

INTERNATIONAL BIATHLON UNION

**EVENT &
COMPETITION RULES**

AUTHORIZED BY THE
IBU CONGRESS, JUNE 1998

FOREWORD

The Biathlon event and competition rules contained in this book have been formulated, authorized and published by the International Biathlon Union (IBU), the world governing body for the sport of Biathlon. These rules must be used for all IBU sanctioned international Biathlon events and competitions and should be used for all Biathlon competitions. The purposes of these rules are:

- * to provide the necessary information about Biathlon events and competitions for everyone involved with the sport;
- * to ensure fair, equal, undiscriminating and orderly competitions for all competitors;
- * to ensure the safety of all competitors, spectators, officials and team staffs;
- * to care for the natural environment;
- * to protect the nature and character of Biathlon from frivolous and ill-considered changes;
- * to prevent unacceptable behaviour such as doping and gross commercialism in the sport;
- * to protect the organizers of Biathlon competitions from unreasonable demands; and,
- * to increase the attractiveness and popularity of Biathlon and to enhance the development of the sport.

Suggestions for improvements to these rules are encouraged and may be submitted to the Secretary-General of IBU.

Copies of this book can be obtained from the IBU office.

INTERNATIONAL BIATHLON UNION
AIRPORTCENTER
POSTFACH 1
A-5073 WALS-HIMMELREICH
AUSTRIA

Telephone: 43-662-85 50 50
Telefax: 43-662-85 50 508
E-Mail: biathlon@ibu.at
Homepage: <http://www.ibu.at>

LIST OF CONTENTS

Chapter/Section	Page
1. GENERAL REGULATIONS	
1.1. Scope of These Rules	
1.2. Classes of Competitors	
1.3. Types of Competitions	
1.4. Eligibility Rules for Competitors and Teams	
1.5. Registration and Entry	
1.6. Draw and Assignment of Start Numbers	
1.7. Team Captains Meetings	
1.8. Prohibitions for Non-Competing Persons	
2. ORGANIZATIONS AND APPOINTMENTS	
2.1. General Organizations and Appointments	
2.2. The Organizing Committee	
2.3. Competition Jury	
2.4. Technical Delegates	
2.5. International Referees	
3. COMPETITION FACILITIES AND ARRANGEMENTS	
3.1. General	
3.2. Start Areas	
3.3. Course and Associated Parts	
3.4. Shooting Range	
3.5. Finish Area	
3.6. Team Waxing and Warming Cabins	
4. COMPETITION EQUIPMENT AND CLOTHING	
4.1. General Rules	
4.2. Inspections of Equipment and Clothing	
5. TRAINING AND ZEROING	
5.1. General	
5.2. Official Training	
5.3. Zeroing of Rifles	
5.4. Warm-up on the Course	
5.5. Ski Testing	
6. START REGULATIONS	
6.1. Start Types and Intervals	
6.2. Starting Positions and Starts	
6.3. Start Signals	
6.4. Time of Start, Early Start, Late Start and False Start	
6.5. Start Numbers	
6.6. Weather Conditions	

- 7. SKIING REGULATIONS
 - 7.1. General
 - 7.2. Obstruction
 - 7.3. Exchanging Equipment, Repairs, Assistance

- 8. SHOOTING REGULATIONS
 - 8.1. General
 - 8.2. Specific Rules for Types of Competitions
 - 8.3. Shooting Positions
 - 8.4. Shooting Aids
 - 8.5. Safety Regulations
 - 8.6. Misfires, Lost Rounds and Damaged Rifles
 - 8.7. Target Errors and Malfunctions

- 9. THE FINISH, COMPETITION TIME AND RESULTS
 - 9.1. The Finish
 - 9.2. The Competition Time
 - 9.3. Timing Systems
 - 9.4. The Competition Results

- 10. PROTESTS
 - 10.1. General
 - 10.2. Protest Types and Conditions

- 11. PENALTIES

- 12. WORLD CHAMPIONSHIPS - EVENT RULES
 - 12.1. General Regulations
 - 12.2. Bids to Host and Appointment of Organizers
 - 12.3. Event Schedule and Program
 - 12.4. Progress Reports
 - 12.5. Information Bulletins and Invitations
 - 12.6. Participation
 - 12.7. Awards
 - 12.8. Leader Bibs

- 13. THE OLYMPIC WINTER GAMES - EVENT RULES
 - 13.1. Rules
 - 13.2. Schedule and Program

14. CONTINENTAL CHAMPIONSHIPS
AND BIATHLON CONTINENTAL
CUP - EVENTS RULES

14.1. Continental Championships

14.2. Biathlon Continental Cups

15. BIATHLON WORLD CUP -
EVENT RULES

15.1. General Regulations

15.2. BWC Annual Scheduling

15.3. Bids to Host and Appointment
of Organizers

14.4. BWC Program

15.5. Invitations

15.6. Participation

15.7. World Cup Leader Bibs

15.8. World Cup Scoring System

15.9. Awards

LIST OF TABLES

Table 1 - Course Specifications by Competition

Table 2 - Shooting Specifications by Competition

ANNEXES

A MATERIAL CATALOGUE

B. DUTIES OF THE COMPETITION JURY, TECHNICAL DELEGATES AND INTERNATIONAL REFEREES

C. TRAINING AND LICENSING OF TECHNICAL DELEGATES AND INTERNATIONAL REFEREES

D. RULES FOR CONTINENTAL CHAMPIONSHIPS

E. RULES FOR CONTINENTAL CUP EVENTS

F. RULES FOR SUMMER BIATHLON

G. RULES FOR YOUTH AND CHILDREN

1. GENERAL REGULATIONS

Note: In these Rules, competitor and Biathlete are generic terms and refer to male and/or female as appropriate. When used in a general context, the words he, him and his shall be taken to mean also she, her and hers respectively.

1.1. APPLICATION

These Rules must be applied fully at WCH, JWCH, BWC events. At CCH and BCC events these rules must be applied in principle and as applicable. In other international events these rules shall be applied unless changes have been notified in separate rules or in the invitation. At the OWG these rules must be used except when otherwise stipulated by the IOC.

1.2. CLASSES OF COMPETITORS

The following classes are authorized for IBU competitions:

1.2.1. Men and Women

On 1 November in the year of their 20th birthday, male and female competitors shall be called Men and Women respectively and according to gender shall start only in Men's and Women's competitions.

1.2.2. Junior Men and Junior Women

Competitors who have not yet reached Men's or Women's age as defined above are Junior Men or Junior Women respectively. Separate competitions shall be organized for them. However, Junior Men are permitted to take part in Men's competitions and Junior Women are permitted to take part in Women's competitions.

1.3. TYPES OF COMPETITIONS

The following types of competitions are authorized for IBU events:

1.3.1. Men

- a. 20 km Individual
- b. 10 km Sprint
- c. 12.5 km Pursuit
- d. 4 x 7.5 km Relay
- e. 10 km Team (4 members)
- f. 15 km Mass Start

1.3.2. Women

- a. 15 km Individual
- b. 7.5 km Sprint
- c. 10 km Pursuit
- d. 4 x 7.5 km Relay
- e. 7.5 km Team (4 members)
- f. 12.5 km Mass Start

1.3.3. Junior Men

- a. 15 km Individual
- b. 10 km Sprint
- c. 12.5 km Pursuit
- d. 4 x 7.5 km Relay
- e. 10 km Team (4 members)
- f. 12.5 km Mass Start

1.3.4. Junior Women

- a. 12.5 km Individual
- b. 7.5 km Sprint
- c. 10 km Pursuit
- d. 3 x 7.5 km Relay
- e. 7.5 km Team (4 members)
- f. 10 km Mass Start

1.3.5. Modifications and Other Types of Competitions

The IBU holds the right to modify existing competitions and to introduce new types of competitions into IBU events.

1.3.6. Competition Programs

The schedule, sequence and types of competitions for WCH, JWCH and BWC events is set by the IBU EB.

1.3.7. Annual Schedule of Events

IBU events will be held annually as stated in the event rules or as directed by IBU. The yearly schedules will be published in the IBU International Biathlon Calendar. NFs are requested to provide their national schedule of major events to the IBU Secretary-General for publication in the IBU International Biathlon Calendar not later than 30 June of each year.

1.4. ELIGIBILITY RULES FOR COMPETITORS AND TEAMS

1.4.1. General

Only those competitors who comply with the following IBU regulations are eligible to take part in Biathlon events and competitions organized by an IBU member federation.

In order to be eligible to participate in an IBU event, a Biathlete and team staff must sign the IBU Declaration for Obligations and Court of Arbitration Agreements which signifies agreement to abide with all IBU rules and policies. The Agreements must be signed at the first IBU competition in which a Biathlete and staff member takes part. Each signed Agreement will remain in effect until terminated by either party.

1.4.2. A competitor may start only for the nation for which he has a valid passport, and may compete only for one nation in any one competition season. In case of double citizenship, the principle of genuine link will be applied.

1.4.3. A competitor must comply with Rule 45 and the By-Law to Rule 45 of the IOC Charter.

1.4.4. Competitor's Responsibility

A competitor may participate in an IBU event or competition only with equipment, clothing and advertising that are in accordance with the IBU Material Catalogue. It is the competitor's responsibility to ensure that he undergoes the start and finish equipment and clothing controls.

1.4.5. Competitors may not display their skis or rifle for advertising in the 10 m prohibited zone after the finish line.

1.4.6. Qualification Criteria

At OWG and WCH only those Biathletes may participate who have achieved (in a WCH, BWC or CCH), within the last four years, a competition time that is not more than 20 % behind of the average of the top three placings - or have placed in the top half in JWCH within the last four years.

1.5. REGISTRATION AND ENTRY

1.5.1. Notice of Intent to Participate at IBU Events

There are two separate notices which must be given: registration and entry.

1.5.1.1. Registration and Replacements

Registration is the early notification of intent to participate. Numbers of Biathletes and team staff members that may be registered for an event are detailed in the event specific rules. Registration for events must be done as follows.

a. WCH/JWCH

For the WCH/JWCH, the estimated number of Biathletes and team staff (registration by numbers) must be received by the organizer two months before the beginning of the WCH/JWCH. At least 14 days before the start of the WCH/JWCH, a list of the names and gender of the intended participants

(registration by names) must be received from each nation by the organizer. Replacement of registered Biathletes must be notified to the organizers immediately when the change is made.

b. BWC Events

For BWC events, a list of the names and gender of the intended participants must be received by the organizer at least 14 days before the start of the event. Replacements and changes may be made to BWC registrations but the organizer must be notified immediately when the change is made;

c. OWG

Registration for the OWG must be in accordance with IOC instructions;

d. Other Events

Registration for other events shall be as stipulated in specific event rules.

1.5.1.2. Entry

Entry is the notice of a Biathlete or team being entered to start in a specific competition and must be submitted, for all events, in writing at least four hours before the draw for Individual and Sprint competitions. Entry for team participation in the Relay competition and for team participation in the Team competition, in all events, must be made not later than four hours before the draw. Names of Relay competitors and members of teams in start order must be submitted by 1600 hrs of the day before the Relay and Team competitions.

Entries for the Pursuit competition are not required as all competitors who qualify for the Pursuit in the qualifying competition are assumed to be entered.

Entries for the Mass Start competition are not required as qualification is based on current BWC Score and at WCH on previous competitions.

Numbers of competitors that may be entered for a competition are stated in the event rules.

1.5.2. Registration Procedures and Conditions

a. Registration must be made in writing or by telegraphic means to the address indicated in the invitation and within the required deadline. For WCH, JWCH and BWC events registration must be made by the NF. For the OWG, IOC regulations apply. The NFs have to qualify for participation in the OWG and WCH.

b. By registering a Biathlete, the NF confirms and tacitly guarantees that he is covered by accident and liability insurance and that the competitor is medically fit to compete.

1.5.3. Late Entries

1.5.4.

a. The TD may approve a late entry due to extraordinary circumstances before the draw;

b. The Competition Jury may approve a late entry due to force majeure after the draw. The Competition Jury will direct in which position(s) the late competitor(s) will start. A separate draw may be used for this purpose.

1.5.4. Replacement of Entry - Force Majeure

If an entered competitor cannot start due to force majeure, another registered competitor may take his place, but not later than 30 minutes before the listed start time of the entered competitor. In case of such a replacement a valid reason preventing the start must be proven to the Competition Jury not later than 30 minutes before the listed start time in question.

1.6. DRAW AND ASSIGNMENT OF START NUMBERS

1.6.1. General

Competitors or teams are randomly selected from the entries for the competition, by manual or computer draw, and are assigned their start numbers based on that draw unless other rules regulate that competition.

1.6.1.1. The method of the draw must be approved by the TD.

1.6.2. Timings of Draws

The draw for any competition must be made not earlier than 24 hours before and not later than 15 hours before the start of the competition. However, if the majority of team captains agree, the draw for the Mass Start, Relay or Team competitions may be done at the team captains meeting for the competition which will precede the Mass Start, Relay or Team competition in the event program.

If the Competition Jury decides to repeat a competition or to postpone a competition to a time which is not in the 24 hours period of validity of the draw, a new draw must be made.

1.6.3. Place of Draws

Draws must be done during and at the place of the team captains meetings, and must be visible to all team captains, however, the TD may approve the conduct of a draw outside of the team captains meeting. Such outside draws must be supervised by at least two Competition Jury members.

1.6.3.1. Normal Assignment of Competitors into Draw Groups.

When submitting their entries team captains must assign one competitor to each of the draw groups. If a team consists of fewer competitors than the number of draw groups, the team captain will decide in which groups he will place his competitors (one in each group chosen). If a team consists of more competitors than the number of draw groups, the extra competitors shall be added to the draw groups at the team captain's discretion, one to each group.

1.6.4. Normal Draw for Individual and Sprint Competitions

The order of start shall be decided by randomly drawing the names of competitors from four draw groups into which they have been assigned by their team captains and by randomly drawing the start number for each competitor. The draw will be done separately for each group in the sequence:

Group 1, Group 2, Group 3, Group 4. Every number in the sequence must be assigned to a competitor, blank start numbers are not permitted.

If the draw in the Individual or Sprint competition has 60 or less competitors the draw will be done in 3 groups. If there are 40 or less then the draw will be done in 2 groups following the same principle as for the 4 draw groups.

The Team Captains of the teams with the top 15 athletes, based on the current BWC Total Score standings, are allowed to place those athletes in any draw group regardless of the foregoing regulation.

1.6.4.1. Draw for Group Starts in Sprint Competitions

At international competitions other than the OWG, WCH, JWCH, CCH and BWC competitions, the start for the Sprint competitions may be individual or in groups. If the start is made in groups, the draw groups shall be subdivided into start groups. The number of competitors in the start groups shall depend on the conditions of the competition facilities and on the total number of competitors. Otherwise the draw shall be the same as for individual starts.

For a group start, the start numbers drawn shall determine the competitors' positions at the start.

1.6.4.2. Assignment of Start Numbers and Start Times - Pursuit Competition

A draw is not conducted for the Pursuit competition. Competitors are assigned start numbers and times based on the results of the qualifying competition which may be the Individual, Sprint or Mass Start competition. The EB will direct which will be the qualification competition for each event.

Competitors in the Pursuit will start in the same order in which they finished the qualifying competition: the winner of the qualifying competition will start first with start number 1, the second place of the qualifying competition will start second with start number 2, and so on.

The winner of the qualifying competition will have a start time of zero (0) which will be shown on the start list as the clock time for the start of the Pursuit competition. The remaining competitors in the Pursuit competition will have as their start time the actual time by which they were behind the winner in the Sprint and Mass Start competition and in the Individual one half of the time behind the winner, expressed in time behind to the nearest full second. Start lists are produced based on the foregoing and must show the assigned start lane of each competitor.

1.6.4.3. Draw of Start Numbers and Assignment of Start Tracks - Mass Start Competition

Start numbers for the Mass Start competition and start tracks are determined the same way as for the Relay, by one random draw of all of the competitors.

1.6.5. Draw for Relay Competitions

1.6.5.1. Purpose of the Draw for Relay Competitions

The draw for the Relay competition determines each team's start number which shall be the team's start track number and the team's shooting lane number on the range.

1.6.5.2. Method of Draw for Relay Competitions

For the Relay competition, previous results will determine from which row a team will start in the mass start of the first competitor of each team. Start numbers are in numerical sequence and continue consecutively for all of the entered teams. The draw shall be made as follows.

- a. If there are the same number or fewer teams entered than the number of front row start tracks, only one single draw will be done to assign the start numbers;
- b. If it is necessary to start from more rows than one, the start numbers will be drawn for the teams entitled to start from the first row, then separately, based on entitlement, for each subsequent row.

1.6.5.3. Placement of Competitors in Relay Start Tracks

Start tracks will be numbered from left to right, facing the direction of the start. Number 1 is the left track and the highest number of the front row will be the right track. The lowest number in the second row will be placed behind number 1 and the next consecutive number behind number 2, and so on.

1.6.5.4. Selection of Relay Teams for Start Rows

At OWG, WCH and BWC events, Relay teams entitled to start from the front and each subsequent row shall be in the order of ranking from the results of the previous year's BWC Nations Cup score final standings, with the best teams in front. The number of teams starting from each row shall depend on the number of start tracks available at the competition site, never less than eight. For JWCH, the allocation of start tracks in the first row shall be determined by random draw among those nations that placed highest in the previous year's JWCH Relay, according to the number of front row tracks available. The remaining JWCH teams shall be placed into subsequent rows by one random draw.

If teams entitled to the front row are not entered for the competition, next highest placed teams based on the same criteria shall be allowed to be entered for the draw for the front row. The same procedure will be done for the second row, and if necessary, for the third and subsequent rows.

1.6.5.5. Extra Relay Teams

Extra Relay teams are not permitted at OWG, WCH, JWCH or BWC competitions. At other events extra Relay teams are permitted: they must start in rows behind the official teams and will not be awarded official prizes. Extra teams may consist of members of more than one nation.

1.6.6. Order of Start and Draw for Team Competitions

The order of start for Team competitions shall be drawn by one random draw.

1.7. TEAM CAPTAINS MEETINGS

1.7.1. General

At each Biathlon event, meetings must be held for the team captains to elect the Juries, conduct draws and to give information about the event and the competitions. The first meeting must be held at the latest on the day before the first day of Official Training in order to elect the Jury of Appeal and the Competition Jury. For the remaining meetings of the event, the dates and timings are dictated by the timings required to conduct the draw.

The Competition Chief shall chair the meetings.

1.7.2. Attendance at Team Captains Meetings

The following persons shall attend the team captains meetings:

- the official IBU EB representative;
- the TD(s) and IRs;
- all Competition and Appeal Jury members;
- at least one representative from each participating team;
- the Competition Chief;
- the Chiefs of Range, Course, Timing, Stadium and the Competition Secretary or their representatives;
- the necessary meeting support staff and interpreters, if required.

1.7.3. Team Captains Meeting Agenda

The agenda for a team captains meeting must include the following items, as appropriate:

- Call to order;
- Roll call of nations (or teams);
- Election of the Jury of Appeal and Competition Juries (first meeting)
- Draw(s);
- Technical briefing for the next competition(s);
- TD's comments;
- Weather report;
- Other business;
- Adjournment.

1.7.4. Start lists and start numbers should be issued to the teams at the end of the meeting.

1.8. PROHIBITIONS AND SANCTIONS FOR NON-COMPETING PERSONS

1.8.1. General

Unfair assistance or assistance not allowed by these Rules to competitors during a competition is prohibited.

1.8.2. Specific Prohibitions

1.8.2.1. On the Shooting Range.

It is forbidden for any person to give competitors any acoustic or visual information, advice, information by radio or any other communication method on the range including 10 m to the left and right of the range. This does not apply to the general expressions of applause or disappointment by the spectators.

The area of the range will be marked by clearly visible markings, 10 m from the left and right shooting lanes.

1.8.2.2. On the Course

Pacing - running or skiing in front, beside or behind competitors - is forbidden. It is permitted to run without skis up to 50 m beside competitors to give competition information or to offer beverages. It is forbidden to touch competitors in such a way as to assist their propulsion or to obstruct other competitors. Assistance to competitors to change the glide performance of their skis is prohibited during the competition.

In the area 100 m before and to 100 m after the range, the hand-over zone and in the last 100 m before the finish, running beside competitors is forbidden.

1.8.3. Sanctions

Spectators and other persons must be clearly informed of these rules by the official announcer before the beginning of the competition and warned that a violation of these rules may lead to spectators being removed from the area of the competition by the Organizing Committee.

2. ORGANIZATIONS AND APPOINTMENTS

2.1. GENERAL ORGANIZATIONS AND APPOINTMENTS

The following organizations and persons shall be established or appointed for the preparation, conduct and control of Biathlon events and competitions:

- Organizing Committee;
- Competition Juries, Men and Women;
- TD(s) and IRs;
- Jury of Appeal.

2.2. THE ORGANIZING COMMITTEE

The right to host an event or competition is awarded to an organizer in accordance with the applicable event rules. The organizer must prepare and conduct the event or competition by these Rules and the applicable event rules, and following the guidance provided in the Organizers' Guide about all aspects of hosting an event. In order to be eligible to host an IBU event or competition, an organizer must hold a valid IBU site license for the facility for the appropriate event or competition.

2.2.1. Information Bulletins and Invitations

The organizer of an IBU event must send the information bulletins and/or the invitation for the event to all IBU NFs as stipulated in the event rules, on the required dates. The required contents of invitations and bulletins are provided in the Organizers' Guide.

2.3. COMPETITION JURY

2.3.1. General

A Competition Jury is established for Biathlon events to act as the authority on all matters related to the event, which are not specifically designated to be under the jurisdiction of other IBU organs. The Competition Jury is established and operates under the authority of these Rules. A separate Competition Jury is established for Men's and Women's competitions.

The Competition Jury will make decisions about the event, competitions and related arrangements and conditions to ensure fairness and correctness. The Competition Jury imposes penalties for violations of rules reported by the TD(s), IRs, competition officials and Competition Jury members, and penalties and disciplinary measures on its own part. Additionally, the Competition Jury awards time adjustments and rules on competition situations not stipulated in these Rules or other IBU authority publications. The Competition Jury also reviews and decides on all protest submitted to it.

The procedures of the Competition Jury are governed by the IBU Disciplinary Rules.

2.3.1.1. Time of Election

The Competition Juries established for an event must be elected at the latest on the day before the first Official Training. The Competition Juries remain competent throughout the event, however, changes of elected members may be made by election for pressing reasons.

2.3.1.2. Chair

The Chairman of the Competition Jury is the TD.

2.3.2. Competition Jury Composition

At OWG, WCH, JWCH and BWC competitions the Competition Jury shall consist of five members as follows:

- a. the IBU TD - Chairman;
- b. the second IBU TD at OWG;
- c. the Competition Chief;
- d. two or more team captains elected by the team captains.

