications will all coaches. Specific items to be reviewed in 2020 include (others may be added by the Technical Delegate or requests for clarifications may be requested by coaching staff):

- a. Cold Weather Policy
- b. Zone of silence rules
- c. Gun handling procedures

2. **CATEGORIES:**

- a) Junior Male                      Born in 2002, 2003 or 2004
- b) Junior Female                    Born in 2002, 2003 or 2004
- c) Juvenile Male                    Born in 2005 or later
- d) Juvenile Female                 Born in 2005 or later

3. **EVENTS AND SCHEDULE**

**Individual Competitions for all Categories**

<b>Competition Class</b>	<b>Individual</b>	<b>Sprint</b>	<b>Mass Start</b>
Junior Male	5.0 km PSPS	3.0 km PS	4.0 km PPSS
Junior Female	5.0 Km PSPS	3.0 km PS	4.0 km PPSS
Juvenile Male	3.0 km PPP	2.0 km PP	2.5 km PPP
Juvenile Female	3.0 km PPP	2.0 km PP	2.5 km PPP

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**Schedule** – The schedule for Snowshoe Biathlon shall be:

Monday:	Individual Events
Tuesday:	Sprint Events
Wednesday:	Rest Day
Thursday:	Mass Start Events
Friday:	Relays

**Relay Competitions**

- a. Mixed Junior Male/Female Competition – 3 x 2 km
- b. Mixed Juvenile Male/Female Competition – 3 x 2 km

Official Teams must be made up of three competitors from the same contingent, two of one gender and one of the other. Medals are awarded by team i.e. to the entire Junior or Juvenile team from the contingent will receive the medal (4 medals). If the Host society allows unofficial teams can be formed by joining contingents, these teams will not be entitled to a medal. Juvenile athletes may move up to compete in the Junior relay but if they do so they cannot compete in the Juvenile relay.

**4. TEAM COMPOSITION:**

Each Games Unit may enter a team comprising a maximum of eight (8) competitors and two (2) coaches as follows.

Junior Male	-	2
Junior Female	-	2
Juvenile Male	-	2
Juvenile Female	-	2
Coaches	-	2

One coach must be female and one male. If a coach from one gender is not available a chaperon must be substituted.

Note:

1. Coaches from a Contingent's Ski Biathlon team are allowed to participate as coaches for their contingent's athletes at the Snowshoe Biathlon competition.

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**5. MEDALS**

Individually by event and individually by team for relay

Gold	-	24
Silver	-	24
Bronze	-	24

**6. ARCTIC WINTER GAMES RULE MODIFICATIONS**

If a rule is not specified in this package then the IBU rules shall apply. With respect to the rules related to snowshoe equipment, see the Snowshoe Technical Package.

1. Shooting Positions, Carrying and Range Procedures

**Shooting Positions**

- a. Juvenile competitors shoot in the prone position only.
- b. Junior competitors shoot in the prone or standing position according to the sequences for each event.

**Rifle Carrying**

- a. Juvenile competitors shall have their rifles placed on and removed from the firing line (mats) by their coaches or range officials.
- b. Junior competitors will carry their rifles only on the range and securely positioned on their back with the proper biathlon harness.

**7. JUVENILE CATEGORY RANGE PROCEDURES (IBU Rule 8.5.2 Modified)**

- a. The rifles for Juvenile Boys and Juvenile Girls shall be pre-positioned on the firing point mats by their coaches, with the barrel pointing toward the targets and in such a way that the rifle can be picked up safely by the Competitor. The Competitor shall carry out the entire loading and firing procedure without assistance. After firing the last shot of each bout the Competitor must open the action and place the rifle on the firing point mat, with the barrel pointing toward the targets, and then exit the firing point and the range in the normal manner.

**Penalty**

If the rifle is left with the action closed each violation shall result in a 2-minute penalty imposed by the Competition Jury. The Competition Jury shall handle

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other issues arising from the procedures according to the principles set out in the IBU Rules and to common sense

**Coaches Responsibility**

The coaches are totally responsible for the pre-positioning of the rifles, moving them to another firing point or away from the firing points, and for the provision of ammunition to their Competitors. No time adjustment will be awarded for a delay caused by any action that is the coaches' mistake. In addition, the coaches are responsible for ensuring that a rifle placed on a mat does not impede or otherwise disrupt or interfere with other Competitors.

**Safety Check**

The Competitors' Coach is responsible for performing the safety check on the rifle before it is moved to another location – by confirming that there is no inserted magazine, that the action has been opened, and that there is no round in the chamber.