2.3.2.1. Only one person from any nation may be a member of a Competition Jury at the OWG, WCH, JWCH and BWC competitions.

2.3.2.2. At other international competitions the composition of the Competition Jury shall be agreed upon by the organizer and the team captains of the participating federations or clubs.

2.3.3. Election of Competition Jury Members

Election of the Competition Jury is conducted by the TD during the team captains meeting. Nominations are requested from the team captains for candidates to be members of the Competition Jury. If there are the same number of candidates as open Competition Jury positions, no vote is necessary and the candidates become Competition Jury members by acclamation. If there are more candidates than open Competition Jury positions, a vote must be taken from the team captains. Only one vote per nation is allowed. A simple majority will elect a Competition Jury member. If no simple majority is obtained by any candidate, the person with the least votes is removed as a candidate and the vote is repeated for the remaining candidates until the Competition Jury members have been elected.

2.3.4. Competition Jury Meetings and Decisions

The Competition Jury must assemble within a minimum of time whenever a meeting is required, as directed by the Competition Jury Chairman, and must remain readily available for Competition Jury duties for 15 minutes after the Interim Results have been published. Specific meeting times are detailed in Annex B to these rules.

Decisions of the Competition Jury are normally made with all members present. However, in exceptional cases the Competition Jury is competent to pass a resolution if at least three members are present. The Competition Jury chair shall only vote in case of a tie vote. Decisions are made by each member voting on the issue and a simple majority shall decide.

2.3.5. Tasks of the Competition Jury

A detailed list of tasks of the Competition Jury is given in Annex B to these Rules.

2.3.6. Appeals Against Competition Jury Decisions

An appeal may be made against a decision of the Competition Jury. The appeal must be made to the Jury of Appeal established for the event, and in accordance with the IBU Disciplinary Rules.

2.4. TECHNICAL DELEGATES

2.4.1. General Regulations

TDs are nominated by the IBU TC, confirmed by the IBU EB, and are official representatives of the IBU. TDs are responsible to ensure that events are prepared and conducted in accordance with IBU rules. Additionally, TDs act as consultants and advisors to the Organizing Committee. Organizing Committees must follow instructions issued by TDs in accordance with these Rules.

2.4.2. Selection of TDs

TDs shall be selected by the IBU TC from among its members or from the TD group for OWG and IBU events immediately after the awarding of the OWG, WCH and JWCH and two years in advance of BWC, and may not be from the host nation. Two TDs shall be appointed for the OWG, one as an assistant TD. For all other events, one TD shall be appointed. TDs for BCC events may be recommended by the Organizing Committee and may be from the host nation, and must be approved by the TC. TDs appointed for events must hold a valid IBU TD license.

2.4.2.1. The TD shall be Chairman of the Competition Jury or Juries for the event for which he has been appointed. At OWG, the assistant TD shall be a member of both, the Men's and Women's Competition Juries.

2.4.2.2. If the appointed official representative of IBU from the EB is not present at the event, the TD shall perform that function.

2.4.2.3. A TD's function shall be valid only for the event for which he has been appointed.

2.4.3. Contact with Organizers and Site Visits

Immediately after being appointed, the TD must establish contact with the organizer. TDs shall conduct necessary inspections of the event site and meetings with the organizers. TD inspection and meeting visits to event sites must be approved by the IBU TC.

2.4.4. Tasks and Duties of TDs

The TD must arrive at the event site in sufficient time before the event and must perform all the necessary functions required by these Rules and the circumstances, before, during and after the event. At the end of the event, the TD must hold a critique on how the event was conducted. All Chiefs of the Organizing Committee should attend the critique. The TD is responsible for directing the IRs and for their welfare during the event.

2.4.4.1. Detailed Tasks and Duties

Detailed tasks and duties of TDs are given in Annex B to these Rules.

2.4.5. TD Costs

Organizers of IBU events and competitions are responsible for paying the TDs' travel, accommodation and meal costs for the period of the TDs' duty, and daily allowance as stipulated by the IBU regulations in force at the time.

2.5. INTERNATIONAL REFEREES

2.5.1. General Regulations

IRs are persons who are appointed by the IBU TC to officiate at IBU events. They are responsible for the correct performance of duties and tasks related to their area of responsibility, in cooperation with the Competition Committee. IRs are required to direct, advise and assist competition officials in their duties, and to intervene to prevent a mistake from being made. The IRs at an event are subordinate to the TD, report to him in the performance of their duties and must follow his directions.

2.5.2. Selection of IRs

IRs are appointed by the TC for the OWG, WCH, JWCH, BWC and CCH events from the pool of qualified referees. IRs for BCC may be appointed by the organizers. Only such persons may serve as IRs at competitions who hold a valid IR license and have achieved all requirements of the IBU IR qualification and training program. In order to serve as an IR in another nation, the person must have held a valid IR license for at least four years, however, exceptions may be permitted by the TC.

At OWG, WCH and JWCH all appointed IRs must be from outside the host nation. For BWC events, the IR for material control must be from outside the host nation but the other IRs may be from the host nation. At CCH and BCC all IRs may be from the host nation.

2.5.2.1. At OWG, WCH and the first BWC event of the season, the IR for material control must be a member of the TC Material Sub-Committee.

2.5.3. IR Functions at Competitions

The functional areas where IRs will be employed at competitions are:

- start/finish;
- shooting range;
- course;
- material control.

2.5.4. Numbers of IRs for Events

The following numbers of IRs shall be appointed for events:

- | | | |
|----|------|---|
| a. | OWG | 8 |
| b. | WCH | 4 |
| c. | JWCH | 4 |
| d. | BWC | 4 |
| e. | CCH | 4 |
| f. | BCC | 4 |

2.5.5. IR Tasks and Duties

Detailed tasks and duties of IRs are given in Annex B to these Rules.

2.5.6. IR Costs

Organizers of events and competitions are responsible for paying the IR's travel, accommodation and meal costs for the period of the IR's duty, and daily allowance as stipulated by the IBU regulations in force at the time.

3. COMPETITION FACILITIES AND ARRANGEMENTS

3.1. GENERAL

The competition facility is the site on which Biathlon competitions and training are conducted, and consists of the stadium area and the course. Located in the stadium area are the start/finish areas, shooting range, penalty loop, Relay hand-over zone, ski test area, team wax huts, spectator areas, the necessary Organizing Committee buildings and offices, and parking spaces. The site must be technically suitable, according to these Rules, for facilitating all the types of Biathlon competitions and must offer the best possible viewing of the competitions to spectators and for the requirements of TV coverage.

The facility for hosting the OWG, WCH, JWCH and BWC events must have an IBU site license for the applicable event.

3.1.1. General Requirements

The start and finish areas, shooting range, penalty loop and Relay hand-over zone shall be located on level ground and close together with good viewing of competition activities for the majority of the spectators. These areas and critical parts of the course must be fenced in order to prevent competitors from being impeded or going astray, and to prevent access by unauthorized persons. There must be sufficient space for competitors and competition officials to conduct their required activities and adequate room for team support staff, press, photographers and spectators, and enough space for TV camera crews and transmission facilities without interfering with the competition.

Diagrams of examples of facility lay-outs are given in the Organizers' Guide.

3.1.1.1. Maximum Distance

The competition facility must be no more than 30 km or 30 minutes travel from the teams' living accommodations, unless otherwise approved by the IBU EB.

3.1.1.2. Competition Office

A Competition Office or sub-office must be located in or near the stadium area. The office shall be open during all Official Training and competition times and will be the official interface between teams and the Organizing Committee. Teams must be able to submit entries for competitions at the office and information about the event and competitions must be available in the office. A mailbox for each participating team must be provided in the office.

3.1.1.3. Electronic Information Board

At OWG, WCH, JWCH and BWC there must be an electronic information board with at least eight lines, in the stadium area, in a location directed by the TD.

3.2. START AREAS

3.2.1. General

The start area for all competitions must be level with the snow well packed and smoothly groomed, and must be visible to spectators. The start line shall be placed at right angles to the skiing direction and will be marked with a red line sunken into the snow. The area must be well fenced and must be suitable for the traffic flow of competitors, team support staff and officials. There must be a warm-up space immediately adjacent to the start area for competitors to perform their final, before competition warm-up and arrangements to take care of warm-up clothing, and must contain an adequate number of rifle racks.

3.2.2. Individual, Sprint and Team Competition Start Areas

The start area for Individual, Sprint and Team competitions must be approximately 10 - 12 m long and 4 - 6 m wide and must be separated from the warm-up area by a fence with an opening to allow controlled access.

3.2.3. Pursuit Competition Start Area

The start area for the Pursuit Competition must have a minimum of three start lanes and the actual number of start lanes is determined by the number of simultaneous start times in the start list - if there

are four starts at the same second, then there must be four start lanes, etc. A common start line, marked in the snow, must cross the end of the start lanes. The start lanes must be 1.5 m wide and sufficiently long to hold the required number of competitors. The lanes must be immediately adjoining each other and must be separated by fencing.

There must be a spare passage or lane which allows access across the start line in the case of late starts. This lane must be controlled by a start official with a stopwatch synchronized to the competition time.

3.2.3.1. Pursuit Start Boards

Separate boards, showing the start numbers and start times for each lane in large print readable by competitors and officials, must be positioned in front of the applicable start lanes.

3.2.4. Relay, Sprint Group and Mass Start Competition Start Area

The start area must be laid out in such a way that all the competitors will be required to ski the same distance until they reach the common trail. A minimum of eight straight, parallel sets of tracks, with 1.5 to 2 m between each set of tracks (measured from center to center), must be set for a minimum of 50 m from the start line. The number of start tracks is to be based on the space available and the number of Relay teams entered, with the objective of having the fewest possible start rows. The end of the parallel tracks must be clearly marked.

After the first parallel tracked section there must be a further straight 50 to 100 m of level and smoothly groomed, trackless, gradually converging area which leads to the competition trail.

3.2.4.1. Start Track Number Boards - Relay, Group and Mass Start competition

The start tracks must be marked with the numbers of the tracks. There must be the same number of boards as the number of teams in the competition. The number boards are to be placed on the left of each track and must show the number to the front and the rear. The numbers on the boards must be at least 20 cm high and must be highly visible to the competitors and TV.

3.2.5. Course Information Boards

There must be a board within the start area on which the course map is shown. At the start line there must be a board which shows the trail color sequence for the competition.

3.2.6. Start Clock

At the start area for Individual, Sprint, Pursuit and Team competitions there must be a start timer placed so that it is easily readable from the start line. The display of the timer and the sound signal must be synchronized for the Individual, Sprint and Team competitions. As well, in or near the start area there must be a clock displaying the correct time of day, which must be easily visible to competitors in the area.

3.2.7. Start Equipment Control

The start equipment control must be located in close proximity to the start. Its placement and design must facilitate the smooth, orderly and timely flow of competitors through to the start. The control station must have tables and the required equipment and forms to perform the checks.

3.3. COURSE AND ASSOCIATED PARTS

3.3.1. General

The course is the network of ski trails to be used for the competition. It shall consist of continuously changing flats, climbs and downhill sections. Extremely long and difficult climbs, dangerous descents, monotonous flats and hills that must be sidestepped are not permitted. Changes in direction of a trail must not occur so frequently that a competitor's ski rhythm is seriously disturbed.

3.3.2. Altitude, Width and Length

The maximum altitude of any part of the course may not be higher than 1800 m above sea level, unless an exception is specifically authorized by the IBU EB, TC or TD in necessary circumstances. For the OWG, WCH, JWCH and BWC competitions, trails must have a minimum width of 6 m of groomed snow surface. If required in places like difficult climbs, the trail must be wider. If narrower sections such as bridges or mountain passes are unavoidable, the narrow parts may not be less than 4 m wide or longer than 50 m. The actual length of the course may not be more than 5 % different from the length specified for the competition.

- 3.3.3. Use of Trails
Trails in a competition may be used several times during a competition if they are at least 6 m wide. If trails are less than 6 m wide, they should not be used more than twice during a competition. For flexibility of usage there should be a minimum of two separate trail loops.
- 3.3.4. Setting of Tracks
If required by the competition circumstances, the IBU TD will direct that a track is to be set on the right or left side of the trail. If required, downhill sections will be tracked as directed by the TD. Tracks must not be set in such a way or in places where they may endanger or hinder competitors. The width and depth of tracks must be set so that all regular types of boots and bindings can be used without side friction.
- 3.3.5. Safety
Competitors must be allowed to ski downhill at full speed without undue risk of an accident. When evaluating the risk, extremely fast trail conditions must be considered.
- 3.3.6. Grooming
Trails must be as level as possible, solidly packed and smoothly groomed. They must not be artificially frozen. Downhill turns must be banked as necessary. All types of hindrances and obstacles must be cleared from the trails, such as stumps, branches, stones and soil. Overhanging or protruding branches must be trimmed so that they do not obstruct or endanger competitors.
- 3.3.7. Marking
The trails must be so clearly marked and defined so that at no time a competitor is in doubt how to follow the trail. This applies especially to descents and other critical points. Clear markings must be placed at such points. At 100 m from the finish line there must be a sign board indicating „Finish -100 m“.
- 3.3.7.1. Course Sequence Colors
The sequences of the trails must be uniformly marked on the right side in the ski direction by colored sign boards. The first trail must be marked red, the second green, the third yellow, the fourth blue and the fifth brown. If a trail is to be used more than once, the colors must appear on the boards in the sequence of use from left to right or from top to bottom. Junctions must be clearly marked with trail colors. If only one trail loop is used for the competition, the marking color shall be red.
- 3.3.8. Fencing
All trails that will not be used in the competition must be fenced or barricaded. Trails close to each other must be separated by fences so that competitors cannot go on the wrong trail.
- 3.3.9. Forerunners
Immediately before the start of the competition the entire course must be skied before the first competitor's start by at least ten forerunners who will not take part in the competition. While on the course, they will clear it and correct the markings, if required.
- 3.3.10. Course Specifications by Competitions
The following Table 1 details the required technical specifications for courses for each type of competition.

TABLE 1 - COURSE SPECIFICATIONS BY COMPETITIONS

1	2	3	4	5	6	7
Class of Competitor	Course Length and Type of Competition	Shooting Bouts	Distance Between Shooting Bouts	Height Difference	Maximum Climb	Total Climb
MEN	20 KM INDIVIDUAL	BETWEEN 4 - 17 km	3.5 KM	200 M	75 M	600 - 750 M
	10 KM SPRINT & 10 KM TEAM	BETWEEN 2.5 - 7.5 KM	3 KM	200 M	75 M	300 - 450 M
	12.5 KM PURSUIT	AT 2,5, 5, 7.5, 10 KM	2.5 KM	200 M	75 M	350 - 500 M
	4 X 7.5 KM RELAY	AT 2.5 & 5 KM	2.5 KM	100 M	75 M	210 - 300 M
	15 KM MASS START	AT 3, 6, 9, 12 KM	3 KM	150 M	75 M	400 - 500 M
WOMEN	15 KM INDIVIDUAL	BETWEEN 2.5-12.5 KM	3 KM	150 M	75 M	400 - 500 M
	7.5 KM SPRINT & 7.5 KM TEAM	AT 2.5 & 5 KM	2.5 KM	100 M	75 M	210 - 300 M
	10 KM PURSUIT	AT 2, 4, 6 & 8 KM	2 KM	100 M	75 M	200 - 350 M
	4 X 7.5 KM RELAY	AT 2.5 & 5 KM	2.5 KM	100 M	75 M	210 - 300 M
	12.5 KM MASS START	AT 2.5,5,7.5, & 10 KM	2.5 KM	100 M	75 M	350 - 500 M
JUNIOR MEN	15 KM INDIVIDUAL	BETWEEN 2.5 - 12.5 KM	3 KM	150 M	75 M	400 - 500 M
	10 KM SPRINT & 10 KM TEAM	BETWEEN 2.5 - 7.5 KM	3 KM	100 M	75 M	300 - 450 M
	12.5 KM PURSUIT/ MASS START	AT 2.5, 5, 7.5, 10 KM	2.5 KM	150 M	75 M	350 - 500 M
	4 X 7.5 KM RELAY	AT 2.5 & 5 KM	2.5 KM	100 M	75 M	210 - 300 M
JUNIOR WOMEN	12.5 KM INDIVIDUAL	AT 2.5, 5, 7.5 10 KM	2.5 KM	100 M	75 M	300 - 400 M
	7.5 KM SPRINT & 7.5 KM TEAM	AT 2.5 & 5 KM	2.5 KM	100 M	75 M	210 - 300 M
	10 KM PURSUIT/ MASS START	AT 2, 4, 6, 8 KM	2 KM	100 M	75 M	200 - 350 M
	3X 7.5 KM RELAY	AT 2.5 & 5 KM	2.5 KM	100 M	75 M	210 - 300 M

Notes to Table 1

Column 1:	Class of Competitor: according to these Rules.
Column 2:	Course Length and Type of Competition: the required length of the course and the type of competition according to these Rules.
Column 3:	Shooting Bouts: where the bouts of shooting must take place, approximately. The column shows between what distances shooting must occur or at what distances shooting must take place.
Column 4:	Distance between Shooting Bouts: the minimum distance between successive shooting bouts in the competition.
Column 5:	Height Difference: the maximum permitted difference in altitude between the highest and lowest point of the competition course.
Column 6:	Maximum Climb: the maximum permitted vertical height of an ascent without either a flat part or descent of at least 200 m in length.
Column 7:	Total Climb: the total climb for the competition (the sum of all the ascents) for each competitor.

3.3.11. Relay Hand-over Zone

In Relay competitions there must be a well-marked hand-over zone, 30 m long and 8 m wide, at the end of a straight section placed in such a way that incoming competitors will arrive at a controlled speed. The last 50 m of the trail before the zone must be at least 8 m wide. The hand-over zone must begin at the timing line. The beginning and end of the zone must be marked with a red line in the snow and with a sign at the beginning: "Hand-over". The zone must be fenced along both sides, with one access gate for controlled entry by starting competitors.

3.3.11.1. The last 50 m of the course before the hand-over zone shall be straight. The hand-over zone may only be entered by the incoming and outgoing competitors and the officials responsible for control of the hand-over zone.

At 100 m before the hand-over zone there must be a sign board indicating "100 m".

3.3.12. The Penalty Loop

For the Sprint, Pursuit, Mass Start, Relay and Team competitions, a penalty loop must be set up immediately after the shooting range. The loop must be an oval trail which is 5 m wide and 150 m (plus or minus 5 m) long, measured along the inside perimeter of the loop.

3.3.12.1. The penalty loop must be located in a level area in such a way that no additional distance between the course and the penalty loop has to be skied by the competitors when they have to enter the penalty loop.

3.3.13. The Waiting Area in Team Competitions

In Team competitions, immediately after the exit from the penalty loop and adjacent to the trail, an area must be set up with marked waiting enclosures for the two team members not shooting during that bout of shooting. Each enclosure must be 2 m wide and 2 m long, clearly marked with paint lines or low fencing on the sides and rear, and with paint lines at the front, and must all have equal access to the outgoing trail.

3.3.14. Ski Test Area

At OWG, WCH, JWCH and BWC a ski glide test area must be set up on slightly sloping terrain in or near the stadium area, large enough to accommodate all participating teams. The glide test downhill slope must be a 20 to 30° slope and 25 to 30 m long. The test area must be prepared and groomed the same as the competition trails. In the ski test area there must be an information board on which the temperature of the air and the snow, at the highest and lowest points of the course profile, shall be shown and updated at three, two and one hours prior to the first start, and thereafter every 30 minutes until the last competitor has started.

3.3.15. Warm-up Trail

In proximity of the stadium and with easy access from the team huts, there should be a trail on which competitors can warm up. The trail should be approximately 1000 m long and must be prepared the same as the competition trails.

3.4. SHOOTING RANGE

3.4.1. General

The shooting range is where all shooting takes place during a Biathlon competition. It must be located in the central area of the stadium and both the targets and the shooting ramp must be visible to the majority of spectators. The range must be flat and level and must be surrounded by adequate safety berms on the sides and behind the targets. The placement and configuration of the range must be set up with strict regard for safety in relation to the trails, stadium and the surrounding area. The shooting direction should be generally north to enhance light conditions during competitions.

3.4.1.1. The range must conform with all local laws.

3.4.2. Specifications and Configurations

3.4.2.1. Shooting Distance

The distance between the front edge of the shooting ramp and the line of targets must be 50 m (+ - 1 m).

3.4.2.2. Prone and Standing

Looking in the shooting direction, the right half of the range is for shooting in the prone position and the left half for shooting in the standing position. The division must be clearly indicated to the competitors by sign boards. An exception to the right and left configuration is made during Pursuit, Mass Start and Relay competitions when competitors fire from all lanes in both prone and standing positions.

3.4.2.3. Entrance and Exit

During training and competition, competitors must enter the range from the left and exit on the right side.

3.4.2.4. Levels

The surface of the shooting ramp and the surface on which the targets stand must be near the same level as possible. The firing ramp and the surface on which the targets are placed must be at a higher level than the ground between them by at least 30 cm, and more if required by local snow conditions.

3.4.2.5. Space Configurations

At the rear of the range there must be a fenced off area of 12 to 15 m width (shooting ramp), measured back from the front edge of the firing line, and extending along the entire back of the range. The area is reserved for competitors, officials and members of the Juries. However, if authorized by the TD, other persons such as TV camera crews may be allowed in this area. Directly behind that area there must be a second fenced area of at least 2 m width reserved for three team staff members per team. This area must be configured so that the team staff members have good visibility of the targets and the shooting ramp area.

3.4.3. The Shooting Ramp

The shooting ramp is the area at the rear of the range where the competitors lie or stand to fire. The ramp must be totally covered with snow, solidly packed, even, smoothly groomed and not icy, and the entire area used by competitors during the competition must be level.

3.4.3.1. Shooting Lanes

The shooting ramp is divided into shooting lanes from which one competitor at a time will shoot. Every shooting lane must be at least 2.5 m but not more than 3 m wide. The width of the lanes must be marked on both sides on the shooting ramp from its front edge for a distance of 1.5 m to the rear with a red-colored board sunken into the snow so that it is level with the snow surface. Both sides of each lane must be marked from the ramp to the targets with flags, posts or similar markings, which clearly define the lanes, but do not interfere with shooting.

There must be a distance of 3 m between the outer edge of the left and right lanes and the start of the safety berms they adjoin. This distance must be maintained from the ramp to the targets.

3.4.3.2. Shooting Mats

For shooting in both the prone and standing positions, mats must be placed at the front part of each firing lane on the shooting ramp. The mats must be 150 cm x 150 cm and 1 to 2 cm thick, and must be made of synthetic or natural fibers with a rough, non-slip surface.

3.4.4. Targets

There are two main kinds of targets used for Biathlon training and competitions - metal and paper. Only metal targets shall be used for competition and only paper targets shall be used for zeroing of rifles. Both paper and metal targets may be used for training.

Only targets which are in conformity with the IBU Material Catalogue (Annex A) may be used for IBU competitions. A shooting range for OWG, WCH, JWCH and BWC competitions must have at least 27 shooting lanes and targets. The targets used for OWG and WCH must have a remote reset capability (without rope).

3.4.4.1. The same type of targets must be used for all competitors in one competition.

3.4.4.2. Target Maintenance

Targets must be well maintained and adjusted, according to the manufacturer's instructions.

3.4.4.3. Target Placement

The targets must be set up in a level straight line, parallel to the front edge of the shooting ramp. They must be level in all directions. The targets must be placed so that the center aiming mark of the target is in the middle of the width of the lane. The targets must not deviate sideways more than 2 % from the right angle lines of their shooting lanes. The target center must be 80 to 100 cm higher than the surface of the shooting ramp.

3.4.4.4. Target Background

The background behind the targets must be white from the bottom of the target to 1 m above the upper edge of the target.

3.4.5. Numbering and Markings

The firing points and the corresponding targets must have the same number, easily visible, and beginning from the right with number 1. At OWG, WCH, JWCH and BWC competitions the shooting lanes must be numbered on the left and right side at the front edge of the shooting ramp. The numbers at the firing ramp must be placed so that they do not obstruct TV coverage of the shooting athletes and must be at least 20 cm and not more than 30 cm high and at least 3 cm in width. The size of the target numbers is 40 cm high with a line width of 4 cm and they must be mounted immediately above the targets.

3.4.5.1. Entrance and Exit Boundaries

At the entrance and exit of the range, 10 m outward from the left and right hand shooting lanes, there must be a clear marking. These markings indicate the outer edges of the information prohibition zone of the range, and for Team competitions the entrance markings indicate the point that the Team must pass in closed formation.

3.4.6. Wind Flags

At competitions and official training, wind flags must be installed at the side of every third shooting lane, 5 m from the shooting ramp and 20 m from the target.

The flags must be placed so that the top edge of the flag is at the same level as the bottom edge of the targets and can not obstruct direct line of sight to the targets.

3.4.7. Relay Cups

At Relay competitions each team must have its own target. At each firing point there must be two containers for spare rounds, with the one to be used in the prone position placed on the ground to 10 cm above and the one to be used in the standing position placed 1 m above the ground. The containers must have rounded bottoms and must facilitate the easy picking-up of the spare rounds.

3.4.8. Rifle Racks

Suitably placed on the range in front of the team staff area, there must be racks for two reserve rifles for each participating team during competitions and an adequate number during training. The racks must be clearly marked with the names of the participating nations or teams. The racks may be used by teams during competition, training and zeroing.

3.4.9 Video Cameras on Range

For OWG, WCH, JWCH and BWC competitions, video cameras must be installed on the shooting range so that the placement and number of cameras totally covers and records all actions of all competitors on the range.

3.5. FINISH AREA

3.5.1. General

The finish area begins on the competition trail at the finish line and ends at the start of the finish equipment control point and must be at least 20 m long and 8 m wide. The last 50 m before the finish line must be straight and 8 m wide. Only officials and finishing competitors are permitted in the finish area. In the finish area, the 10 m distance immediately after the finish line must be clearly marked to indicate the zone in which competitors are not permitted to display their rifles or skis for advertising.

3.5.1.1. The finish line must be marked by a sunken red line in the snow at a right angle to the incoming trail.

3.5.2. Finish Equipment Control

The finish equipment control must be located so that finishing competitors flow into it and through it naturally and under control. This is particularly important for Relay competitions so that finished competitors do not obstruct the outgoing trail from the hand-over zone. The finish area fencing and placement must be set up so that competitors have no way of evading the finish equipment control.

3.5.3. Media Area

Adjacent to the finish area, a fenced-off area (Mixed Zone) has to be established for TV, journalists and photographers to have close contact with the competitors for interviews and pictures after they finish.

3.5.4. Refreshment Point

There must be a refreshment point after the finish area, its location to be agreed with the TD, to serve drinks and to provide paper tissues and similar necessary services to competitors after they finish. Any consumable served must be protected against introduction of unauthorized foreign substances.

3.6. TEAM WAXING AND WARMING CABINS

In or very near the stadium area, there must be a sufficient number of shelters, permanent buildings or good quality temporary structures (including tents), in which teams may store equipment, wax skis and keep warm. The cabins must be provided with ventilation, lights and electric power outlets, and must be warmed to at least 20 degrees Celsius. Each team should have its own cabin but combining of more than one team per cabin is allowed if work-space and security requirements permit.

Two rooms per team should be provided if possible to prevent breathing of waxing fumes by the athletes.

The cabins should be equipped with locking doors and teams are to be issued with keys. If the entrances cannot be locked, the Organizer must provide security for the cabins. Parking space for teams must be provided within a reasonable distance of the cabins.

A loudspeaker of the public address system should be placed near the cabins.

4. COMPETITION EQUIPMENT AND CLOTHING

4.1. GENERAL RULES

The term competition equipment and clothing includes all of the equipment, competition gear and clothing which the competitor uses during a competition, including advertising. The definitions and

specifications of competition equipment and clothing, and advertising, are regulated by the IBU Material Catalogue (Annex A).

4.2. INSPECTIONS OF EQUIPMENT AND CLOTHING

4.2.1 General

Competitors' equipment and clothing are inspected at the start and finish of a competition. Additionally, a preliminary check is provided well in advance of a competition to ensure that no problems occur.

4.2.2. Start Equipment Control Inspection

Competitors shall report at the start equipment control area not later than 15 minutes prior to their scheduled time of start to have their skis and rifle checked and marked, and their clothing inspected. Competitors whose equipment and clothing do not conform with IBU regulations will not be authorized to pass through the start equipment control until the discrepancies have been corrected.

Equipment, rifles and clothing which have been inspected and marked at start equipment control must not be modified in any way prohibited by these Rules or the IBU Material Catalogue.

4.2.2.1 Specific Checks at Start Equipment Control

The following checks are made:

- a. The competitor is wearing his start number;
- b. The rifle is safety checked to confirm it does not contain a live cartridge in the chamber or in its inserted magazine;
- c. The weight, trigger resistance, dimensions and shape of the rifle, and the advertising on it are checked for correctness. The rifle is marked and the serial number is recorded;
- d. Skis and poles are checked for correctness and the skis are marked;
- e. Clothing and other equipment is inspected for correctness, including advertising;
- f. Team reserve rifles, maximum two per team, are to be checked and marked at this control prior to being placed in the rifle racks on the range.

4.2.2.2. Markings

Marking of equipment is done to prevent unauthorized change of equipment during the competition by using the competitor's start number and colors. Both skis and the rifle are marked. In Individual, Sprint, Pursuit, Mass Start and Team competitions, one color shall be used to mark skis. The marking shall be made with paint or sticker, unique for that competition. In Relay competitions the skis must be marked according to the team start numbers and the colors or numbers of the start sequence within the team.

4.2.2.3. Delayed Start

Delayed starting times because of late reporting at the equipment control area or corrections that have to be made to clothing and equipment, shall be the responsibility of the competitor.

The organizer must provide sufficient staff to ensure correct control times and to prevent delayed starting times of competitors who have reported in time. The early opening of the start equipment control is permitted and encouraged at all competitions in order to avoid time difficulties.

4.2.2.4. Final Check Before Start

Between one to two minutes prior to the start, a check shall be made of the competitor by the starter's assistant(s) in order to ensure the following:

- a. The competitor is wearing a start number;
- b. The skis and rifle are properly marked;
- c. Advertising regulations are not being violated.

4.2.3. Finish Control

After arriving at the finish and in Relay competitions after the hand-over zone, a check shall be made to confirm the following:

- a. The rifle does not contain live ammunition in the chamber or inserted magazine and the serial number is confirmed with the start control list;
- b. Competitors have finished with at least one ski marked for them and their marked rifle with the skis and poles in accordance with the Material Catalogue;

- c. The rifle trigger resistance is at least 0.5 kg (may be conducted as a spot check, if authorized by the TD);
- d. The advertising regulations were not violated.

4.2.4. Preliminary Examination of Equipment and Clothing

At OWG, WCH, JWCH, BWC and CCH events, the Organizing Committee in consultation with the TD shall conduct a preliminary inspection of equipment to confirm that the equipment and clothing to be used by teams is permitted by the rules. The check will normally be done at least two days before the first competition. The pre-examination does not relieve competitors of the obligation to pass equipment control at the start and finish.

4.2.4.1. Attendance

The examination will be conducted by the responsible staff of the Organizing Committee. Also in attendance must be the IR for material control. The examination is voluntary but a team representative should attend with clothing or equipment which may be questionable. At the OWG and the first BWC event of a season, it is mandatory that at least one representative of each team attend the examination.

5. TRAINING AND ZEROING

5.1. GENERAL

Competitors and team staffs must be provided the opportunity and the facilities to prepare for the competitions. For that purpose the organizer must provide Official Training times, ski testing facilities, the opportunity to zero rifles and warm-up for competitors prior to the competition.

5.1.1. Exceptions

In extraordinary circumstances, the Competition Jury may close the entire facility or limit training on the facility to certain parts and timings.

5.1.2. Rights for Training

Competitors who have registered for an IBU event may use the competition facility during the Official Training. Men and Women may not participate in Official Training and zeroing for the other gender. All competitors who participate in Official Training must wear a training bib.

5.1.3. Types of Training

Official Training is the period of time that the Organizer must provide for training on the facility. During Official Training the facility must be prepared the same as for the competition. Unofficial Training is the time that the Organizer allows for training on the facility other than Official Training, and the facility does not have to be prepared as for the competition. Organizers should allow as much time as is possible in the event program for Unofficial Training.

5.2. OFFICIAL TRAINING

5.2.1. General

At OWG, WCH, JWCH, BWC, CCH and BCC events the competition facility must be open for inspection and training (Official Training) at least once before the first competition, prepared as for the competition and at the same time of day as the competitions. Each subsequent competition should also be preceded by Official Training unless it is not possible in the event program or due to other circumstances.

5.2.1.1. Skiing Training

The competition course for Official Training must be open at the times corresponding to the competition, if possible, and must be groomed, marked and fenced or barricaded as for the competition.

5.2.1.2. Shooting Training

The practice shooting on the day prior to the competition must be organized at times corresponding to the competition day, if possible. The practice will begin at the same time as the zeroing time of the competition day, with only paper targets in use and on assigned shooting lanes. After 45 minutes, metal targets will be used and the choice of shooting lanes will be free, until the end of the practice period. The organizer should also provide some paper targets during the free period, if possible.

5.3. ZEROING OF RIFLES

5.3.1. Timings and Targets

Prior to the start of a competition, competitors must be given the opportunity to zero their rifles on the range for a period of 45 minutes, which must begin one hour before and end no later than 10 minutes before the first start. For the Pursuit competitions and Mass Start competitions, a shorter time may be used but it must be at least 30 minutes, and without paper target change. When 2 heats for the Mass Start competition are held close together in time, the zeroing for both will be done at the same time.

5.3.2. Rifle zeroing may take place only on the range and only paper targets will be used for zeroing. If the paper targets have to be changed during zeroing, the time required for the change will not be deducted from the time allocated for zeroing.

5.3.3. Allocation of Zeroing Lanes

For Individual, Sprint and Team competitions, if possible, each team must be allocated one zeroing lane on the range. The allocation of lanes will be determined by random draw conducted under supervision of the TD. For Relay competitions, the team zeroing lane is the same as the start number. For the Pursuit and Mass Start competitions, the team zeroing lane shall be the lowest start number of that team, but if a nation has more than 5 competitors starting, it shall be allocated 2 adjoining zeroing lanes.

5.3.4. Placement of Paper Targets for Zeroing

Paper targets for zeroing must be placed at the same level and the same distance from the firing point as the competition targets.

5.4. WARM-UP ON THE COURSE

5.4.1. General

Except at OWG and WCH, the parts of the competition trails directed by the TD may be used for warming-up before and during the competition. The trails may be used only by those competitors who will start in that particular competition and only in the competition ski direction. Competitors who use the competition course for warm-up must not impede other competitors. The Competition Jury may restrict the foregoing.

5.4.2. Other Use of Trails

Team support staff and competitors who are not entered to start in the competition may ski on the course up to five minutes before the first start. After this time, they may not ski on the competition trails but may walk along the side of the trails.
When skiing on the trails the non entered competitors and team staff members must wear training bibs or course armbands respectively.

5.5. SKI TESTING

It is forbidden to use the competition trails for ski testing. Ski testing must be done in the area assigned for ski testing. In extraordinary circumstances the TD may authorize ski testing on the competition trails. In such a case, electronic measuring devices must be removed from the trails not later than 10 minutes before start.

6. START REGULATIONS

6.1. START TYPES AND INTERVALS

6.1.1. General

There are five types of starts: single start; pursuit; group; mass; and team, and two standard start intervals - 1 minute or 30 seconds. At OWG, WCH, JWCH, BWC, CCH and BCC competitions the following regulations shall apply.

6.1.2. Individual Competitions

For all Individual competitions only single starts will be made normally with 30 second intervals. However, 45 seconds or 1 minute intervals are permitted if it is best for the competition. The TD in consultation with the organizer will decide which start interval is the best for the circumstances. A

sufficient number of targets must be available for the numbers of competitors if the start interval is 30 seconds.

6.1.3. Sprint Competitions

For all Sprint competitions either single starts, normally with 30 second intervals, or group starts will be made. Start intervals of 45 seconds or 1 minute are permitted. The TD in consultation with the organizer will decide which start type or interval is best for the circumstances.

6.1.4. Pursuit Competitions

In all Pursuit competitions, no standard start interval is used. Competitors start at the exact time listed in the start list as their start time, which is the time-behind-winner of the qualifying competition.

6.1.5. Mass Start Competition

Start in the Mass Start competition will be made in one single mass start of all the competitors.

6.1.6. Relay Competitions

Start in Relay competitions will be made in a mass start of the first competitor of each team. Subsequent starts of other team members will be made with a tag by the incoming team member in the Relay hand-over zone.

6.1.7. Team Competitions

For Team competitions, Teams shall start with all Team members together with 1 minute intervals between Teams.

6.2. STARTING POSITIONS AND STARTS

6.2.1. Single Start with Electronic Timing

Competitors shall stand as close to the gate as possible and will pass through the gate at their starting time.

6.2.2. Single Start with Manual Timing

If only manual timing is used, competitors shall stand with both feet completely behind the start line and will cross the line at their starting time.

6.2.3. Pursuit Start

Competitors must arrive in the start area at the time directed by the Competition Jury for placement into the start lanes. They will then be lined up in the start lanes in their start order, alternating between lanes. Each simultaneous start must be in a separate lane. Physical control of each start will be done by an official located at the start line at the end of each lane. The officials will bar the crossing of the start line by holding their arm horizontally across the end of the lane, and quickly lowering the arm at the exact start time for that lane. Competitors will start when they are the next in line and when the arm is dropped.

6.2.4. Team Competition Start

The competitors of a Team shall stand in a row, line or pairs, as directed by the organizer in consultation with the TD, with all feet behind the start line or near the gate. They will cross the line or pass through the gate at their start time. When an electrical start gate is used, one team member shall stand directly behind the gate and the other Team members may not cross the start line before that competitor activates the start gate.

6.2.5. Relay Start

In Relay competitions the first starters will stand in their assigned start tracks with both feet behind the line marking their start row, or behind their track number if no line is marked. They will cross the line when the designated start signal is given. Subsequent members of a Relay team will stand in the hand-over zone, according to their start sequence, and will start when tagged by the incoming team member.

6.2.6. Group Start

In group starts the competitor with the lowest start number of that group shall take track 1, the second lowest number track 2, etc. They shall stand as for the Relay mass start and will start when the designated signal is given. This process is repeated for each group.

6.2.7. Mass Start Competition Start

The Mass Start competition will start the same as the first starters in the Relay.

6.3. START SIGNALS

6.3.1. Single and Team Starts - Electronic Gate

The start command is given by the electric sound of the start clock - a loud beep, and the visual time of the start clock. The starter must not touch the competitor.

6.3.2. Single and Team Starts - Manual Timing

At single starts and starts of Teams without an electronic start gate, the starter shall say "Ready" 10 seconds before the time of start and then count down loudly from 5 seconds before the start, saying "five-four-three-two-one". At the exact start time, he shall give the command "Go". The starter must not touch the competitor.

6.3.3. Pursuit Starts

The start signal for each Pursuit start is the dropped arm of the lane official.

6.3.4. Mass and Group Starts

In the Relay and Mass Start competition, and Sprint competition with group starts, the start signal shall be given by a shot from a start pistol or other type of gun, or with a flag.

Verbal warning signals will be given at 1 minute, 30 seconds and 10 seconds prior to the start.

6.3.5. Start in the Hand-over Zone

In Relay competitions the Relay hand-over must take place within the hand-over zone in such a way that the arriving competitor touches the body (including torso, arms, legs, hands, feet and head) or the rifle of the outgoing competitor with his hand.

6.4. TIME OF START, EARLY START, LATE START AND FALSE START

6.4.1. Electronic Start Time

In single or Team starts, the electronically recorded time of activating the gate shall be the start time if the competitors activate the gate within 3 seconds before or 3 seconds after the start list time. If a competitor or Team starts more than 3 seconds before the scheduled time, it is an early start. If a competitor or a Team starts more than 3 seconds later than the scheduled start time, it is a late start and the time will begin from the scheduled time of start.

6.4.2. Manual Start Time

If only manual timing is used and the start is single or in Teams, the time of start for individual competitors or Teams is the time stated in the start list. If a competitor or Team starts before the start signal, it is an early start. If the competitor or the Team starts too late, it is a late start.

6.4.2.1. Pursuit Competition

The time of start for each competitor is the time listed in the start list. Early starts shall not be permitted to happen. If a late start occurs, the late competitor must be directed through the spare passage, and the official at that point will record the time that the competitor crosses the start line. If the competitor was late by his own or team's fault, his competition time will be calculated from his official start time in the start list. If the cause of the delay was force majeure or incorrect or accidental actions by someone outside his team, his competition time and placement in the Pursuit will be calculated from the time recorded by the official.

6.4.3. Relay and Mass Start Competitions and Sprint Competitions with Group starts

The moment of start is at the time of the start signal.

6.4.4. Hand-over Zone Start Time

The start time for the Relay team member taking over shall be the moment when the incoming team member enters the hand-over zone by crossing the timing line at the beginning of the zone.

6.4.5. Early Start - Single and Teams

If an early start occurs in a single or Team competition or in the hand-over zone, the starter's assistant must stop the competitor or Team as quickly as possible after the start line or the hand-over zone and send him or them back. The competitor or Team must return to behind the start line or into the hand-over zone in Relay competitions, and start again.

If possible, except in a Relay, the competitor or team will be restarted at their correct start time through the gate or over the start line in manual. If the correct start time has expired, the time of start reverts to the listed start time. Time thus lost will count against the competitor or the Team.

The foregoing does not apply to Pursuit competitions.

6.4.6. False Start - Mass and Group and Hand-over

If there is a false start during a mass or group start, the assigned IR and officials will stop the competitors at the end of the set parallel tracks. After a false start, there must be a new start.

If the Relay hand-over occurs before or after (outside) the hand-over zone, it is a false start and the procedure must be repeated within the zone. A competitor or Team will be considered as having not started if they have made an early start and do not return to start again, correctly.

6.4.7. Late Start

If competitors or teams are late at the start, they must start through the start gate at the first possible opportunity as directed by the starter, without obstructing other competitors.

- 6.4.7.1. If the competitor or team was late due to their own fault, their start time will be the one on the start list. If the late start was due to force majeure, the Competition Jury will decide their start time.

6.5. START NUMBERS

6.5.1. General

At OWG, WCH, JWCH, BWC, CCH and BCC competitions, all competitors must wear a bib which has their start number on the front, back, and both sides. Competitors must also wear their start number on both thighs. Competitors are responsible to ensure that their start numbers remain attached to the required positions during a competition. The start number, and sequence color, worn by a competitor must be the number and color assigned for that competitor for that competition by the competition start list.

6.5.1.1. Numbering

At OWG, WCH, JWCH, BWC and CCH competitions, the set of start numbers for Men, Women, Junior Men and Junior Women for each start must begin with the number 1 and must continue in numerical sequence to the last number.

6.5.1.2. Color

The color of the start numbers must clearly contrast against the base color of the cloth.

6.5.1.3. Sizes of Start Numbers

The sizes which must be used for start numbers in IBU competitions are detailed in the Material Catalogue.

6.5.2. Start Number Colors by Competitions

6.5.2.1. Individual, Sprint, Pursuit, Mass Start Competitions

The start numbers of all competitors shall be the same color.

6.5.2.2. Relay Competitions

The start number colors within the team shall be red for the starting member, green for the second, yellow for the third and blue for the fourth.

6.5.2.3. Team Competitions

The first two shooters shall wear the red and green start numbers, one color each. The second shooters shall wear the yellow and the blue, one color each.

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

Regardless of temperature, wind chill must be considered before starting and during the competition. In the case of a high wind chill factor, the Competition Jury, in consultation with a member of the IBU Medical Committee or the Competition Physician, will decide whether to start or continue the competition. Changing of the course to be skied may also be done to avoid windy areas.

7. SKIING REGULATIONS

7.1. GENERAL

7.1.1. General Skiing Rules

Competitors must ski the entire distance of the stipulated competition course in the correct sequence and direction on skis, carrying their rifle and at least the required number of rounds, and following the marked course precisely. They may use no other form of propulsion than skis, poles and their own muscular force. All skiing techniques are permitted.

7.1.1.1. Team Competition

In Team competitions the members of a Team must ski the entire course in a closed formation. They must cross both the designated line at the entrance to the range and the finish line with no more than 15 seconds time separation between the first and last member. After entering the range, the two non-shooting members must ski through the range without stopping and ski to the team waiting area to occupy a waiting enclosure. The two non-shooting members may not cross outside the boundaries of the enclosure with their feet until both shooting members have completely passed the enclosure.

7.1.1.2. Accident Reporting

If a competitor observes that another competitor has had an accident, he must report it to the next check point.

7.1.1.3. Did Not Finish

If a competitor withdraws from the competition before the finish, he must inform the first official he meets.

7.1.2. Carrying the Rifle

The rifle must be carried on the back, with the barrel pointing up. If the rifle is so damaged during the competition that it can not be carried on the back, it must be carried in hand to the shooting range and then must be immediately exchanged for the team reserve rifle.