**8. JUNIOR CATEGORY RANGE PROCEDURES (IBU Rule 8.5 Modified)**

1. Prior to the start of the competition, all Junior Boys' and Junior Girls' rifles, with the bolts open unless otherwise authorized, will be placed in racks located on the left or right side of the trail, as decided by the TD based on circumstances, just inside of the 10 m line at the entrance to the range. The competitor's bib number shall be placed on his/her rifle and on the entrance rack. Slots for rifles on the exit and entrance rifle racks should be spaced at least 38 centimeters (15 inches) apart to accommodate rapid removal.
  
2. Competitors must come to a complete stop on the mats located in front of these racks before they start to pick up their rifles following the rules outlined in IBU 8.5.4. Each competitor will then pick up their rifle and place the rifle in the correct carrying position on their back.
  
3. Competitors will then ski to their firing points and carry out normal range procedures, as defined in the IBU rules (IBU 8.5), for removal and replacement of the rifle, for shooting, and for leaving the firing point.
  
4. After completing a bout of shooting, each Competitor will proceed to the rifle racks located on the left or right side of the trail just inside of the 10 m line at the exit of the range and must come to a complete stop on the mats located in front of these racks. They will then remove the rifle from their back and place their rifle on the racks, again following the rules outlined in IBU 8.5.4. The action/bolt must

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be in the open position when the rifle is placed on the rack. Notwithstanding IBU Rule 8.5.2, once on the mat in front of a range exit rack, provided that the barrel is pointed up, a competitor may open the bolt in order to prepare the rifle for placement on the rack. The competitor must be in full control of the rifle while opening the bolt (Bolt must not be opened on the rack). Once the rifle has been safely and securely placed on the rack the competitor may continue with the competition.

5. In the case of inclement weather, the TD, or in his/her absence the Chief of Competition or the Chief of Range, may authorize that a designated official close the bolt of the rifles that have been placed in the exit rack to prevent the build-up of snow or ice, but only after inspecting the rifle to verify that the bolt was open, no rounds or empty casings were in the chamber, and that no rounds are present in any magazine inserted into the action of the rifle. This will permit rifles to be carried and to be left in the rifle rack with closed bolts to prevent the ingress of snow and ice when conditions are adverse.

6. Competitors must not be interfered with when retrieving rifles or when placing rifles into the racks.

7. At the end of the competition each Competitor must collect his/her rifle, prove it to be safe, and proceed to the designated Material Inspection location so that any required inspection can be completed. Completion of this obligation and any ensuing inspection marks the end of the competition for the non-carrying Competitor.

**Penalties**

Any safety violation during the above-specified procedures shall result in a 2-minute penalty imposed by the Competition Jury.

The Competition Jury shall handle other issues arising from the procedures according to the principles set out in the IBU Rules and to common sense.

**9. PENALTY LOOP**

1. Penalty loops apply to the sprint, mass start and relay competitions only.
2. The penalty loop distance for all events shall be 100 meters.
3. One penalty loop shall be skied for each target missed.
4. The required number of penalty loops shall be skied immediately after each round of shooting.

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5. A two-minute penalty shall be added to a competitor's time for each penalty loop not skied.
6. Competitors are responsible for ensuring that they complete the correct number of penalty loops.
7. Individual Event Penalties - The time penalty for individual events will be 40 seconds for each target missed.

## **10. RIFLES AND AMMUNITION**

IBU rules shall be followed with the following clarifications:

- a. Only .22 calibre rifles are allowed.
- b. Magnification, telescopic or corrective sights are not allowed.
- c. Semi automatic or automatic actions are not allowed.
- d. The maximum capacity of ammunition magazines shall be five (5) rounds.
- e. The maximum number of rounds allowed in a rifle at any time is five (5).
- f. Lever or bolt-action rifles are allowed.
- g. High velocity or similar ammunition is not allowed.
- h. The maximum muzzle velocity of ammunition is 380 meters per second

## **11. TARGETS**

IBU rules shall be followed with the following clarifications:

- a. The five (5) bull metal target is the preferred target for competition.
- b. The distance shot is 50 meters.
- c. The size of the aligning sight picture is 115 millimetres.
- d. The scoring size of paper and metal targets is:
  - i. Prone – 45 millimetres
  - ii. Standing – 115 millimetres

## **12. EQUIPMENT CHECK AND MARKING**

Competitors must report to the equipment checkpoint at the designated time announced by the competition committee prior to the start of each race for the purpose of checking snowshoes and rifles for compliance with the rules.