7.1.3. Wrong Trail

If a competitor takes the wrong trail, he must return back to the point where he made the wrong turn, along the part of the trail he skied in error. In order to do so, the competitor may have to ski against the correct ski direction and is totally responsible for ensuring that he does not obstruct or endanger other competitors. There is no penalty for having committed the error as long as no time advantage has been gained and there has been no interference with other competitors.

7.1.4. Passing and Giving Way

A competitor who is in position to pass another competitor, and wishes to pass, will yell "Track". A competitor who is about to be overtaken must clear the track or trail in front of the passing competitor at the first yell of "Track", even if the trail is wide enough. However, this obligation does not apply to the last 100 m before the finish line and the last 100 m before the hand-over zone.

7.1.4.1. Teams Passing

This article shall also apply to teams overtaking each other in Team competitions, as appropriate. A team skiing as a closed formation may be overtaken by another team only in a closed formation.

7.1.5. Skiing Penalty Loops

In all competitions in which the shot-penalty is the 150 m penalty loop, the competitors must ski the loop once for every missed target immediately after the shooting bout.

7.1.5.1. Team Competition Penalty Loops

In Team competitions, both the shooting members must ski the penalty loop the number of times of the total of both their combined misses, immediately after their shooting bout.

7.1.5.2. Responsibility

Competitors and Teams themselves are responsible for skiing the required number of penalty loops immediately after the shooting bout. It is not permitted to complete penalty loops at a later time. In the Team competition, if one or both shooting members omit to do his or their penalty loops, the total number of their combined shot-penalties will be used to calculate the time penalty that will be imposed.

7.1.5.3. Penalty Loop Error

If competitors or the shooting members of a Team, due to a mistake by the organizer or a target malfunction, ski too many penalty loops, the Competition Jury shall decide on an appropriate time allowance.

The organizer shall ensure that, in each competition in which the penalty loop is used, the average penalty loop ski time is recorded, based on at least five competitors.

7.1.6. Skating at Relay, Mass and Group Starts

The use of the skating technique (one or both legs sideways) is prohibited in the tracked portion after the start line in Relay, mass or group starts.

7.2. OBSTRUCTION

It is strictly forbidden to impede other competitors at any time during the competition .

7.3. EXCHANGING EQUIPMENT, REPAIRS, ASSISTANCE

7.3.1. Exchange of Skis and Poles

A competitor may exchange one of his skis, but only if it is broken or the binding is damaged. Broken poles and straps may be exchanged repeatedly. The replacement skis and poles must be in conformity with the IBU Material Catalogue rules.

7.3.1.1. Exchange of Skis within a Team

In a Team competition, the members of the Team may exchange skis among themselves.

7.3.2. Glide Performance and Equipment Repairs

The competitors may not change the glide performance of their skis by the application of any substances during a competition. They may repair their equipment during a competition, provided they receive no assistance from any person.

7.3.3. Rifle Repairs and Ammunition

Assistance to repair a rifle is only permitted on the shooting range, by the Competition Armourer or a firing point official. Competitors are permitted to receive ammunition on the course.

7.3.4. Refreshments

Competitors may consume refreshments during the competition. The refreshments may be carried by the competitors or be given to them.

7.3.5. Other Assistance

Competitors are not permitted to receive any assistance from any person, other than as stated in these Rules.

8. SHOOTING REGULATIONS

8.1. GENERAL

8.1.1. Shooting Rules

All shooting during training and competition takes place at the shooting range. In a competition competitors shall shoot after having completed each of the required sections of the course for the competition, except the last which ends at the finish or the Relay hand-over. The specifications detailed in the following Table 2 and its notes shall apply for shooting at all IBU competitions.

8.1.1.1. TABLE 2 - SHOOTING SPECIFICATIONS BY COMPETITIONS

1	2	3	4	5
Class of Competitor	Type of Competition	Shooting Bouts and Positions	Number of Shots per Bout	Shot-Penalty
MEN	20 KM INDIVIDUAL	P, S, P, S	5	1 MINUTE
	10 KM SPRINT	P, S	5	150 M PENALTY LOOP
	12.5 KM PURSUIT, 15 KM MASS START	P, P, S, S	5	150 M PENALTY LOOP
	4 X 7.5 KM RELAY	EACH MEMBER - P, S	5 + 3 SPARES	150 M PENALTY LOOP
	10 KM TEAM	FIRST 2 SHOOTERS - P SECOND 2 SHOOTERS - S	5 PER MEMBER 5 PER MEMBER	150 M PENALTY LOOP 150 M PENALTY LOOP
WOMEN	15 KM INDIVIDUAL	P, S, P, S	5	1 MINUTE
	7.5 KM SPRINT	P, S	5	150 M PENALTY LOOP
	10 KM PURSUIT, 12.5 KM MASS START	P, P, S, S	5	150 M PENALTY LOOP
	4 X 7.5 KM RELAY	EACH MEMBER - P, S	5 + 3 SPARES	150 M PENALTY LOOP
	7.5 KM TEAM	FIRST 2 SHOOTERS - P SECOND 2 SHOOTERS - S	5 PER MEMBER 5 PER MEMBER	150 PENALTY LOOP 150 M PENALTY LOOP
JUNIOR MEN	15 KM INDIVIDUAL	P, S, P, S	5	1 MINUTE
	10 KM SPRINT	P, S	5	150 M PENALTY LOOP
	12.5 KM PURSUIT / MASS START	P, P, S, S	5	150 M PENALTY LOOP
	4 X 7.5 KM RELAY	EACH MEMBER - P, S	5 + 3 SPARES	150 M PENALTY LOOP
	10 KM TEAM	FIRST 2 SHOOTERS - P SECOND 2 SHOOTERS - S	5 PER MEMBER 5 PER MEMBER	150 M PENALTY LOOP 150 M PENALTY LOOP
JUNIOR WOMEN	12.5 KM INDIVIDUAL	P, S, P, S	5	1 MINUTE
	7.5 KM SPRINT	P, S	5	150 M PENALTY LOOP
	10 KM PURSUIT / MASS START	P, P, S, S	5	150 M PENALTY LOOP
	3 X 7.5 KM RELAY	EACH MEMBER - P, S	5 + 3 SPARES	150 M PENALTY LOOP
	7.5 KM TEAM	FIRST 2 SHOOTERS - P SECOND 2 SHOOTERS - S	5 PER MEMBER 5 PER MEMBER	150 M PENALTY LOOP 150 M PENALTY LOOP

Notes to Table 2

Column 1:	Class of competitor according to these Rules.
Column 2:	Type of competition according to these Rules.
Column 3:	The number of shooting bouts the competitor must do and the shooting position to be used in the bout. P = Prone, S = Standing.
Column 4:	The number of rounds each competitor must fire in each bout of shooting.
Column 5:	The automatic shot-penalty, 1 minute of added time or a 150 m penalty loop, imposed on a competitor for each target left standing after all rounds for the bout have been fired.

8.2. SPECIFIC RULES FOR TYPES OF COMPETITIONS

8.2.1. Selection of Shooting Lanes

In Individual and Sprint competitions, shooting lanes may be freely chosen by the competitors. In the Pursuit, Mass Start and Sprint with group start competitions, the competitors must go sequentially in the shooting lanes 1 to 27 (or higher if there are more targets), taking the lowest available number, and then for the Pursuit and Mass Start competition starting again at number 1. In Relay competitions, the shooting lane designated by the team's start number must be used. For Team competitions, the choice of shooting lanes is free but the two shooters must shoot from adjoining lanes.

8.2.2. Relay Competitions - Spare Rounds

In the Relay competition, each competitor must fire the first 5 rounds and if targets remain standing he must use the 3 spare rounds until all 5 targets are hit or until all 8 rounds are fired. If the spare rounds are needed after having fired the first 5 rounds, all 3 of them must be placed in the provided cup or on the shooting ramp before using any of them. The spare rounds must be loaded singly, by hand. It is also permitted to place the spare rounds in the cup or on the ramp prior to commencing shooting.

8.2.2.1. Spare Rounds not Required

If the spare rounds are not required, they do not have to be placed in the cup or on the ramp at all.

8.2.3. Team Competitions

In Team competitions, all four members of the Team must pass the marking at the left edge of the range with no more than 15 seconds time between the first and last. Two members shall shoot together from adjoining lanes. Neither member may fire a shot until the other shooting member has reached the adjoining lane, inside the lane marking lines. For the first bout - prone - the red and green start numbers will shoot together and for the second bout - standing - the yellow and blue start numbers will shoot together.

8.2.3.1. Penalty Loop

For missed targets, penalty loops must be skied. If there are no shot-penalties, the two shooting members ski directly to the waiting area and link-up with the other two members.

8.2.3.2. Team Waiting Area - Non-shooting Members

The two members who will not shoot must pass through the range without stopping and occupy a waiting enclosure in the waiting area after the penalty loop.

8.3. SHOOTING POSITIONS

8.3.1. Prone Position

In the prone position the competitors must comply with the following. The rifle may only be in touch with hands, shoulder and cheek. The lower side of the wrist of the arm supporting the rifle must be distinctly raised from the ground (snow surface). The other arm may touch the ground for a maximum length of 10 cm from the elbow.

8.3.2. Standing Position

In the standing position the competitors must comply with the following. They must stand without any support. Only hands, shoulder, cheek and the chest next to the shoulder may be in contact with the rifle. The arm supporting the rifle may be held against the chest or put onto the hip.

8.3.2.1. No Removal of Skis

It is prohibited to remove one or both skis while shooting, including training and zeroing, or to place any kind of objects under the skis.

8.3.3. Position in Shooting Lane

The competitor must ensure that no part of his body or equipment protrudes over the 1.5 m red lines marking the shooting lane, or the extension of those boundaries, while shooting.

8.3.4. Enforcement

If a competitor is warned by a Range Official that his shooting position or his position in the shooting lane is not according to the rules, the competitor must immediately make the correction.

8.4. SHOOTING AIDS

8.4.1. Use of Shooting Sling

The use of a shooting sling is permitted in both the prone and standing positions.

8.4.2. Use of Magazine

The five rounds required in each bout of shooting in the Individual, Sprint, Pursuit, Mass Start and Team competitions and the first five rounds in Relay competitions may be loaded with the use of a magazine. If rounds are lost from the magazine or fail to fire, a new magazine may not be used for loading. Such rounds must be loaded individually. If a magazine is lost, it may be replaced with another magazine.

8.5. SAFETY REGULATIONS

8.5.1. General

Shooting is permitted only on the shooting range, during officially authorized timings. It is forbidden to make movements with a rifle which might endanger persons, or which may be perceived by others as dangerous. When the range is open for shooting, no one is permitted to be forward of the firing line.

8.5.2. Loading and Unloading

The rifle may be loaded and unloaded only with the barrel pointing in the direction of the targets. To insert a magazine containing bullets into the rifle is part of the loading procedure. When moving from one firing point to another, the competitor must first unload his rifle and place the rifle on his back in the normal carrying position.

8.5.2.1. Safety Check on the Range After Shooting

After each shooting bout the rifle must be unloaded - that is - no round may be left in the chamber or in the inserted magazine. However, it is permitted to leave the cartridge case in the chamber and the empty magazine in the rifle after the last shot.

In training and zeroing, the competitor must perform a safety check on the shooting range after his last shooting by opening the bolt and removing the inserted magazine, with the barrel toward the target.

8.5.3. Aimed Shots

All shots must be aimed and fired only at the targets (paper or competition, as applicable).

8.5.4. Removal of Rifle on the Range

A competitor may not remove a strap of his rifle carrying harness from his shoulder before he has reached the firing lane from which he will shoot. He must cross the lane marking line with both feet and place both ski poles horizontally on the ground prior to removing his rifle from the carrying position.

8.5.5. Safety at the Finish

At all IBU competitions there must be one or more officials in the area immediately after the finish line who will open the rifle action of every competitor as soon as they have stopped their forward motion after having crossed the finish line. If this safety check is not done, the competitor must do it himself. At the same time, the official will inspect the cartridge case ejected from the chamber.

8.6. MISFIRES, LOST ROUNDS AND DAMAGED RIFLES

8.6.1. Misfires and Lost Rounds

Misfired or lost rounds may be replaced by a competitor if he is carrying spare rounds. If he is not carrying spare rounds, replacement rounds may be obtained by the competitor from a Range Official by raising a hand and saying "Bullets" and the name of his nation loudly. The Range Official who responds will get the spare rounds from the team's reserve rifle or from the team's support staff behind the range and deliver them to the competitor.

8.6.2. Damaged Rifles

If a rifle needs to be repaired, the competitor may do the repairs or may accept assistance, but only from the Competition Armourer or a Range Official. If the rifle cannot be made functional, it may be exchanged for the team's reserve rifle.

8.6.2.1. Reserve Rifle

A rifle which has been damaged during the competition or malfunctions for technical reasons to such an extent that it cannot be used to continue the competition may be exchanged for a team reserve rifle which has been inspected and marked at the equipment check and deposited in the designated reserve rifle rack on the range before the competition by the team. The competitor must then continue the competition with the spare rifle.

8.6.2.2. Rifle Exchange Procedure

If the rifle has been damaged or a magazine lost on the course, the competitor himself may ski to the team reserve rifle in the rack on the range, prior to going to the shooting lane, and exchange his rifle or replace his magazine, and then continue to his shooting lane.

During shooting the competitor shall indicate that his rifle needs to be exchanged by raising his hand. When a Range Official responds, the competitor will point to his rifle and say "Rifle" and the name of his nation loudly. The Range Official will obtain the team's spare rifle from the designated rifle rack and bring it to the competitor.

8.6.3. No Time Adjustment

There shall be no time adjustment for repairing or exchanging a rifle or obtaining a spare magazine or rounds.

8.6.4. Response by Range Officials

All Range Officials must be alert to observe a raised hand by a competitor for spare rounds or rifle exchange. The Range Officials must react with a sense of urgency and move quickly to minimize the time required to bring the rounds or to exchange the rifle.

8.7. TARGET ERRORS AND MALFUNCTIONS

8.7.1. Wrongly Set Target

If a competitor is confronted with a wrong target, standing for the prone position or the reverse, the incorrect target shall be set to the correct position immediately. The competitor will recommence shooting from the beginning.

8.7.2. Target Malfunction

If a target fails to function, the competitor must be directed to another target.

8.7.3. Cross-firing and Target Hit by Another Competitor

If the target on which a competitor is shooting is fired on by another shooter, the incorrect shooter must be stopped immediately. If no target plates have fallen, the correct competitor may continue shooting. If a target plate has been hit, the target must be reset immediately and the competitor then continues shooting.

8.7.3.1. Before such a target is reset, the hits and their positions must be recorded. In such a case in the Sprint, Pursuit, Mass Start, Relay or Team competition, the competitor must be told by the Range Official how many penalty loops must be done.

8.7.3.2. If a competitor cross-fires onto a target not in his shooting lane, and no other competitor is shooting on that target, he shall be allowed to continue without disturbance. The competitor's hits will be only those which are on the correct target.

8.7.4. Time Adjustments and Responsibility

In those cases where a competitor loses time due to a target error which is not his fault or a target malfunction, the Competition Jury shall make an appropriate time adjustment.

8.7.4.1. Own Error

If a competitor makes an error such as cross-firing or selecting a target which has been used and not reset, he is responsible and no time adjustment will be made.

8.7.5. Scoring of Shooting

For all shooting in competitions, a system of scoring the shooting must be put in place by the organizer. Each shot that is fired in a competition must be observed by three independent persons or methods. For the OWG, WCH and BWC competitions, the system shall consist of the electronic target scoring device and two separate observations by Range Officials.

9. THE FINISH, COMPETITION TIME AND RESULTS

9.1. THE FINISH

9.1.1. Moment of Finish

Finish is the moment when a competitor's or Team's competition time ends. When electronic timing is used, the finish occurs when the beam of the electronic sensor at the finish line is broken by the competitor. When manual timing is used, the finish occurs when the competitor crosses the finish line with one or both feet. In Team competitions the timing is taken from the last member to finish.

9.2 THE COMPETITION TIME

The competition time is the period of elapsed time during the competition on which the placing of a competitor or team in the results of the competition are based. The time always includes any penalties or adjustments imposed or awarded by the Competition Jury.

9.2.1. Individual Competitions

In all Individual competitions, the competitor's time is the elapsed time between start and finish plus any shot-penalty minutes imposed.

9.2.2. Sprint, Pursuit, Mass Start and Team Competitions

In all Sprint, Pursuit, Mass Start and Team competitions the competitor's or Team's time is the elapsed time between start and finish. In the Pursuit competition and the Mass Start competition, the first competitor to cross the finish line, subject to penalties, shall be declared the winner. This also applies to the rankings of subsequent finishers.

9.2.3 At OWG, WCH and BWC, in Pursuit and Mass Start competitions if the leading competitor laps a competitor, the overtaken competitor must withdraw from the competition immediately.

9.2.4. Relay Competitions

In all Relay competitions the competition time of a team member is the elapsed time from the start, or hand-over, to the hand-over or the finish. The total time of a Relay team is the time elapsed between the start of the first member to the finish of the last member. The time of the incoming member stops when he crosses the timing line into the hand-over zone and the time of the outgoing member begins at the same moment.

9.2.4.1. The placings of Relay teams in the results shall be decided by the order of finish of their last competitors, except when the Competition Jury has imposed time penalties or made time adjustments.

At OWG, WCH and BWC after the fifth Relay team has crossed the finish line, all other teams will be stopped at the entrance line to the shooting range and shall be ranked in the sequence in which they

reached the range entrance. Timings and shooting results for the stopped teams will be included in the results up to the last hand-over. Teams which are already on the range when the fifth team crosses the finish line will be allowed to shoot and to finish the competition as normal.

During the competition, if the leading competitor laps the last competitor the overtaken competitor must withdraw from the competition immediately. Lapped teams shall be shown as DNF in the results.

9.2.5. Equal Time - Tie

If two or more competitors in an Individual, Sprint, or Teams in a Team competition, have the same competition time, they shall be placed in the results with equal (tie) ranking.

There shall be no ties in Pursuit, Mass Start and Relay competitions.

9.2.6. Photo-finish

At OWG, WCH, JWCH and BWC in Pursuit competitions, Mass Start competitions and Relay competitions, a photo-finish camera must be installed at the finish line to record the finish. The camera must be placed exactly in line with the finish line and in such a position that the entire finish line is seen by the camera. If the photo-finish record is required to decide the order of finish, the order in the record shall determine the placings. The decision shall be based on the first part of the first foot crossing the finish line. Photo-finish is not mandatory at CCH or BCC competitions but may be used.

9.2.6.1. Finish Video Camera

At all IBU events a video camera must be installed at the finish in such a way that it will record the start numbers of competitors as they cross the finish line.

9.2.7. Intermediate Times

At OWG, WCH, JWCH and BWC competitions, timings after each bout of shooting must be available to the electronic information board, the media and teams. An intermediate timing line will be set after the penalty loop and the timing of each competitor shall be recorded at the line after each bout of shooting.

9.3. TIMING SYSTEMS

9.3.1. Requirements

Competition time must be measured electronically, backed by manual timing. Manual timing is used only if the electronic system fails during the competition. Specifications of timing equipments are given in Annex A.

9.3.2. Units of Measure

Electronically and manually measured competition times must be registered to 1/10 of a second (0.1).

9.4. THE COMPETITION RESULTS

9.4.1. General

Results are the record of the performance of the competitors or teams in a competition. The organizer is responsible for producing and distributing the results on paper. At OWG, WCH, JWCH and BWC competitions, English must be used in the results, however, more than one language may be used in the same results. Interim and Final Results must include the following information.

- a. Name and location of the event;
- b. Type, time and date of the competition;
- c. Course and weather data;
- d. Names of the Competition Jury members;
- e. Signature of the TD;
- f. Number of entered competitors and total ranked;
- g. Number of did not start and did not finish;
- h. Notes about imposed penalties;
- i. Columns for:
 - placings, in ranking order from first to last;

- start numbers;
- IBU ID numbers of competitors;
- last and first names of competitors;
- nation or team;
- shot-penalties by bout;
- ski times to 1/10 seconds (0.1);
- total time, and team time (in Relay and Team);
- time behind;
- World Cup points (when appropriate);
- Nations Cup points (when appropriate).

For the Pursuit Competition the only times shown will be actual clock time of the start for the winner followed by the time behind for the remainder.

9.4.1.1. Ties

If there is a tied placing (equal competition time), the tied competitors shall be given equal ranking in the results, however, there shall be no next placing in the results.

9.4.2. Types of Results

There are three types of results: Intermediate, Interim and Final.

9.4.2.1. Intermediate

Intermediate Results reflect the competition situation during the competition and are for information only. They will be displayed on the score board, announced by the public announcer and will be available through the electronic information system.

9.4.2.2. Interim Results

Interim Results is the first official record of the competition produced by the organizer after the last finish. Interim Results are subject to protest and must be published and posted at the finish area and competition office as soon as possible after the finish of the last competitor. The time of posting of the Interim Results must be marked on the Interim Results and must be signed by the TD.

9.4.2.3. Final Results

The Final Results is the final record of the competition and must be published immediately after the deadline for protests has passed, or as soon as the Competition Jury has made its decisions on protests which were submitted.

9.4.3. Results Booklet

The Final Results and other important information of all the competitions for OWG, WCH, JWCH, BWC and CCH must be made into a booklet. The booklet must contain:

- a. the event program;
- b. participant list - nations, competitors, trainers;
- c. Decisions of the Competition Jury and Jury of Appeal;
- d. all Final Results, with applicable points lists and title page

All results pages of the booklet must be on white paper only.

9.4.4. Distribution of Booklets and Results

At WCH, JWCH, BWC, CCH and BCC events, two copies of the Results Booklet must be distributed to all nations which have participated in the event. If this cannot be done before their departure, the booklets must be sent by mail as soon as they are ready. A copy of the Results Booklet must be sent also to each of the following: SG of IBU (4); VP Information; VP Sport, and to the offices of the participating nations. In addition, the Results Booklet produced at the BWC Final must be distributed to all nations which have participated in any BWC event during the season.

Distribution of results and minutes after each competition to each participating nation is as follows:

- a. One copy each per two athletes plus one for team staff;
- b. one copy of minutes of each team captains meeting for each class of competitor;

c. when available, one competition and shooting analysis result to each team.

10. PROTESTS

10.1. GENERAL

Protests must be submitted in writing to the Competition Secretary, for the Competition Jury, and must be accompanied by a fee of DEM 100, or host nation equivalent. If the protest is upheld, the money shall be paid back. If the protest is rejected, the money will go to the IBU.

10.2. PROTEST TYPES AND CONDITIONS

10.2.1. Eligibility Protests

Protests concerning the eligibility of a competitor may be submitted at any time up to the end of the protest time for the competition in question.

10.2.2. Protests During and After Competitions

Protests concerning violation of rules by competitors and team staffs, mistakes made by officials, competition conditions and the Interim Results must be submitted in the time period between the start of the competition to 15 minutes after the posting of the Interim Results. A clear announcement must be made by the organizer immediately after the posting of the Interim Results to inform everyone that they have been posted.

10.2.3. Repetition or Annulment

If the examination of a protest reveals circumstances which are so serious that they make the sporting value of the competition doubtful, or if the Competition Jury from its own observation comes to the same conclusion, the Competition Jury may decide to repeat the competition or to annul the competition without repetition.

11. PENALTIES

For penalties, refer to the IBU Disciplinary Rules.

12. WORLD CHAMPIONSHIPS - EVENT RULES

12.1. GENERAL REGULATIONS

12.1.1. Jurisdiction and Terms

The WCH and JWCH are IBU events and shall be held under its control for Men, Women, Junior Men and Junior Women. In this section WCH also applies to JWCH unless a specific difference is indicated.

12.1.2. When Held

WCH shall be held for Men and Women together annually during dates approved by the IBU EB, but shall not be held during years of the OWG. JWCH for Junior Men and Junior Women together shall be held annually in the week before or after the WCH, if possible. If any IBU authorized competition is not in the program of the OWG, a WCH competition shall be held for it in years of the OWG (except the Team Competition).

12.2. BIDS TO HOST AND APPOINTMENT OF ORGANIZERS

12.2.1. General

The task of organizing the WCH is entrusted to a member federation of IBU, for the awarded location, by the IBU Congress at least four years and not more than five years in advance.

12.2.2. Application to Host

The bid to host a WCH must be submitted by a NF wishing to host, to the IBU SG in writing, and must be received not later than 90 days before the applicable IBU Congress. The site for which the bid is made must have been licensed for WCH by the IBU. The application must be submitted using the official IBU application form and must be signed by the NF President or SG.

12.2.3. The IBU Event Hosting Contract

Immediately after the hosting of a WCH has been awarded, the IBU, the NF and an authorized representative of the organizer must undersign the IBU Event Hosting Contract. The signing will signify that the IBU, the NF and the organizer accept and will fulfill, in the required time, the tasks, measures and duties stipulated in the Contract. A copy of the IBU Event Hosting Contract will be given to the NF and to the organizer.

12.3. EVENT SCHEDULE AND PROGRAM

The event schedule and program will be established by the organizer in consultation with the TD. The program must be submitted to the TC for review and must be approved by the IBU EB at latest one year prior to the beginning of the WCH.

12.4. PROGRESS REPORTS

The organizer must report periodically about work progress to the IBU.

12.5. INFORMATION BULLETINS AND INVITATIONS

12.5.1. Preliminary Information

Not later than one year prior to the WCH, the organizer must send a preliminary information bulletin to all IBU member federations. The bulletin must provide all significant information about the WCH which is required by the NFs at that time.

12.5.2. Official Invitation

Not later than 1 September of the year preceding the WCH, the organizer must send the official invitations by registered mail to all IBU NFs.

NFs which require a special invitation for visa purposes must request them from the organizer.

12.5.3. Final Bulletin

Not later than 15 October prior to the WCH, the organizer must circulate a detailed information bulletin to all IBU NFs. The bulletin will provide detailed information in accordance with the Organizers' Guide.

12.6. PARTICIPATION

12.6.1 Quota - WCH

12.6.1.1. Maximum Registration and Entries for Individual and Sprint Competitions

Each member federation in good standing has the right to register a maximum of 8 male and 8 female athletes and to enter 4 male and 4 female athletes.

In addition to the quota, the winners of the Individual and Sprint competitions of the last year's WCH, or OWG, for both Men and Women, will be allowed to be registered and entered. This will not be counted against their nations' quota.

12.6.1.2. Pursuit Competitions

The top 60 competitors from the qualifying competition are entitled to start in the Pursuit competition. In addition to the quota, the winners of the Pursuit competitions of the last year's WCH, or OWG, for both Men and Women will be allowed to be registered and entered. This will not be counted against the quota of 60.

12.6.1.3. Mass Start Competitions

There shall be 2 heats of 25 competitors per heat. Competitors shall be selected as follows:

First Heat:

all medallists from the Individual, Sprint and Pursuit competitions of the WCH and the remainder from top rankings of these three competitions in the WCH, based on the total of the personal Nations Cup points earned by each competitor in those three competitions, as many as required.

Second Heat:

all 25 competitors from these three competitions, beginning immediately after the last competitor selected for the first heat, as many as required.

12.6.1.4. Relay Competitions

The best 25 nations, for Men and Women, based on the previous year's Nations Cup Score, may enter Relay teams.

12.6.1.5. Team Staff

NFs must be allowed to register a total of ten team staff members. If the organizer is able to accept more than ten staff members, the number must be stated in the invitation.

12.6.2. Quota - JWCH

12.6.2.1. Maximum Registration and Entries

Each nation may register a maximum of eight Junior Men and eight Junior Women for the JWCH. Entries for specific competitions at JWCH are as follows:

12.6.2.2. Individual and Sprint Competitions

A maximum of four competitors per nation may be entered for both Junior Men and Junior Women.

12.6.2.3. Pursuit Competitions

The top 50 competitors from the qualifying competitions will be entered, both for Junior Men and Junior Women.

12.6.2.4. Relay Competitions

Based on the previous year's JWCH Relay competition rankings, for both Junior Men and Junior Women, the best nations may enter Relay teams, one each, as permitted by the number of targets available at the event.

12.6.2.5. Team Staff

NFs must be allowed to register ten team staff members. If the organizer is able to accept more than ten staff, the maximum number must be stated in the invitation.

12.7. AWARDS

12.7.1. Official Medals

Competitors placing first, second and third in the Individual, Sprint, Pursuit and the first heat of the Mass Start competitions shall be awarded the IBU medal in gold, silver and bronze, respectively. Each member of the Relay teams placing first, second and third shall be awarded the IBU medal, in gold, silver and bronze, respectively.

12.7.1.1. Award Ceremony

The presentation of the official World Championships medals must include flag raising and national anthems.

12.7.2. Other Prizes

The Organizing Committee and other bodies may present other prizes.

12.8. Leader Bibs

The competitors, both Men and Women, who are the best ranked in the current World Cup Score for the Individual, Sprint, Pursuit and Mass Start competitions, and for the BWC Total Score shall wear during the World Championships a "World Cup Leader" bib instead of a start number.

World Cup Leader Bib Colors

- a. Total Score leaders - yellow;
- b. Individual, Sprint, Pursuit, Mass Start leaders - red.

13. THE OLYMPIC WINTER GAMES - EVENT RULES

13.1. RULES

The IOC has jurisdiction of the OWG, however, these Rules shall apply for the OWG except when otherwise stipulated by IOC regulations.

13.2. SCHEDULE AND PROGRAM

The event schedule and program will be established by the Organizer in consultation with the two TDs. The schedule and program must be submitted to the TC for review and must be approved by the IBU EB.

14. CONTINENTAL CHAMPIONSHIPS AND CONTINENTAL CUP EVENTS - EVENT RULES

14.1. CONTINENTAL CHAMPIONSHIPS

14.1.1 General

The CCH are IBU events that are organized under its jurisdiction jointly for Men, Women, Junior Men and Junior Women. These rules apply to following championships:

- a. Asian Championships (ACH)
- b. European Championships (ECH)
- c. North American Championships (NACH)

The hosting of CCH is awarded by the IBU based on recommendations by the TC. The dates for the events are determined by the continents.

14.1.2. Control

The immediate control is exercised by an IBU TD whose expenses are paid by the organizer.

14.1.3. Competition Types

The following competition types are authorized for CCH: Individual, Sprint, Pursuit, Mass Start and Relay.

14.1.4. Eligibility and Participation

Biathletes of all IBU member NFs are eligible to participate. However, only members of the teams of the host continent NFs are eligible to be Continental Champions. Participation quotas will be set by the responsible continental organizations as required.

14.1.5. Competition Rules

The IBU Event and Competition Rules shall apply to the CCH. Special rules may be prepared and set by the continental organizations. CCH continental rules are detailed in Annex D.

14.1.6. Awards

Official IBU medals will be awarded as follows: first place - gold; second - silver; third - bronze. Additional prizes may be awarded as stipulated by the continental organizations.

14.2. BIATHLON CONTINENTAL CUPS

14.2.1. General

The BCC are IBU events that are organized under its control as joint event series for Men, Women, Junior Men and Junior Women. The CCH rules apply to BCC with the following exceptions.

The following BCC Series are authorized :

- a. Biathlon Asian Cup (BAC)
- b. Biathlon European Cup (BEC)
- c. Biathlon North America Cup (BNAC)

- 14.2.2. Not to be Held Together with BWC
The BCC are separate events and may not be organized at the same venue together with BWC competitions.
- 14.2.3. Hosting Applications and Awarding
Each IBU member NF may apply to organize one or more BCC event a year. Applications for the following competition season must be submitted to the IBU SG by 31 December and will be awarded by the IBU EB based on recommendations of the TC.
- 14.2.4. Competition Rules
The IBU Event and Competition Rules shall apply to the BCC. Special rules may be prepared and set by the continental organizations. BCC continental rules are detailed in Annex E.
- 14.2.5. Juries
Only Competition Juries will be established, under IBU jurisdiction, for BCC events. Continental bodies may establish a Jury of Appeal for events.

15. BIATHLON WORLD CUP - EVENT RULES

15.1. GENERAL REGULATIONS

15.1.1. Jurisdiction

BWC are IBU events and shall be held under its jurisdiction for Men and Women. These Rules shall apply for BWC events.

15.1.2. TD and IR Expenses

The travel, accommodation and meal costs, and daily allowance of the IBU TD and IRs shall be borne by the organizer for the period they are required for the event, in accordance with the current IBU policy.

15.1.3 Best Biathletes - Financial Responsibility and Selection

Each organizer of a BWC event must pay the accommodation and meal expenses for the best male and the best female Biathletes for a maximum of seven full days, according to the numbers of biathletes set by the IBU.

Selection of the best Biathletes for the current competition season, up to the end of December, will be from the top rankings in the previous year's World Cup Total Score. For the part of the season beginning on 1 January, the selection will be from the top rankings of the World Cup Total Score as of the end of December and will continue on that basis to the end of the season.

15.2. BWC ANNUAL SCHEDULING

15.2.1. Number of BWC per Season

Six or more BWC events shall be organized in each competition season. The number of events to be held shall be determined by the IBU EB.

15.2.2. BWC Annual Calendar

BWC events shall be held prior to and after the annual WCH or the OWG. They are to be held in the time-frame set by the IBU EB.

15.3. BIDS TO HOST AND APPOINTMENT OF ORGANIZERS

15.3.1. Authority to Appoint

Organizers of BWC events are appointed by the IBU EB, based on the recommendation by the IBU TC.

15.3.2. Applications to Host BWC Events

Applications for hosting BWC events must be submitted by the applying NFs to the IBU SG before the deadline established by the IBU EB.
Applications must be submitted to the SG using the official IBU application form and must be signed by the President or SG of the NF.

15.3.2.1. A NF may apply to organize one or more BWC events during a competition season. Normally a nation may organize one BWC event per season.

15.3.3. The IBU Event Hosting Contract

Immediately after the hosting of a BWC has been awarded, the IBU, NF and an authorized representative of the organizer must sign the IBU Event and Hosting Contract. The signing will signify that the IBU, the NF and the organizer accept and will fulfill, in the required time, the tasks, measures and duties stipulated in the Contract. A copy of the IBU Event Hosting Contract will be given to the NF and to the organizer.

15.4. BWC PROGRAM

The program for a BWC event will be established by the IBU EB in consultation with the NF and the TC.

15.5. INVITATIONS

Invitations to BWC events must be sent by the organizers to all IBU NFs and the IBU office not later than three months before the start of the event.

15.6. PARTICIPATION

15.6.1. Registration and Entry Quotas

Based on the previous year's Nations Cup Score and World Cup Total Score final standings, nations may participate with the following numbers of both (each) Men and Women at BWC events.

15.6.1.1. Maximum Registration and Entries

Individual and Sprint Competitions

Basic quota based on placings in the previous year's Nations Cup score

1 - 20 3 athletes

21 up 2 athletes

Additions and Maximums

Additionally nations may register and enter the previous year's top 50 biathletes from the World Cup Total score placings, with the combination of the basic quota and additions not exceeding the following:

Nations Cup

Placing	Enter	Register
1 - 4	7	8
5 - 8	6	7
9 - 12	5	6
13 up	4	5

Pursuit Competitions

For the Pursuit competition, the top 60 competitors from the qualifying competition are entitled to start.

Mass Start Competitions.

There shall be 2 heats of 25 competitors per heat. Competitors shall be selected as follows:

- a. first heat: all 25 competitors from the top ranking of the current BWC Total Score;
- b. second heat: all 25 competitors beginning immediately after the last competitor selected for the first heat.

If there are one or more athletes from the current BWC Total Score list not present at the event, the athletes next below them on the list shall be selected.

15.6.1.2. Relay Competitions

The best 25 nations, for Men and Women, may enter Relay teams.

15.6.1.3. Team Staff

NFs must be allowed to register a total of ten team staff members. If the organizer is able to accept more team staff members than ten, then the invitation must state the number allowed.

15.6.1.4. Nations Not Registered in Time

NFs that have not communicated their intent to participate to the organizer, by 14 days before the beginning of the event, may participate if the organizer can make it possible, and if it is approved by the TD.

15.7. WORLD CUP LEADER BIBS

15.7.1. General

The competitors, both Men and Women, who are the best ranked in the current World Cup Score for the Individual, Sprint, Pursuit and Mass Start competitions, and for the BWC Total Score shall wear during the competition a "World Cup Leader" bib instead of a start number.

15.7.2. World Cup Leader Bib Colors

- a. Total Score leaders - yellow;
- b. Individual, Sprint, Pursuit, Mass Start leaders - red.

15.7.3. Bib Markings

The bibs shall be completely yellow or red with „World Cup Leader“ and the IBU emblem printed on them. Start numbers shall not be printed on the bibs. Any advertising on the bibs shall be totally under IBU jurisdiction.

15.7.4. Provision of Leader Bibs

The World Cup leader bibs shall be provided by the IBU and will be brought to BWC events as organized by IBU.

15.8. WORLD CUP SCORING SYSTEM

15.8.1. General

A scoring system will be used to reflect the competition performance of competitors, Relay teams and nations throughout each BWC competition season. The highest final scores of the season shall be the winners.

15.8.1.1. Types of Scores

The following types of scores will be used.

- a. World Cup Total Score;
- b. World Cup Individual Score;
- c. World Cup Sprint Score;
- d. World Cup Pursuit Score;
- e. World Cup Mass Start Score;
- f. World Cup Relay Score;
- g. Nations Cup Score.

There is no score for Team competitions.

15.8.2. Awarding of Score Points

There are two kinds of points awarded at BWC and WCH, or OWG, competitions: World Cup points and Nations Cup points. They are awarded as follows.

15.8.2.1. World Cup Individual, Sprint, Pursuit, Mass Start and Relay Score Points

Score points are awarded as follows. At each BWC, WCH or OWG Individual, Sprint, Pursuit, Mass Start and Relay competitions a first place shall give the competitor or Relay team 30 World Cup points, a second place 26 points, a third place 24 points, a fourth place 22 points, a fifth place 21 points, then further decreasing by one point down to the 25th place which gives 1 point.

At Mass Start Competitions with 2 heats, World Cup Points will be given in the first heat to competitors placed from 1 - 20 and in the second heat to competitors placed from 1 - 5 (five to one World Cup points).

Equal placings (tie) in a competition shall give an equal number of points.

15.8.2.2. Nations Cup Score Points

Score points are awarded as follows. At each BWC, WCH or OWG Individual and Sprint competition a first place shall give the competitor 130 Nations Cup Score points, the second 126 points, the third 124 points, the fourth 122 points, the fifth 121 points and then decreasing by one point per place to 1 point.

15.8.3. Criteria

The number of competitions to be counted in each type of competition, the Total Score and in the Nations Cup score will be set annually by the EB and will be published in the International Biathlon Calendar.

15.8.3.1. Total, Individual, Sprint, Pursuit Mass Start and Relay Scores

Scoring will be based on the Individual, Sprint, Pursuit, Mass Start and Relay competitions of the BWC events and the WCH, or OWG, of that season.

15.8.3.2. Nations Cup Score

Scoring shall be based on all of the BWC and WCH, or OWG, Individual and Sprint competitions of that season.

15.8.4. Calculation

15.8.4.1. World Cup Total Score

For all competitors, the World Cup Total Score will be based on the Individual, Sprint, Pursuit and Mass Start competitions. The scores from the set numbers of competitions will be added together and the sum will be the BWC Total Score.

15.8.4.2. World Cup Individual, Sprint, Pursuit and Mass Start score

The BWC score of each of the type of the competitions is calculated the same way by adding together the scores of the set number of competitions for each type.

15.8.4.3. Nations Cup Score

The Nations Cup shall be calculated as follows:

- a. The best three Nations Cup Score points results for each nation in each Individual, and Sprint competition are added together and the sum becomes the Nations Cup Score for that nation for that competition. In subsequent events the cumulative sum becomes the nations intermediate ranking after each event
- b. After the BWC Final, based on numbers set by the IBU EB the best Individual and best Sprint competition Nations Cup scores for each nation are selected from all of the Individual and Sprint competitions of that season and are added together. The sum becomes the nation's total Nations Cup score.

15.8.5. Breaking of Ties in Scores

If there is an equality of points in any score, during or at the end of the season the best placed competitor or nation shall be the one who won more first places, and if there is still a tie, who won the most second places, etc.

15.8.6. World Cup Evaluation

15.8.6.1. Interim Ranking

After each BWC and WCH, or OWG competition the organizer of the event must compile and distribute a World Cup interim ranking list based on the results of that and the preceding competitions.

15.8.6.2. Final Standings

The organizer of the World Cup Final must compile and distribute lists for the final standings of all the World Cup and Nations Cup Scores to all NFs which took part in any BWC event in that season.

15.9. AWARDS

15.9.1. General

World Cup trophies will be awarded at the end of the competition season based on the World Cup scoring final standings.

15.9.2. Award Categories

The World Cup trophies shall be awarded to:

- a. the Man and Woman placed first in the World Cup Total Score;
- b. the Man and Woman placed first in the World Cup Individual Score;
- f. the Man and Woman placed first in the World Cup Sprint Score;
- g. the Man and Woman placed first in the World Cup Pursuit Score;
- h. the Man and Woman placed first in the World Cup Mass Start Score;
- f. the nations placed first in the Men's and Women's World Cup Relay Scores;
- g. the nations placed first in the Mens's and Women's World Cup Nations Score.

15.9.3. Presentation Ceremony

The World Cup trophies shall be presented to the winners by the IBU Representative in a dignified ceremony during the BWC Final.

15.9.4. Right to Retain Trophies

World Cup trophies may be retained as follows:

- a. The World Cup trophies awarded for the World Cup Total, Individual, Sprint, Pursuit and Mass Start Scores shall become the property of the winners.
- b. The World Cup trophies awarded for the World Cup Relay Score shall become the property of a nation.
- c. The Cup for the World Cup Nations Score is a perpetual challenge cup that will be retained by IBU. Miniature cups, for retention by the winning nations, will be awarded every year.

15.9.5. Provision of Trophies

The World Cup trophies shall be provided by and at the cost of the IBU.

15.9.6. World Cup and Nations Cup Certificates

Certificates must be presented to the six best placed competitors and nations in all of the World Cup and Nations Cup categories. The presentation is to be done during the BWC Final at a suitable occasion. The organizer of the BWC Final is responsible for producing the certificates according to instructions by the IBU.

15.9.7. Other Prizes

The Organizing Committee and other bodies may present other prizes.

15.9.8. Prize Money

Prize money is permitted in amounts as directed by the IBU EB from time to time.

ANNEX A

MATERIAL CATALOGUE

TABLE OF CONTENTS

1. GENERAL
 - 1.1. Purpose
 - 1.2. Definition
 - 1.3. General Prohibitions
2. New Materials
 - 2.1. Definition
 - 2.2. Approval process
3. Material Specifications
 - 3.1. Competition Equipment
 - 3.2. Organization Equipment
4. Advertising
 - 4.1 Advertising Rules
 - 4.2 Commercial Markings on Equipment
 - 4.3. Measurement of Advertising Sizes
 - 4.4. Preliminary Examination of Advertising
5. Control Procedures
 - 5.1. General
 - 5.2. Competition Equipment
 - 5.3. Organization Equipment
 - 5.4. Control Instruments, Tools and Materials

TABLE 1 Biathlon Rifle Diagram

TABLE 2 Fore-stock Variations

TABLE 3 Prohibited Fore-stock Variations

TABLE 4 Standard Dimensions for Biathlon Targets

TABLE 5 Example of a Windflag

1. GENERAL
 - 1.1. PURPOSE AND PUBLICATION

The purpose of the IBU Material Catalogue is to regulate all aspects of Biathlon competition related material. It is based on the authority of the IBU Event and Competition Rules and is part of the Rules. The Material Catalogue provides the definitions, current specifications and requirements of all competition related material, the approval process for new materials and the control procedures for enforcing the material regulations. In essence, the Material Catalogue safeguards:

- a. the principle of fair and equal opportunity for all competitors;
- b. the safety and health of all persons associated with Biathlon competitions;
- c. the nature and traditions of the sport of Biathlon.

1.2. TYPES OF MATERIAL

The term material is sub-divided into two major categories: Competition Equipment and Organization Equipment.

1.2.1. Competition Equipment

Competition equipment refers to all items that a competitor wears or carries for a competition and official or unofficial training during an event. Competition equipment includes e.g. skis, poles, bindings, boots, rifle, ammunition and magazines, clothing; and accessory equipment such as gloves, goggles and earmuffs.

1.2.2. Organization Equipment

Organization equipment consists of all the other material that is required to conduct a Biathlon competition or training during an event, that is not worn or carried by the competitor. Examples of organization equipment are: targets, timing equipment, mats, relay cups, wind flags, signage and equipment measuring devices.

1.3. GENERAL PROHIBITIONS

In principle all material is prohibited which:

- a. affects the natural movement of feet and arms during push off action or those that enhance it (such as spring devices or other mechanisms in skis, poles, bindings or boots);
- b. makes use of sources of energy not originating from the competitor such as artificial heating devices, chemical energy suppliers, electrical batteries, mechanical aids, etc.;
- c. affects the external conditions for the competition to the detriment of other competitors, such as changing the track or snow conditions;
- d. increases the risk factor for injury of competitors and other persons who are authorized to be present on the competition facility, when used normally.