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The snowshoes and rifles shall be checked for compliance with the rules and marked as such under the supervision of the chief of competition. A spare pair of snowshoes and a spare rifle can also be checked and marked using the same procedures if requested by a competitor or his/her coach. Spare equipment may only be used if the original equipment malfunctions during the course of an event.

All snowshoes and rifles must also be checked after each race as per IBU rules.

Replacement: Competitors may replace a broken snowshoe during the course of a race. They must, however, finish each race with at least one (1) of the original snowshoes worn at the start of the race. Both snowshoes must be properly bound to the feet at the finish of the race. Any replacement snowshoes, which were put on during the course of the race, will be measured immediately after the race and the race committee shall ensure compliance with all rules respecting snowshoes.

Competitors may use their spare rifle if the original rifle malfunctions during a race.

In both cases above, the competitor's coach may provide the replacement equipment to the athlete during the course of the race provided they do not interfere with the progress of any other athlete.

### **13. COLD WEATHER POLICY**

The IBU policy Cold Weather Policy shall apply to this competition (see below). The cut-off temperatures and related requirements will be reviewed with coaches and officials prior to the start of competition.

#### **6.6 WEATHER CONDITIONS**

##### **6.6.1 Temperature**

Biathlon competitions must not be started if the air temperature is colder than minus 20 degrees Celsius measured at the coldest part of the site (range or course), 1.5 m above ground.

##### **6.6.2 Wind Chill**

If it is colder than minus 15°C, wind chill and humidity must be considered before starting and during the competition. In the case of a high wind chill factor, the competition jury will decide whether to start or continue the competition (see IBU rules for additional information)



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## **14. SNOWSHOE EQUIPMENT REGULATIONS**

Snowshoe Equipment Regulations are extracted from the Snowshoe Technical Package. In the case of any discrepancy between the two documents, the Snowshoe Technical Package shall prevail.

a. Equipment – Snowshoes

Dimensions

The snowshoe shall not be smaller than 220 by 813 millimetres (8 ¾” by 32”). The race committee shall construct a measuring box with inside dimensions of 222 millimetres width, 813 millimetres length and 222 millimetres height. Any shoe that falls through this box in either the vertical or horizontal position shall be deemed illegal and its use will be forbidden. Snowshoes shall be measured and marked by a designated sport official before the start of the first day’s events. Officials will check snowshoes for official markings during the weigh in procedure established in the section below (Weight).

Materials

Snowshoes shall be made of a wooden frame. The webbing shall be of leather or gut. Snowshoes shall not have any device(s) affixed to them, the purpose of which is the improvement of traction.

Weight

A pair of snowshoes complete with bindings shall weigh no less than 1.1 kilograms (2.5 pounds). Snowshoes shall be weighed prior to and after each competition. The weigh scale shall be of a mechanical balance type that is unaffected by cold temperatures.

Replacement Procedures

Athletes must finish the race with at least one (1) of the original snowshoes worn at the start of the race, and both snowshoes must be properly bound to the feet at the finish of the race. Any replacement snowshoes, which were put on during the course of the race, will be measured immediately after the race and the race committee shall ensure compliance with all rules respecting snowshoes.

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Illegal Snowshoes

Any athletes completing the race with an illegal snowshoe(s) shall be disqualified from the race; any medals or points awarded shall be forfeited. It is the competitor's responsibility to ensure his/her snowshoes are legal as defined by these rules.

Marking

The Race Committee shall establish a procedure for "marking" snowshoes

b. Equipment – Bindings

Bindings must be made of soft leather or hide or lampwik. Metal buckles are allowed but may only be used to fasten one part of the binding to another part of the binding and not the binding to the snowshoe. Not allowed are:

- 3 pin cross-country ski bindings or other metal bindings that prevent the snowshoe from swinging sideways.
- Velcro or similar materials
- Nylon straps
- Buckles except as described above

Bindings may be affixed to the mukluks, moccasins or kamiks by using one toe loop that is sewn to the mukluks, moccasins or kamiks within 76 millimetres (3 inches) of the centre front part of the mukluks, moccasins or kamiks. The binding cannot be affixed to the mukluks, moccasins or kamiks in any other way. The loops must be of a natural material such as hide or leather.

c. Equipment – Footwear

All athletes must wear mukluks, moccasins or kamiks when racing. Footwear must be made of soft leather below the ankle including the sole. No commercial shoes, hard-soled shoes or rigid orthotics are to be worn inside the mukluks, moccasins or kamiks. Acceptable liners are felt, wool or foam. Rubber liners are not allowed. No cleats or track shoes or any kind, or part thereof, are allowed. Velcro or similar materials are not allowed. Duct tape or similar materials or cardboard or similar manufactured materials are not allowed.