2. NEW MATERIALS

2.1. DEFINITION

New material is defined as any competition equipment or organization equipment which has not been approved or rejected by the IBU TC. Any new material must be submitted to the IBU TC Material Sub-Committee for approval before it can be used in an IBU event or competition.

2.2. APPROVAL PROCESS

2.2.1. Procedure

Any new developments in material produced by the industry or the NFs for the following season must be submitted to the IBU no later than 1 May of the year in which the season begins. The submission must be accompanied by appropriate support material such as drawings, descriptions or test results. Prototypes may be submitted as well. New developments which are in accordance with the regulations will be immediately approved by the IBU TC Material Sub-Committee.

2.2.2. Provisional Approval

In rare cases a provisional approval is granted for a year, and a definitive decision is made in the subsequent season.

2.2.3. Standard Products

New designs of competition clothing, bindings, boots, rifle sling, headgear and gloves do not have to be presented by industry and the NFs to the IBU TC Material Sub-Committee, provided that it is clear that the new products meet IBU regulations. If the materials do not meet regulations they can be banned on short notice.

2.2.4. Availability

Any new materials must be accessible to all NFs and competitors in the following season.

3. MATERIAL SPECIFICATIONS

3.1. COMPETITION EQUIPMENT

3.1.1. Competition Skis

Normally, IBU will orient at the FIS regulations pertaining to competition skis: material, length, width, shape, weight, and construction. Those regulations will be published in the IBU International Biathlon Calendar if they differ from what is contained in this Material Catalogue.

3.1.1.1. Ski Length

Minimum length of skis is the height of competitor minus 4 cm; maximum: no limit.

3.1.1.2. Ski Width

The ski waist, measured under the binding, can have a minimum width of 40 mm; maximum: no limit.

3.1.1.3. Ski Tip Section

Minimum width of the ski tip area is 30 mm.

3.1.1.4. Curvature

Measured under the binding:

Minimum curvature from ground must be 20 mm;

Maximum curvature from ground must be 35 mm.

3.1.1.5. Ski Tail Section

When the unweighted ski is placed on a flat surface, the height of the ski tail from the surface must not exceed 3 cm.

3.1.1.6. Weight

The total weight of a pair of skis must be at least 750 grams. There are no restrictions on the distribution of weight.

3.1.1.7. Construction

3.1.1.7.1. Type of Construction
No limitations.

3.1.1.7.2. Shaping

Both skis must have the same type of construction, so that there is no difference between the left and the right ski. There are no restrictions on the types of lamination construction used. There are no limitations on rigidity in any dimension.

3.1.1.7.3. Gliding Surface

The entire length of the running surface can either be smooth or slightly grooved in the longitudinal direction. Except for the guiding grooves, the entire length and width of the running surface must be flat. Engraved or impressed climbing aids such as scales or steps are permitted. Devices that are activated by other than the competitor's own muscular power are not permitted.

3.1.1.7.4. Top Surface
No limitations.

3.1.1.7.5. Edges

The side walls may not be angled as they extend upwards so that the ski base becomes narrower than the upper surface (wedge form not allowed).

3.1.1.8. Stress Properties
No limitations.

3.1.2. Ski Bindings

There are no restrictions on the type of material used or its make.

3.1.3. Competition Ski Boots

There are no restrictions on the type of material used or its make.

3.1.4. Competition Ski Poles

3.1.4.1. Use of the Poles

In the competition, competitors must use two poles of equal length, one in each hand.

3.1.4.2. Specifications

- a. The maximum length of the poles must not be longer than the competitors body height, measured by placing the pole tip on the ski in front of the binding;
- b. The pole must have a fixed length: the shaft must not be telescoping or variable length;
- b. The pole must not have any energy source to improve push, such as springs or other mechanical devices;

- d. There is no upper or lower weight limit for poles;
- e. The poles may be asymmetrical: there can be a distinct right and left hand pole;
- f. The pole must not cause changes of the competition conditions such as changes of track or snow conditions;

- g. The hand grip must be permanently fastened to the shaft. There are no restrictions concerning its geometry, construction or material;
- h. The strap must be connected to the hand grip or the shaft. It can be adjustable both in length and width. There are no restrictions on materials;
- i. There are no limitations on the shape or material of the shaft, or on the mass distribution;
- j. Exchangeable baskets with different geometric features and materials to match different snow characteristics are allowed;
- k. The tip may be connected at any angle to the shaft. One or more tips are allowed. There are no restrictions on materials.

3.1.5. Clothing

The following regulations apply to competitors' apparel:

- a. Advertising on the competition clothing must be in accordance with the current IBU regulations;
- b. The front and sleeves of the racing garment must be made of the same material;
- c. Padding is only allowed on the inside of the racing suit. The total thickness of the padding, cloth and lining of the competition garment may not exceed 6 mm when measured in an unpressed state, except on the back of the suit, where the rifle is carried. On the back, there is no restriction about padding;
- d. No adhesive material, such as textile texture, wax, resin, glue or extra stitching (except for fastening of padding) is allowed on the outside of the clothing;
- e. A special device for preventing the shooting sling from slipping down is allowed at the sleeve of the upper arm.

3.1.6. Rifles

3.1.6.1. General

The rifles may not be of automatic or semi-automatic design. Loading or unloading may be executed only by the competitor's muscle force.

3.1.6.2. Parts of a Biathlon Rifle

A diagram of a Biathlon rifle with names of parts is provided in Table 1.

3.1.6.3. Approved Types of Actions

The types of authorized rifle actions are as follows:

- a. the common bolt system - Anschütz, Sako, IZMASH Bi 1/2 ;
- b. the Winchester system - Krico 360 SII, Ekens, Mestervîpen, Suhl Model 626, Suhl Model 629;
- c. the Excenter system - Finnbiathlon;
- d. the Pinch-lock system - IZMASH Bi 3/4, Anschütz-Fortner, Krico 360 SI.

3.1.6.4. Specifications

Rifles used in competitions must meet the following specifications:

- a. The general shape of the fore-stock must be in conformity with the permitted variations pictured in Table 2;
- b. The distance between the center-line of the barrel and the lower edge of the fore-stock, including magazine and trigger guard, must not exceed 90 mm;
- c. A special hand support which increases the distance between the bottom of the fore-stock and the center-line of the barrel, or affects its shape, is not allowed. Grooves in the fore-stock - including the trigger guard - to accept the fingers, profiled parts, or parts of rough surface may not be deeper than 2 mm. A hand-stop to fasten the sling is allowed, however, the hand-stop may not be used as support for shooting in the standing position;
- d. A cutout notch for insertion of the magazine into the magazine shaft is permitted to a necessary degree, but is not permitted as support when aiming. The fore-stock must not have a lateral protrusion to aid in aiming;
- e. The thickness of the cheek piece, measured from the vertical of the center-line of the barrel, must not exceed 40 mm;
- f. A folding stock is not permitted;
- g. The sight system may not have any optical device and may not have a magnifying effect. It is also prohibited to insert optical lenses into the eye for this purpose;
- h. The caliber of the barrel must be 5.6 mm (.22 in. long rifle);
- i. The trigger resistance must be a minimum of 0.5 kg;
- j. The trigger must be surrounded by a rigid, closed trigger guard;
- k. The rifle may have a sling and must have a carrying harness. The width of the sling and cuff must not exceed 40 mm;
- l. Including all accessories - except magazines and ammunition - the minimum weight of the rifle must not be less than 3.5 kg;
- m. The magazines must not permit the insertion of more than 5 rounds. For the relay competition three spare rounds may be carried in a magazine installed for that purpose or in a special quick release device. However, a spare round may not be carried in the chamber. The magazines may be carried in the fore-stock or the butt. When carried in the fore-stock, the magazine attachment device or the magazine itself may not be used as support during firing;
- n. The advertising attached to the rifle must be in conformity with current IBU regulations;
- o. Rifles must have a control mark area, clear of all other markings, from the trigger point to 15 cm forward on both sides of the fore-stock.

3.1.7. Ammunition

3.1.7.1. Required Characteristics

Only international standard .22 in. (5.6 mm) long rifle rimfire ammunition may be used. The bullets must be made of a uniform substance, lead or a similar soft material such as a lead alloy.

3.1.7.2. Muzzle Velocity

The muzzle velocity must not exceed 380 m/s, measured 1 m after leaving the muzzle.

3.1.7.3. Hit Impulse

The impact of the bullet, fired from a distance of 50 m at a relatively stiff steel plate, must not exceed 0.9 Ns (=0.09 kps) with a maximum impact tolerance of 0.099 Ns.

3.1.7.4. Hit Impulse Tolerance and Testing

The maximum permitted tolerance in hit impulse value of the tested ammunition is 11 %, that is, maximum hit impulse is 1.0 Ns (=0.1 kps). Admissibility of ammunition can be verified by shooting at a test target with variable release impulse. This target must be adjusted in such manner that no release occurs at a hit impulse at 1.0 Ns, but definitely records a hit impulse at 1,1 Ns. Ammunition becomes authorized for use if no release is recorded after 5 shots have been fired from a distance of 10 m. Testing of ammunition must be done with the competitors own rifle or an identical one. Ammunition testing may be ordered by the Competition Jury during an event.

3.2. ORGANIZATION EQUIPMENT

3.2.1. Target Systems

3.2.1.1. Uses of Targets

The numbers and types of targets authorized for use in various competitions are detailed in the IBU Event and Competition Rules. Only targets which are in conformity with this Catalogue and which have been approved by the IBU TC Material Sub-Committee may be used for IBU competitions. Targets must be situated, set up, numbered and maintained as detailed in the IBU Event and Competition Rules.

3.2.1.2. Types of Targets

There are two main types of targets used for Biathlon training and competitions - metal and paper. Only metal targets shall be used for competition and only paper targets shall be used for zeroing of rifles. Both paper and metal targets may be used for training.

Paper targets imitate the competition targets and have five aiming marks.

3.2.1.3. Targets - OWG and WCH

At OWG and WCH competitions only electro-mechanical and electronic target systems, which are in accordance with the current IBU Material Catalogue, shall be used.

3.2.1.4. Targets - JWCH, BWC, CCH and BCC

For JWCH, BWC, CCH and BCC competitions, mechanical, manually operated targets are permitted but electro-mechanical and electronic targets are encouraged. The ropes for manually operated targets should be placed through tubes or pipes under the shooting ramp to the rear of the ramp so that the targets can be operated without interference to shooters.

3.2.1.5. Metal Target Operating Systems

Metal targets are produced in mechanical and electro-mechanical variations. They operate as follows:

a. Mechanical

In a mechanical target the hit of a bullet is indicated by the physical force of the bullet impact knocking down the target and replacing it with a white indicator disc. As well, mechanical targets are manually reset after a shooting bout by pulling a rope to bring the fallen target plates back into position. Changing between standing and prone configurations is done manually with a rope for mechanical targets.

b. Electro-Mechanical and Electronic

In an electro-mechanical or electronic system, the resetting of targets and changing configurations is done remotely with electrically powered servo-motors. Hits in electro-mechanical or electronic systems are normally recorded electronically through a magnetic, motion or impact sensor in the target. Visual hit indication normally occurs with a mechanically or electronically activated indicator disc.

3.2.1.6. Metal Target Description

The target must consist of a white target face plate with 5 target apertures, behind which are 5 independently operating knock down, falling plate or electronic sensor plate scoring targets. The scoring plates must be black. A hit must be indicated by the black target circle being replaced by a white indicator disc.

3.2.1.7. Paper Target Description

Paper targets imitate the competition targets in appearance. The paper background must be white or light gray in color and may not be reflective. The five circular targets must be black.

3.2.1.8. Target Sizes and Aperture Positions

Table 4 details all the required dimensions and the positioning of the target circles for both metal and paper targets. The diameters of the black circles for the aiming and scoring areas are as follows:

	Metal	Paper
Standing - aiming	115 mm	110 mm
- scoring	115 mm	110 mm
Prone - aiming	115 mm	110 mm
- scoring	45 mm	40 mm

3.2.1.9. Functional Requirements of Metal Targets

The target system must meet the following requirements:

- a. Reliable functioning under all types of weather conditions in which competitions are carried out;
- b. The release of the hit register at a standard hit impulse (releasing impulse) which had been determined by the IBU TC Material Sub-Committee, to ensure that the same releasing impulse is functional for all targets used during a competition.

3.2.1.10. Tolerances and Shape Requirements

Size for target openings must be:

Diameter 115 mm, +/- 0.3 mm for standing position;

Diameter 45 mm, +/- 0.3 mm for prone position.

Tolerance according to ISO - Standard 2768, Table 1, center column.

The target apertures used for shooting in the standing and prone positions must be concentric. Permissible tolerance is 1 mm. The aperture rim must be well defined and devoid of deformations.

Target apertures must be lined with a 1 cm wide hard metal ring in order to avoid rapid deformations, or the entire target face plate must consist of an adequately hard material to avoid deformation.

Permitted deviations for the metal target face plate are in accordance with ISO-Standard 2768, Table 1, center column.

3.2.1.11. Deformations

Continuous use of a target system can result in deformations of the flat surface. Such deformations must not deviate more than 2.5 mm from the remaining surface of the target. The depth of the deformation must be measured relative to the edge of the surface of the 115 mm diameter target.

3.2.1.12. Material and Hardness

Metal target must be made of steel with a hardness of at least 280 HB.

3.2.1.13. Release Impulse

The release of the hit impulse should occur when hit by a bisected bullet at a release impulse of at least 0.45 Ns. A release tolerance of +/- 33.33 % is permitted. That means, that all target systems must be adjusted in such a manner that it is independent of where the bullet hits the target.

A release impulse of less than 0.3 Ns will not be recorded as a hit;
A release impulse greater than 0.6 Ns will definitely be recorded.

3.2.1.14. Special Requirements for Electronic Target Systems

In addition to the standard requirements for Biathlon targets, electronic systems must comply with the following:

a. Data Feed Distribution

The system must be able to distribute data to multiple operation points such as timing, data processing and TV (including graphics) production.

b. Interface Hardware

All data flow to other than system internal requirements must be by use of RS-232 interface. No buffering or handshake controls are necessary.

c. Communication Protocol

In order to process and log the data feed with standard PC equipment a simple ASCII coded protocol must be used. The following information must be transmitted:

- competitor arrival at shooting lane (start of shooting)
- assignment of start number to shooting lane, including A to D indicators for Relay and Team competitions
- missed shot(s)

- target hit (including target plate numbers 1 to 5)
- end of shooting bout (important data such as shooting lane, start number, total misses, number of spare rounds used in Relay competitions, and shooting time should be in this feed).

d. Transmission Delay

The maximum delay, from the sensing of a target hit or missed by the sensor system of the targets, to the complete transmission over the data output line must not exceed 200 ms. This value must also be maintained during heavy shooting on the range, such as in the Pursuit and Mass Start competitions.

e. Backup Systems

To guarantee reliable data feed during major international events, the target system must have two completely separate processing systems, and therefore, must provide two data feeds to the main and backup timing, data processing and TV graphics systems.

3.2.1.15. Approval of Targets

All target systems that are to be used during IBU competitions require approval by the IBU TC Material Sub-Committee. Authorization of a target system will be granted to a manufacturer who submits a prototype to IBU which is found acceptable according to these regulations. Approval can be withdrawn if technical flaws occur, or when a particular type of target system becomes technically outdated.

3.2.1.16. Currently Authorized Targets

At present, the following target systems are approved for use:

- a. Mechanical Systems
Kurvinen - FIN
Devon Model BT-500 - USA (up to and including BWC)
- b. Electronic/electro-mechanical Systems
Kurvinen (KES 2002) - FIN
- c. Electronic Systems
HoRa 2000 E - GER

3.2.2. Windflags

The windflags for the shooting range must be a highly visible color, 10 x 40 cm in size and must be made from thin artificial silk or silk. Flags may not weigh more than 5 grams. Their construction must allow for easy 360 degree rotation, pivoting at a right angle to the flag post. A diagram of windflag construction is shown in this Annex.

3.2.3. Start Numbers

3.2.3.1. Sizes

Sizes of start numbers are as follows:

- a. Front and back numbers on the bib:

outlined figure or block figure - height at least 12 cm, width at least 1.5 cm for the outlined figure and 2 cm for the block figure;

- b. Side numbers on the bib:
height at least 6 cm, width at least 1.2 cm. The bottom edge of the figures on the sides must be spaced 8.5 cm from the bottom edge of the bib;
- c. Thigh numbers: 12 cm high and 2 cm wide.

3.2.3.2. Cloth/Material

Pullover (vest) start numbers must be made of smooth cloth, 100% polyester interlock or 100% polyester-warp knitting.

The start numbers must be tailored to the needs of the female and male athletes: they may not impede movements of the shoulder joints.

3.2.4. Timing Equipment

For OWG, WCH, JWCH and BWC competitions, computer driven, electronic timing equipment must be used. The equipment must be capable of electronic interface with the target system in use and must have electric or electronic sensors at the start and finish. Additionally, the equipment system must be able to receive and process manually or automatically activated intermediate time signals. For manual timing, good quality professional stop watches or manually activated electrical timing devices must be used.

4. ADVERTISING

4.1. APPLICATION

The IBU advertising regulations apply to the WCH, JWCH, BWC, CCH and BCC events and competitions.

4.2. COMMERCIAL MARKINGS ON EQUIPMENT

Technical specifications of the size, the form and the number of commercial marks will be decided by the EB each spring for the following competition season and will be published in the International Biathlon Calendar.

4.3. MEASUREMENT OF ADVERTISING SIZES

4.3.1. General

Advertising occurs in two dimensions within a shape defined by its text, line boundary or color boundary. All advertising will occur in the shapes of square, rectangle, triangle, circle, polygon or irregular. Measurement must determine the size of the surface area that the text or the area within the boundary occupies in order to approve or reject the advertisement according to the sizes stipulated in the foregoing regulations.

4.3.2. Measurement Procedures

The size of the commercial marking is the surface area within a line that follows the actual outline of the full marking. If the marking is contained within an area of different color, the total surface area of the different color is to be measured.

4.3.3. Text or Letters

If the text is within a line or color boundary, use the applicable shape formula. If the text or letters stand alone on the general garment background, trace the outline of the furthest extensions of the letters and then apply the appropriate shape formula to the outline thus created.

4.3.4. Measurement of Geometric Shapes

The surface area of a square, rectangle, triangle, circle and polygons is determined by the standard geometric formula. If there is doubt about a polygon being a polygon, it is to be measured as irregular.

4.3.5. Irregular

If the appropriate equipment is available, use a computer scanner to determine the surface area. If the computer devices are not available, a string must be used to trace the outline to determine the number of square cm in the area.

4.4. PRELIMINARY EXAMINATION OF ADVERTISING

In cases of doubt about the size of advertising, NFs are requested to send an actual size fax or photocopy to the IBU SG, as early as possible before the start of the competition season, for a determination of its size. If questions exist about certain advertisements after the start of the competition season, NFs are requested to present the items at latest at the preliminary examination of equipment for the event.

5. CONTROL PROCEDURES

5.1. GENERAL

Controls must be conducted on competition and organization equipment to ensure that all material is in accordance with all IBU regulations.

5.2. COMPETITION EQUIPMENT

The controls which must be carried out for competition equipment are detailed in the IBU Event and Competition Rules. Controls are conducted primarily by the organizing staff appointed for that purpose and the Material Control IR for an event. Competition Juries and TDs have a responsibility for the effective and correct implementation of material controls and enforcement.

5.3. ORGANIZATION EQUIPMENT

TDs and IRs are responsible to ensure that organization equipment within their area of responsibility for an event is functional and conforms with all IBU regulations.

5.3.1. Specific Checks

5.3.1.1. Targets

- a. placement and levels;
- b. functioning, paint and maintenance;
- c. deformation of face and target plates;
- d. condition of moving parts;

- e. positioning of wires and cables;
- f. diameter measurement of target apertures;
- g. centering of prone apertures;
- h. strike test of target release impulse (release impulse proof pendulum of IFL Dresden);
- i. routing of reset ropes in mechanical systems;
- j. backup system for those systems that require electrical power.

5.3.1.2. Timing Systems

- a. principle of operation;
- b. functioning and maintenance;
- c. backup and redundant systems;
- d. power sources;

- e. placement of sensors;
- f. computer capabilities, including speed of producing printed results;
- g. interface with electronic target systems.

5.3.1.3. Computers for Draw of Start Numbers

- a. functioning and maintenance;
- b. printers;
- c. display device, projector;
- d. software program, validity, possibility of manipulation;
- e. backup and spares;
- f. total system interfaces and placement;
- g. speed of producing start lists.

5.3.1.4. Other Organizational Equipment (in IBU Event and Competition Rules)

- a. wind flags - placement, operation, specifications;
- b. relay cups - placement, specifications;
- c. range mats - placement, specifications;
- d. rifle racks - construction, placement, markings;
- e. lane markers - placement, color, no interference;
- f. numbering and signage - placement, sizes, colors.

5.4. CONTROL INSTRUMENTS, TOOLS AND MATERIALS

The following is a list of devices required for material and other controls which should be available to the responsible officials:

- a. measuring tapes (50 or 100 m) - for various facility measurements: range, penalty loop;
- b. bubble levels - for checking level of targets;
- c. radar chronograph - for checking ammunition velocity;
- d. strike tester - for targets;
- e. centering template - for prone target apertures;
- f. weigh scale - for rifle and ski weighing;
- g. templates - for measuring rifle dimensions;

- h. callipers, rulers - for rifles, skis, advertising;
- i. trigger weights - for trigger resistance;
- j. stickers, paint - for control markings.

Table 1 BIATHLON RIFLE

Table 2 FORESTOCK VARIATIONS

These Forestock variations are allowed

Table 3 These Forestock variations are prohibited

Table 4 TARGET SIZES

Table 5 EXAMPLE OF A WINDFLAG

ANNEX B

DUTIES OF THE COMPETITION JURY, TECHNICAL DELEGATES AND INTERNATIONAL REFEREES

1. COMPETITION JURY

1.1. GENERAL

The powers, election, composition and various procedures of Competition Jury operations are detailed in the IBU Event and Competition Rules. This Annex provides additional procedural direction and the specific tasks of the Competition Jury.

1.2. SUBSTITUTE CHAIRMAN

If the Competition Jury Chairman is absent, the remaining Jury members shall appoint a replacement from among themselves to chair the meeting.

1.3. COMPETITION JURY MEETINGS

The Competition Jury will meet when so directed by the Competition Jury Chairman. Meetings will normally be held as follows:

- a. immediately after the team captains meeting where it was elected;
- b. approximately one hour before the start of the competition;
- c. at any time during the competition when directed by the Competition Jury Chairman;
- d. immediately before the last finish in the competition, or as soon as possible after the last shooting;
- e. at any other time when a meeting is called by the Competition Jury Chairman.

1.4. TASKS OF THE COMPETITION JURY

The Competition Jury has the following tasks:

1.4.1 Prior to the Competition

- a. to check if the competition facilities comply with the rules;
- b. to check the eligibility of all competitors registered for the event;
- c. to supervise the draw;
- d. to determine if a competition has to be postponed or annulled due to serious difficulties (such as extreme weather conditions cold, high winds, etc.);
- e. to restrict or prohibit training on the competition facility due to circumstances such as very wet snow conditions or very little snow, which could jeopardize the conduct of the competitions;
- f. to decide if, and under which conditions, a late entry may be accepted;
- g. to decide if a competitor properly entered for participation may be replaced by a substitute in the case of force majeure ;
- h. to decide on protests concerning eligibility of competitors;
- i. to check if the qualification records of a competitor submitted by an NF justify the competitor's participation in OWG or WCH, or if start must be denied;
- j. to appoint a Competition Jury member to be permanently present on the range during the competition;
- k. to appoint a Competition Jury member to assist at the examinations of the equipment;
- l. to order ammunition checks, if required.

- 1.4.2 During the Competition
- a. to ensure that the competition is conducted according to the IBU Event and Competition Rules;
 - b. to direct the necessary measures if difficulties occur such as heavy fog or a storm which seriously endanger the correct and fair conduct of the competition: an extreme option may be to stop the competition;
 - c. to decide on the admission of competitors who arrive late at the start due to force majeure.
- 1.4.3. After the Competition
- a. to oversee the critical process, which begins immediately after the last finish, for the authorization of the unofficial awards ceremony and the posting of interim results;
 - b. to decide on protests;
 - c. to impose or reject the penalties on violations reported by the TD(s), IRs, Competition Jury members and officials of the Organizing Committee;
 - d. to determine necessary time adjustments;
 - e. to annul the competition, if necessary;
 - f. to order the repeat of a competition, if justified and possible.
- 1.4.4. Before, During and After the Competition
- The Competition Jury must be prepared at all times to decide on all matters which are not covered in the Rules or other IBU regulations.

2. TECHNICAL DELEGATES

2.1. GENERAL

Regulations for the selection, appointment and general duties of TDs are given in the IBU Event and Competition Rules. This Annex provides more specific guidance for the performance of TD duties. TDs appointed for IBU events must consult both this Annex and the IBU Event and Competition Rules.

2.2. PRINCIPLES OF THE TD FUNCTION

The TD at an IBU event has three primary functions:

- a. to represent the IBU in a technical capacity;
- b. to ensure that the event and its competitions are conducted in accordance with the IBU Event and Competition Rules and with other pertinent IBU regulations;
- c. to act as a consultant and advisor to the organizer to ensure that the best possible competitions are held.

As well, the TD is always the Competition Jury Chairman, an extremely critical position. Additionally, the TD functions as the leader of the IBU technical group of IRs.

The TD must conduct his duties with dignity, competence, alertness and objectivity. He must treat competitors, team staffs, organizers and IRs with respect and must demand to be treated correctly, as the technical representative of IBU, by all persons involved with the event. The TD must stop all attempts by anyone to interfere with his work or to usurp his authority and mandate. In serious cases of interference, the TD must report the circumstances to the IBU SG and the VP Sport.

Organizers, teams and IRs must follow the IBU regulations based directions given by the TD in the preparation and conduct of the event.

2.3. CONTACT WITH ORGANIZERS AND SITE VISITS

2.3.1. Establishment of Contact

Immediately following the appointment of TDs for events, the IBU SG informs the organizers of events for the following season about the TD appointments. Normally the organizers will contact the TD shortly after being advised. If this does not happen, the TD must contact the organizer, and inform the SG that he has done so.

2.3.1.1. Continuing Contact and Problems

After initial contact is established, the TD and organizer may communicate as necessary, however, it is advisable that the SG be copied with all written correspondence. If any problems arise with the OWG or WCH, the SG must be informed immediately.

2.3.2. Inspections and Site Visits

A TD should inspect the site of the event for which he has been appointed in time to direct necessary changes in the facility or plans, and to give timely assistance to the organizer. Inspections are to be made as follows:

2.3.2.1. OWG

Normally both TDs should first visit the site for an inspection and meetings shortly after the Games have been awarded. The visit is to be organized in consultation with the SG and the organizers. Further visits will be made as necessary.

2.3.2.2. WCH and JWCH

The TD has to inspect the competition facilities not later than eight months prior to the beginning of the event.

2.3.2.3. BWC, CCH and BCC Events

The inspection must be made not later than four months before the event. If the OWG, WCH, JWCH or a BWC event has been held on the site within the previous two competition seasons, it is not necessary to make an inspection prior to the coming event. However, if major changes have been made or if the organizer wishes an inspection, the TD will inspect.

2.3.3. Inspection Checks

During the inspection the following must be confirmed:

- a. the competition facilities are in accordance with the IBU Event and Competition Rules;
- b. all preparations for the event are in accordance with the IBU Event and Competition Rules;
- c. the structure of the organizing committee is appropriate and officials appointed for the event are properly trained and prepared, including the required numbers with an IR license;
- d. accommodation and food arrangements for teams meet the requirements, including costs per person for full pension;
- e. transport plans are functional and distances are within requirements;
- f. import and export laws for rifles and ammunition are clear, and what storage arrangements have been made for rifles and ammunition;

- g. appropriate publicity arrangements have been made with the press, radio and TV;
- h. doping and blood test controls have been arranged;
- i. all required safety precautions have been implemented.

2.3.4. Inspection Reports

TDs must make a written report of inspections to the IBU SG, the VP Sport and the Chairman of the Organizing Committee immediately following the inspection. The reports should in particular address unresolved problems and unsatisfactory situations but must also include the information in the following format.

- a. Title name of event, location, date(s) of inspection;
- b. Inspection Party: names and appointments of persons who participated in the inspection;
- c. Inspecting Format: meetings, facility inspections;
- d. Site and Facility Description: general location and character of the site, facility description trails, stadium, range, etc;
- e. Organizing Committee: general structure, numbers of officials, state of training and qualifications;
- f. Hosting Arrangements: accommodation, meals, transport, ceremonies, social events, media, costs;
- g. Problem Areas;
- h. Conclusion overall summary.

2.3.4.1. TDs who are members, must present their report to the following meeting of the IBU TC.

2.4. TD TASKS AT EVENTS

TDs must perform the following tasks at events:

2.4.1. Tasks Prior to Events

TDs must arrive in due time to check, before the start of the official training, whether the competition facilities meet all requirements for training and competition and where changes are required. He must make immediate contact with the organizing committee to ensure that:

- a. team captains meetings and draws are prepared;
- b. arrangements for the assembly of the Juries are made;
- c. the entries of the participating nations were received in time;
- d. correct reception plans for the teams are ready;
- e. the costs for the teams are the same as those stated in the application for the event.

2.4.2. Tasks During Events

2.4.2.1. General

The TD must work closely with the Competition Chief during the event and each competition, ensuring that the all operations are conducted correctly, without incidents and in accordance with the IBU Event and Competition Rules and other pertinent IBU regulations.

2.4.2.2. Meetings

The TD must take part in all the meetings of the Organizing Committee, the team captains and the Competition Jury, as well as the draw.

2.4.2.3. Responsibility to IRs

Keep IRs briefed on the current situation and direct and coordinate their activities.

2.4.2.4. World Cup Coordinator

Communicate and cooperate with the World Cup Coordinator.

2.4.3. Tasks Prior to Competitions

2.4.3.1. Information Passage

Hold a meeting with the IRs to brief on the plans for the competition, including communications during the competition, and to assign tasks. This meeting can also be combined with the meeting that is held by the Competition Chief for his chiefs prior to each competition.

2.4.3.2. Inspections

Make a general inspection of the facility.

2.4.3.3. Reports

Obtain reports of preparedness from the IRs and the Competition Chief.

2.4.3.4. Competition Jury Meeting

Hold a meeting of the Competition Jury one hour before first start to determine if conditions are suitable for the competition. The TD must obtain reports from the IRs about their areas and from the Competition Chief prior to this meeting.

2.4.4. Tasks During Competitions

2.4.4.1. General

Oversee and coordinate the work of the Competition Chief and the IRs, receive reports on the progress of the competition and take remedial actions as necessary.

2.4.4.2. Competition Jury Meetings

Hold meetings of the Competition Jury as required.

2.4.5. Tasks After Competitions

2.4.5.1. Last Finish

With the Competition Chief, direct and coordinate the critical process which starts immediately after the last finish.

2.4.5.2. Interim Results

Confirm the correctness of the Interim Results, sign them, authorize their posting and record the time of posting on the results.

2.4.5.3. Flower Ceremony

Authorize the conduct of the unofficial awards ceremony when he is satisfied that the first three placings are confirmed. It must be noted that there may be a later protest and that the unofficial ceremony is at the risk of the organizer.

2.4.5.4. BWC Points

Ensure that the organizer produces the World Cup and Nations Cup points correctly.

2.4.5.5. Evaluation

Hold an evaluation meeting about the competition for the Competition Chief and his chiefs and the IRs.

2.4.6. Tasks After the Event

2.4.6.1. BWC Points

Ensure that the lists of World Cup and Nations Cup points are sent immediately to the next host of BWC.

2.4.6.2. Event Evaluation

Hold an evaluation meeting about the entire event for all organizing committee chiefs and the IRs.

2.4.6.3. Written Report

Prepare a written report about the event and send it to the IBU SG, VP Information, VP Sport and the Chairman of the Organizing Committee not later than one month after the event. A prepared IBU TD report form for this purpose will be distributed by the Chairman of the TC Referee Sub-Committee to all TDs appointed for IBU events each season.

2.4.6.4. Report at TC Meeting

IBU TDs who are members of the TC report on the event at the next meeting of the IBU TC.

3. INTERNATIONAL REFEREES

3.1. GENERAL

The general regulations for the selection, appointment and the work of IRs are provided in the IBU Event and Competition Rules. This annex supplements the general regulations by detailing specific duties of IRs.

3.1.1. Principles of the IR Function

IRs, like TDs, have the responsibility of being the technical representatives of IBU at an event, in their area of responsibility and under the direction of the TD. All of the principles which apply to the TD function apply to IRs, except being in the Competition Jury, within their own area of responsibility..

3.1.2. Notification of Appointment and Preparation

Shortly after being appointed for an event, the IR will be notified of the appointment by the Chairman of the IBU TC Referee Sub-Committee. The IR is not required to establish formal

contact with the organizer except for travel and accommodation arrangements. Once notified of the appointment, the IR must prepare so that he is fully conversant with the current IBU rules and regulations for his area of responsibility.

3.2. IR TASKS AT EVENTS

IRs have the following tasks for an event.

3.2.1. Tasks Prior to Events

IRs must arrive at the event site in time to prepare prior to the first official training: the Material Control IR must arrive in time for the preliminary examination of equipment. On arrival they must report to the TD to announce their presence and to receive briefings and directions. Also they must contact the chiefs from the Organizing Committee for their areas of responsibility and review arrangements, and inspect their areas. The checklist in the Organizers' Guide should be used as a guide. If there are problems, they must be reported to the TD.

3.2.2. Tasks Prior to Competitions

In preparation for each competition, the IRs must:

- a. attend all team captains meetings, any other meetings as directed by the TD and meetings held by the chiefs of their areas;
- b. carry out a detailed inspection of their areas and check all plans (checklist) to ensure they are in accordance with the Rules, and direct corrections to be made as necessary;
- c. remain in their areas to oversee preparations and activities;
- d. report to the TD when their areas are ready for the competition;
- e. carry out other tasks as directed by the TD.

3.2.3. Tasks During Competitions

During each competition the IRs must:

- a. remain in their areas to supervise all activities to ensure the correct and orderly conduct of the part of the competition which is their responsibility;
- b. intervene to stop an error from being made;
- c. assist and advise the organizing officials if required;
- d. ensure all safety precautions are being carried out;
- e. report to the TD when significant activities occur such as first start, last start, first shooter on the range, last shooter on the range, first finish, etc, and if any unusual incident occurs such as an injury, etc;
- f. observe violations of the Rules and report them to the TD;
- g. carry out any other tasks as directed by the TD.

3.2.4. Tasks After Competitions

At the end of each competition IRs must:

- a. report to the TD that all is clear for their area or report the problems which have occurred and have not been previously reported: these reports must be made immediately when it is possible in order to assist the speedy posting of interim results and the conduct of the unofficial awards ceremony;
- b. report to the Competition Jury about the circumstances of penalties, when so directed;
- c. hold a short evaluation meeting about the competition for the chief and supervisors of the area.

3.3. IR AUTHORITY, RESPONSIBILITIES AND ORGANIZATIONAL RELATIONSHIPS

3.3.1. Authority

IRs are responsible and subordinate to the TD for the appropriate preparations and the correct and orderly conduct of competitions in their areas of responsibility. IRs are not in charge of the conduct of activities in their areas, but are responsible to ensure that all operations are correct. They must maintain close contact with the chiefs of their areas during the entire event in order to accomplish their mission.

3.3.2. Specific Areas of Responsibility

The specific areas of responsibility for IRs within their general areas are:

- a. IR Course: all course matters including configurations of loops, technical specifications, grooming, signage and fencing, control and control points, access control, forerunners, communications, safety and first aid arrangements;
- b. IR Range: all range matters including layout and configurations, specifications, targets and their operation, penalty loop, coaches enclosure, signage and numbering, lane markings, wind flags, rifle racks, relay cups, grooming, scoring, control procedures, communications, and safety;
- c. IR Start/Finish: all start/finish area matters and timing systems including layout, configurations, specifications, relay hand-over zone, start clock and course sequence board, photo-finish camera for Pursuit, Mass Start and Relay Competitions and finish video camera for all competitions, warm up area, arrangements for competitors' clothing, grooming, signage and fencing, traffic flow and control, start and finish procedures, communications, timing procedures and equipment, and safety;
- d. IR Material Control: all material control matters including timings, control equipment, preliminary examination of equipment, start and finish control layouts (in consultation with IR Start/Finish), control procedures, traffic flow and control, communications, and safety.

3.3.3. Organizational Relationships

The primary relationships for IRs with the Organizing Committee (direct liaison) are as follows:

- a. IR Course - Chief of Course;
- b. IR Range - Chief of Range;
- c. IR Start/Finish - Chief of Timing (may be a different appointment for some organizers);
- d. IR Material Control - Chief of Timing and/or Material Control Supervisor.

ANNEX C

TRAINING AND LICENSING OF TECHNICAL DELEGATES AND INTERNATIONAL REFEREES

1. GENERAL

The IBU has a training, licensing and employment system for technical officials in order to ensure common standards and effective and correct performance of officiating duties by IBU officials at all IBU events. The Rules direct the appointment and duties of technical officials (TDs and IRs) for IBU events. This Annex details the training, testing, licensing and employment conditions of the technical officials.

1.1 JURISDICTION

All aspects of selection, training, testing and licensing of Biathlon technical officials at international level is under the jurisdiction of the IBU TC. The TC Referee Sub-Committee is responsible for implementation and administration of the officials system.

1.1.1. Liaison

NFs may communicate about technical officials matters directly with the Chairman of the Referee Sub-Committee or the IBU SG. NFs are requested to appoint a person responsible for technical officials matters within the NF and to provide the Chairman of the Referee Sub-Committee with the contact information for that person.

1.2. QUALIFICATION LEVELS

There are two levels of qualifications for IBU technical officials:

- a. Technical Delegate (TD).
- b. International Referee (IR);

1.2.1. Intended Roles of TDs and IRs

Officials are trained and licensed for the following purposes:

1.2.1.1. TDs

The TD qualification is primarily intended to prepare and certify an official to function as a TD at IBU events. TD qualified persons may also fulfil any IR function at IBU events and may hold IR annotated positions in an organizing committee.

1.2.1.2. IRs

The purpose of the IR qualification is to prepare and certify officials to function in IR positions at IBU events and to hold IR designated positions in organizing committees. As well, the certified IRs form the pool of qualified persons from which candidates are selected for further training to TD qualification.

1.3. ELIGIBILITY FOR APPOINTMENT

In order to be eligible for appointment to function as a TD or IR at IBU events, an official must be qualified and must hold a valid license for the level of the appointment.

1.4. AGE LIMITS

The following age limits apply for the certification and employment of TDs and IRs.

1.4.1. TDs

1.4.1.1. Writing of TD Test

A person must be at least 28 and not older than 57 years of age when writing the TD qualification test.

1.4.1.2. Employment as TD at an IBU Event

A person may not be employed as a TD at an IBU event if they are older than 60 years of age.

1.4.2. IRs

1.4.2.1. Writing of IR Test

A person must be at least 22 and not older than 57 years of age when writing the IR qualification test.

1.4.2.2. Employment as IR at an IBU Event

A person may not be employed as an IR at an IBU event if they are older than 65 years of age.

1.4.3. Exceptions to Age Limits

The IBU TC is authorized to make exceptions to the above age limits for TDs and IRs, on an individual basis if requested by the person in question, and if the circumstances warrant an exception.

1.5. TERMINOLOGY

It must be noted that the terms TD and IR are the names of both the levels of qualification and the position titles when appointed for an IBU event. If confusion arises in use of the terms for both purposes in one context, the qualification terms shall be indicated as TD (Q) and IR (Q).

2. SELECTION, TRAINING AND TESTING

Selection, training and testing of candidates for TD and IR qualification shall be done as follows.

2.1. SELECTION FOR CERTIFICATION

2.1.1. TDs

Candidates for TD qualification are selected by the IBU TC from qualified IRs, based on observed performance, however, NFs may nominate suitable IRs for consideration by the TC.

2.1.1.1. TD Prerequisites

- a. The candidate must have proven high quality performance as an IR and must be suitable to function in a senior leadership role with extreme stress and the highest level of consequence of error, and must be capable of interfacing effectively with senior members of organizing committees, the media and dignitaries.
- b. The candidate must have and have held a valid IBU IR license for at least four years and must have taken part in at least two international competitions during the past four years.
- c. The candidate must be within the TD age limits.

2.1.1.2. TD Quota

Candidates shall be selected for TD training and certification in sufficient numbers to maintain the required number of TDs in the TD Group, and necessary spares as determined by the TC.

2.1.2. IRs

2.1.2.1. IR Applications

Candidates are selected for training and licensing as IRs based on a nomination by their NF, in writing, to the Chairman of the IBU TC Referee Sub-Committee. Applications must be sent by the deadline date in the seminar invitation or by 31 May in the case of testing under special circumstances. Applications must include the following information:

- a. full name, date and place of birth, gender, nationality, full residence address, phones, fax, e-mail address
- b. mother tongue and command of other languages
- c. test language
- d. seminar location and dates
- e. length and type of experience as a national referee

2.1.2.2. IR Requirements

All candidates must meet the required prerequisites for IRs. NFs are required to screen their nominations for suitability in general and for prerequisites, and to confirm in the nomination that the person meets all necessary criteria. Final approval of a candidate for acceptance into the program is under jurisdiction of the IBU TC.

2.1.2.3. IR Prerequisites

- a. The candidate must be suitable to perform very responsible duties with a high consequence of error under stressful circumstances, in winter outdoor conditions, for long periods of time. The candidate must have sufficient skills in cross-country skiing to be able to ski on competition trails as necessary.
- b. The candidate must have and have held a valid national referee license for at least four years.
- c. The candidate must be within the IR age limits.

2.1.2.4. IR Quota

There is no set limit for numbers of IRs.

2.1.3. The TD Group

The TD Group is established under control of the TC and shall consist of 30 qualified and licensed TDs plus all of the members of the TC - total 40. All TDs appointed for IBU events shall be from the TD Group. There must be at least one TD from every continent in the TD Group.

2.2. TRAINING

2.2.1. General

Training of TDs and IRs will be conducted at seminars instructed by members of the IBU TC. Seminars will be held in various regions of the world, based on requirements. Scheduling of the seminars will be decided by the IBU EB based on recommendations of the TC. TD seminars will be held at least once every two years.

2.2.2. Seminar Specifications

The format of TD and IR seminars will be as follows.

2.2.2.1. TD Seminars

- a. Duration 22 hours, including testing;
- b. Candidates maximum 15, minimum 5;
- c. Instructors VP Sport, Chairman IBU TC Referee Sub-Committee plus one or two other members of the TC as directed by the TC;
- d. Language - English and/or German or Russian with translation as required.

2.2.2.2. IR Seminars

- a. Duration 18 hours, including testing;
- b. Candidates maximum 25, minimum 5;
- c. Instructors two members of the TC appointed by the IBU TC Referee Sub-Committee;
- d. Language as required.

2.2.3. Attendance of Observers

The TC may authorize the attendance of observers at IR seminars. These persons will normally be national referees who will not be tested, qualified IRs who are doing refresher training for themselves or other interested persons.

2.2.4. NF Sponsored Seminars

A seminar and testing may be held at the request of NFs if there are a sufficient number of eligible candidates and the NF(s) will pay all costs for the IBU instructors and the seminar. The final decision for the approval of such a seminar is under the jurisdiction of the IBU TC.

2.2.5. Seminar Content

The TD and IR seminars will be held in accordance with the standard seminar training plan established by the TC and which will include:

- a. General Biathlon Information
TD and IR System, IBU, Definitions, History;
- b. Classes of Competitors and Types of Competitions, Eligibility, Entries;
- c. Organizations and Duties:
Organizing/Competition Committees, *Juries*, TDs, IRs;
- d. Preparations for Competitions:
Training, Team Captains Meetings, Draws, Facility Preparations, Equipment Checks, Zeroing;
- e. Operative Competition Rules:
Use of Rule Book, Equipment and Measuring Devices, Advertising, Start, Skiing, Shooting, Finish, Penalties and Protests;
- f. Competition Activity:
Supervising Officials, Monitoring Competition Activity, Timing, Forms, Results, Communications and Reports;
- g. Case studies (Competition Jury cases, etc) TD seminars only;

h. Written Test.

2.3. TESTING

All TD and IR candidates must successfully complete a written test in order to become qualified as a TD or IR. Testing shall be conducted in conjunction with TD and IR seminars, unless otherwise authorized by the TC for exceptional circumstances.

2.3.1. Test Formats

Written tests are formulated by the IBU TC Referee Sub-Committee, with changes for each test administration, and will contain questions which will test the required knowledge of TD and IR candidates. Tests must be written without the use of any reference material. Test specifications are as follows:

- a. Questions TD: 35, IR: 25
- b. Allowed time 120 minutes
- c. Pass Grade 80 %

2.3.2. Scoring of Tests

Tests shall be marked according to the standard marking guide approved by the TC.

2.3.3. Supplementary Verbal Questions

The TC may direct that supplementary verbal questions will be asked during the testing.

2.3.4. Test Languages

TD tests must be given and answered in English, German or Russian, however the TC may authorize exceptions as required.

IR tests may be administered in any language, as appropriate for the testing circumstances.

3. LICENSING

3.1. APPROVAL OF QUALIFICATION

Following attendance at a seminar and completion of the test to the required standard, successful TD and IR candidates will be reported to the next meeting of the IBU TC. If no other circumstances exist as grounds for denial, the TC shall approve all persons who have passed the seminar and written test.

3.2. ISSUE, FORMAT, VALIDITY AND CONDITIONS OF LICENSES

3.2.1. Issue

Following approval by the TC, a license will be issued to a TD or IR and will be effective from the date of the issue.

3.2.2. Format

Licenses issued to IRs and TDs must contain the following information.

3.2.2.1. TD AND IR

- a. type of qualification TD or IR
- b. full name, date of birth, gender, nationality
- c. period of validity and extensions
- d. photo of the holder, impressed with the IBU seal
- e. signature of the Chairman of the TC or his designate.

3.2.2.2. TD - Additional Information

- a. record of employment at IBU events to be signed by the TD of the event or the Chairman/Competition Chief of the organizing committee if the TD is the official in question, and must be stamped with the organizers seal;
- b. qualification record dates of qualification to national referee, IR and TD;
- c. record of TD and IR seminars attended;
- d. record of annual validations of the license.

3.2.3. Periods of Validity

TD and IR licenses are valid for four years from the date of issue and may be renewed for further periods of four years, without limit, as long as other factors permit the renewals.

3.2.3.1. Renewal Process

TD and IR licenses may be renewed after the expiration of a four year validity period by the NF of the official submitting a written request, with the license, to the Chairman of the TC Referee Sub-Committee. The requests for renewal must be submitted by 31 May prior to expiration for TD licenses and prior to the expiration date of the license for IRs.

3.2.3.2. Annual Validation of TD Licenses

NFs or TD must send TD licenses for annual validation to the Chairman of the IBU TC Referee Sub-Committee by 30 April of every year. If all circumstances are in order, the license will be stamped in the annual validation record and returned.

3.2.3.3. Retention of TD License

If a TD is no longer a member of the TD Group for reasons other than age, disciplinary or incompetence reasons, his license may be renewed and validated, as long as other validity factors are maintained.

3.2.4. Revoking of License

A license may be taken away from a TD and IR for disciplinary, poor performance or personal situation reasons. The process for revoking of a license is initiated by a recommendation by the Chairman of the IBU TC Referee Sub-Committee to the TC. After investigating the case thoroughly, the TC may revoke the license, subject to all conditions of the IBU Disciplinary Rules.

4. QUALIFICATION AND APPOINTMENT BADGES

Distinctive qualification and appointment badges and markings will be issued to TDs and IRs. It is the right of every TD and IR with a valid license to wear the appropriate qualification badge at any time.

4.1. QUALIFICATION BADGES

Badges of qualification will be issued to TDs and IRs at the same time as their licences are granted, as follows:

4.1.1. TD

TDs will be issued a metal badge of gold color with the IBU Logo and the words Biathlon Technical Delegate imprinted. Prior to issue, the name of the recipient shall be engraved on the badge.

4.1.2. IR

IRs will be issued a white and gold colored metal badge with a Biathlete figure and the words International Referee imprinted. As well, each IR badge has an imprinted sequential issue number.

4.2. APPOINTMENT MARKINGS

TDs and IRs appointed to positions as TDs and IRs at IBU events shall be issued a clear distinctive marking to identify their position. The markings may be a badge, armband, badge or item of clothing and must indicate IBU TD or IR as appropriate. The IBU TC will periodically direct what types of marking will be used by TDs and IRs appointed for IBU events.

5. EMPLOYMENT OF TDs AND IRs

5.1. GENERAL

TDs and IRs are appointed for OWG, WCH, JWCH, BWC, CCH, BCC, Continental Games, CISM, EYOD and the University Games by the IBU TC based on the recommendation of the IBU TC Referee Sub-Committee, subject to approval of the EB.

TDs for events not under IBU jurisdiction shall be appointed only if requested by the responsible body for the event.

5.1.1. New TD Employment

Newly qualified TDs may be employed only as IRs at IBU events during the first four years after their qualification. The TC may authorize exceptions to this restriction if circumstances so warrant.

5.2. EMPLOYMENT GUIDELINES

Appointment of TDs and IRs is to be based on a balance of utilizing the best and most experienced officials for each event while providing development opportunities for less experienced officials. At the same time, factors such as language capability and travel costs must be considered as well. As many different officials as possible should be employed on an alternating basis.

5.2.1. OWG Preparation

Senior officials of the organizing committee, such as the Competition Chief, Chiefs of Course, Range and Timing, for the next OWG should be considered as candidates as TD and IRs at a preceding WCH, if appropriate and possible.

5.2.2. Sources of Officials for Employment

TDs and IRs shall be appointed for various IBU events from the following sources.

- a. OWG 2 TDs (TC), 8 IRs (TD Group)
- b. WCH TD (TC), 4 IRs (TD Group)
- c. JWCH TD (TC), 4 IRs (TD Group)
- d. BWC TD (TC), 1 IR (TD Group) 3 IRs NF
- e. CCH TD (TD Group), 4 IRs (any IR)
- f. BCC TD (TD Group), 4 IRs (any IR)
- g. CISM, University Games, Continental Games, EYOD TD (TC).
- h. Summer WCH: TD (TC), IR (TD Group)

6. FINANCIAL

6.1. TD AND IR COSTS

TDs and IRs shall receive daily pocket money for each travel and work day arising from IBU duties, and reimbursement of travel costs, in accordance with the current IBU financial policy.

6.2. SEMINAR AND TESTING FINANCES

The financial arrangements for TD and IR seminars and testing shall be directed by the IBU EB.

ANNEX D

RULES FOR CONTINENTAL CHAMPIONSHIPS

1. EUROPEAN CHAMPIONSHIPS

1.1 GENERAL

1.1.1 Appointment of Organizers

The ECH are awarded by the IBU TC Continental Sub-Committee

1.1.2. Participants

The NFs may register up to eight competitors in each class to participate in the ECH. Four competitors of each nation are eligible to start in the Individual and Sprint competitions. Each nation may enter one Relay team for the Relay competition. The champion of the previous competition season is additionally qualified. The 50 best athletes of the qualification competition of each class are eligible to start in the Pursuit competition.

1.2 COMPETITION RULES

1.2.1 Scope

The IBU Event and Competition Rules shall apply for the ECH with the following deviations:

1.2.1.1 Relay Competitions

The Relay competitions for Junior Women are organized with three Biathletes per Relay team.

1.2.1.2 Assignment of Start Rows

The assignment of the Relay start rows is based on the ranking of the ECH of the year before. The start tracks are assigned by random draw, separately for each start row.

1.2.1.3 Start Sequence in Relay and Pursuit Competitions

The classes will start in the following sequence:

- Men - Junior Men
- Women - Junior Women

2. NORTH AMERICAN CHAMPIONSHIPS

2.1. GENERAL

The NACH is an event of the IBU and is held annually under its control, hosted by an IBU member nation which is a member of Biathlon North America, for Men, Women, Junior Men and Junior Women. Other classes of competitors may be allowed to participate with the agreement of both the organizer and the TD. If other classes are permitted to participate, it must be notified in the invitation.

2.1.1. Joint Events

The NACH may also be an event of the BNAC series but the BNAC may not interfere with or in any way reduce the prominence or importance of the NACH.

2.2 COMPETITIONS

The NACH is a joint event held for the authorized classes and will consist of the following competitions for each class: Individual; Sprint; and Relay. Other authorized IBU competitions, including the Pursuit, Mass Start and Team may be added at the direction of Biathlon North America with the agreement of the IBU TD.

2.3 CHAMPIONS AND PARTICIPATION

2.3.1. Champions

The NACH is intended to result in North American Biathlon champions in each class and competition every year. Therefore, although Biathletes of all member nations of IBU may participate, all North American champions must, at the time of the NACH, be a valid member of a team from a Biathlon North America member nation of IBU.

2.3.2. Participation

As there are so few North American nations, all participating nations may enter teams based on states, provinces or territories, and regions which represent combinations of states, provinces or territories. Teams of actual nations of Biathlon North America are not permitted. However, the champion of each class and competition shall be declared under the name of the actual nation of Biathlon North America.

2.4 INVITATIONS, REGISTRATION AND ENTRIES

2.4.1 Invitations

Invitations shall be sent as stipulated in the IBU Event and Competition Rules for BWC events.

2.4.2. Registration and Entries

Each nation entitled to enter teams into the NACH, may register, for each participating team, 6 competitors in each class and may enter 4 competitors of each class for each Individual and Sprint competition, as applicable by class. Each nation may enter one official Relay team per participating team.

2.4.2.1. Extra Relay Teams

Extra and mixed state, province, territory and region Relay teams may be permitted with the agreement of both the organizer and the TD but these unofficial teams are not eligible to be declared NACH champions. The decision to allow unofficial Relay teams may be made during the Championships based on participation numbers of teams.

2.4.2.2. Team Staffs

A minimum of 5 team staff, per participating team, must be allowed to be registered for the NACH, but the number may be increased to any limit by the organizer with the agreement of the TD. If the number of permitted team staff is increased, the number must be notified in the invitation.

2.5 RULES

2.5.1. Application of IBU Rules

The IBU Event and Competition Rules shall apply fully for the NACH unless they are clearly not applicable and if they are specifically modified in this Annex, and with the following exceptions:

2.5.1.1.

Facility requirements for the NACH may be modified with the approval of the TD.

2.5.1.2.

The Junior Men's and Junior Women's Relay competitions shall consist of teams with 3 members.

2.5.1.3.

Each official team's start position in the Relay competition for each class shall be determined by a single random draw, including the front row. Extra teams must be started immediately behind the official teams and at the same time with the positions being determined by a single, separate, random draw for the unofficial teams. The row designated as the last row for the official teams may not include unofficial teams.

2.5.1.4.

If necessary, other IBU Rules and regulations, such as advertising regulations, may be modified with the approval of the IBU TC or EB, as applicable.

2.6 AWARDS AND PRIZES

IBU medals will be awarded in accordance with the Rules, Chapter 14. Organizers may give awards or prizes to additional placings in all or some competitions for all or some of the classes.

2.7 AMENDMENTS

These rules may be amended in accordance with the IBU Event and Competition Rules but only with the agreement of all member nations of Biathlon North America.

3. ASIAN CHAMPIONSHIPS

These rules will be printed at a later time.

ANNEX E

RULES FOR CONTINENTAL CUP EVENTS

1. BIATHLON EUROPEAN CUP EVENTS

1.1 GENERAL

In each competition season a maximum of eight BEC events will be organized, five of them in the Alpine countries, if possible. Two or three competitions can be conducted during each BEC event. The Continental Cup Sub-Committee of the TC of the IBU will determine how many and what types of competitions shall be organized at an event. This information shall be included in the IBU Biathlon Calendar. The competitions of the ECH are included in the BEC scoring.

1.2 Competitors and Entries

Each IBU Member Federation may register and enter up to eight competitors in each class, Men, Women, Junior Men and Junior Women. All entered competitors are eligible to win BEC points.

The registrations and entries must be made in accordance with article 1.5 of the IBU Event and Competition Rules.

1.3 Scoring

European Cup points shall be awarded at each BEC as described in the Biathlon World Cup Event Rules (article 15.8.2.1).

1.3.1 Types of Scoring

There shall be the following types of scoring for Men, Women, Junior Men and Junior Women.

- a. European Cup Total Score (Individual, Sprint, Pursuit)
- b. European Cup Score - Individual competition
- c. European Cup Score - Sprint competition
- d. European Cup Score - Pursuit competition.

1.3.2 European Cup Total Score

Three results can be deleted from the total of all scores in BEC events and the ECH in the competitions listed in 1.3.1 a.

1.3.3 European Cup Individual Competition

One competition of the Individual competitions in the BEC and ECH can be deleted.

1.3.4 European Cup Sprint Competition

One competition of the Sprint competitions of the BEC and ECH can be deleted.

1.3.5 European Cup Pursuit Competition

One competition of the Pursuit competitions of the BEC and ECH can be deleted.

1.4 Awards

1.4.1 The athletes placed first in the competitions listed under 1.3.1 a-d shall be awarded a European Cup.

1.4.2 The European Cups shall be paid by the IBU.

1.5 Competition Rules

1.5.1 Scope

The IBU Event and Competition Rules shall be applied to the BEC events; however, there shall be the following deviations:

1.5.1.1 Pursuit Competition

Up to 60 participants, with a maximum of 7 minutes behind the winner in the qualification competition, shall be eligible to start. Athletes who are lapped before the first shooting in the standing position may be removed from the competition by the organizer.

Start sequence of the categories and the zeroing times will be established by the Team Captains meeting for the competition.

1.5.1.2 Relay Competitions

The Relay competitions for Junior Women may be conducted with three athletes per team.

1.6 Responsibility

The IBU TC Continental Sub-Committee is responsible for all BEC event related matters.

2. BIATHLON NORTH AMERICAN CUP EVENTS

2.1. GENERAL

A BNAC events series will be conducted annually in Canada and/or the United States, with scheduling, locations, programs and special rules directed by Biathlon North America. The IBU Event and Competition Rules will be used as applicable.

3. BIATHLON ASIAN CUP EVENTS

3.1. GENERAL

BAC events will be held as directed by the Asian continental organization, using the IBU Event and Competition Rules as applicable.

ANNEX F

COMPETITION RULES FOR SUMMER BIATHLON

LIST OF CONTENTS

1. CROSS-COUNTRY RUNNING WITH SMALLBORE SHOOTING
 - 1.1 General Regulations
 - 1.2 Types of Competitions, Course Lengths and Shooting Specifications
 - 1.3 Competition Facilities

2. ROLLER SKIING WITH SMALLBORE SHOOTING
 - 2.1 Types of competitions
 - 2.2 General regulations
 - 2.3 Competition Facilities
 - 2.4 Shooting bouts
 - 2.5 Shooting range
 - 2.6 Target system
 - 2.7 Course regulations
 - 2.8 Shooting regulations

3. MOUNTAIN BIKE BIATHLON
 - 3.1 Definition
 - 3.2 Classes
 - 3.3 Competitions
 - 3.3.1 Qualification if required by entry numbers
 - 3.4 Draw of start numbers by classes
 - 3.5 Competition Jury
 - 3.6 Competition facilities and arrangements
 - 3.7 Competition equipment and clothing
 - 3.8 Training and zeroing
 - 3.9 Shooting regulations
 - 3.10 Penalties
 - 3.11 Ranking

1. CROSS-COUNTRY RUNNING WITH SMALLBORE SHOOTING

1.1. GENERAL REGULATIONS

Cross-country running and small-bore shooting is a form of summer Biathlon which is conducted in a similar fashion to winter Biathlon, without snow and skis. In principle, all IBU Event and Competition Rules apply unless other regulations are formulated in this Annex.

1.1.1. Rifle Usage

The rifle is not carried by the competitor while running but will be left at the shooting range in a rack, and will be picked up by the competitor for each shooting bout. The competitors

themselves will remove the rifles from the rifle rack by grasping the barrel and then carrying it to the shooting lane, with the barrel pointing upwards at all times. The same method is used to return the rifles to the racks after each bout of shooting. The carrying harness may be left on the rifle, or it may be removed.

1.2. TYPES OF COMPETITIONS, COURSE LENGTHS AND SHOOTING SPECIFICATIONS

Cross-country running with small-bore shooting will be conducted according to the following table.

TABLE TO 1.2. – TYPES OF COMPETITIONS, COURSE LENGTHS AND SHOOTING SPECIFICATIONS

1	2	3	4	5
Class of Competitor	Course Length And Type of Competition	Shooting Bouts	Shooting Occurrences	Shot Penalty
MEN	10 KM INDIVIDUAL	P, S, P, S	AT 2, 4, 6, 8 KM	40 Seconds
	6 KM SPRINT	P, S	AT 2 and 4 KM	100 M Penalty Loop
	8 KM PURSUIT	P, P, S, S	BETWEEN 1.5 and 6.5 KM	100 M Penalty Loop
	4 X 6 KM RELAY	P, S	AT 2 and 4 KM	100 M Penalty Loop
WOMEN	8 KM INDIVIDUAL	P, S, P, S	BETWEEN 1.5 and 6.5 KM	40 Seconds
	4 KM SPRINT	P, S	BETWEEN 1 and 3 KM	100 M Penalty Loop
	6 KM PURSUIT	P, P, S, S	BETWEEN 1 and 5 KM	100 M Penalty Loop
	4 X 4 KM RELAY	P, S	BETWEEN 1 and 3 KM	100 M Penalty Loop
JUNIOR MEN	8 KM INDIVIDUAL	P, S, P, S	BETWEEN 1.5 and 6.5 KM	40 Seconds
	6 KM SPRINT	P, S	AT 2 and 4 KM	100 M Penalty Loop
	7 KM PURSUIT	P, P, S, S	BETWEEN 1 and 6 KM	100M Penalty Loop
	3 X 6 KM RELAY	P, S	AT 2 and 4 KM	100 M Penalty Loop
JUNIOR WOMEN	5 KM INDIVIDUAL	P, S, P	BETWEEN 1 and 4 KM	40 Seconds
	4 KM SPRINT	P, S	BETWEEN 1 and 3 KM	100 M Penalty Loop
	4.5 KM PURSUIT	P, P, S	BETWEEN 1 and 3.5 KM	100 M Penalty Loop
	3 X 4 KM RELAY	P, S	BETWEEN 1 and 3 KM	100 M Penalty Loop

Notes to Table at 1.2

Column 1: Class of Competitor: according to these Rules.

Column 2: Course Length and Type of Competition: the required length of the course and the type of competition according to these Rules.

- Column 3: Shooting Bouts: the number and sequence of shooting bouts and shooting positions
- Column 4: Shooting Occurrences: where shooting takes place during the competition.
- Column 5: Shot Penalty: the automatically imposed penalty for each target not hit.

1.3 COMPETITION FACILITIES

Competition facilities are arranged in general conformity with winter Biathlon rules, with the obvious appropriate differences suitable for summer conditions. Facility requirements may be modified with the approval of the TD.

All areas on which competitors run must be smooth, level and well packed with a firm surface which provides good traction for competitors in all summer weather conditions.

1.3.1 Course

Trails must be a minimum width of 3 m and each trail loop may be used as many times as required by the competition. All parts of the course must be safe for the competitors running at full speed.

1.3.2. Shooting Range

An adequate number of rifle racks must be located on the shooting range to allow each competitor a place for his rifle while he is running.

1.3.3. Penalty Loop

The penalty loop must 100 m (+ or - 5 m) in length.

2. ROLLER SKIING WITH SMALLBORE SHOOTING

2.1 Types of Competitions

2.1.1 Individual Competitions

Men	20 km with 4 bouts of shooting (P, S, P, S)
Junior Men	15 km with 3 bouts of shooting (P, S, P)
Women	15 km with 4 bouts of shooting (P, S, P, S)
Junior Women	10 km with 3 bouts of shooting (P, S, P)

2.1.2 Sprint Competitions

Men and Junior Men	10 km with 2 bouts of shooting (P, S)
Women and Junior Women	5 km with 2 bouts of shooting (P, S)

2.1.3 Relay Competitions

Men	3 x 7.5 km with 2 bouts of shooting (P, S) for each competitor
Junior Men	3 x 7.5 km with 2 bouts of shooting (P, S) for each competitor
Women	3 x 5 km with 2 bouts of shooting (P, S) for each competitor
Junior Women	3 x 5 km with 2 bouts of shooting (P, S) for each competitor

2.2 General regulations

The competitions may only be carried out with roller skis of the same type and model. The roller ski model to be used must be defined in the invitation. If the organizer provides the roller skis, it must be stated in the invitation. The rifle may be carried on the course or left at the shooting range. If the rifle is left at the shooting range, racks with numbers are required. The racks are to be placed so that the tracks to and from the firing points pass them. The invitation shall state whether the rifle will be carried during the competition or left at the shooting range.

2.3 Competition Facilities

The start area, finish area and the range shall be laid out in a flat area in as close proximity as possible, and so that they are easily visible to competitors and officials. Additionally, there must be adequate space for the press and spectators. Facilities which have been specifically built for Biathlon are particularly suitable for these competitions. However, the competitions can also be conducted on regular roads with little traffic according to directions given by the national/local authorities or which are closed to traffic during the competition.

2.3.1 Start Area

The start area for single starts must have a straight start line at right angles to the skiing direction. The start line for group or mass starts must be placed so that the competitors have to ski the same distance.

2.3.2 Courses

Downhill parts and curves must be laid in such a way that the competitors are allowed to ski at full speed without risk of an accident. It is permitted to use parts or sections of the course several times during one competition, provided the competitors do not interfere with or obstruct each other, or endanger themselves.

2.4 Shooting bouts

The regulations for winter Biathlon should also be applied as guidelines for the distances before, between and after shooting bouts.

2.5 Shooting range

Winter Biathlon regulations are valid for the preparation of shooting ranges.

2.6 Target system

The rules valid for winter Biathlon must be applied for roller ski events as well.

2.7 Course regulations

If a competitor is being overtaken, he must allow passing at the first call by skiing extreme right. The overtaking competitor must pass on the left. This obligation does not apply for the last 100 m before the finish, or before the hand-over zone in relay competitions.

It is strictly forbidden to impede or endanger other competitors.

If a competitor sees that another competitor has had an accident he has to inform the next competition official he meets.

If a competitor withdraws from the event he is obliged to report to the next competition official he meets.

In sprint and relay competitions the competitors are responsible for running the correct number of penalty loops immediately after their shooting bouts.

2.8 Shooting regulations

The regulations valid for winter biathlon should be applied for roller ski Biathlon with the exceptions listed below :

- a. the standing firing points for roller skis must have wooden planks on which the shooter will stand and which will ensure that the wheels of roller skis do not touch the ground
- b. the competitors must stand on the planks on the firing point so that the wheels of the roller skis do not touch the ground or the surface at the planks.

2.8.1 Targets not hit

For each target not hit in individual competitions there is a time penalty of one minute. In relay and sprint competitions one penalty loop must be skied for each target not hit (150m+/- 5 m).

3. MOUNTAIN BIKE BIATHLON

3.1 Definition

3.1.1 Mountain Bike Biathlon is a summer sport combining mountain biking and smallbore rifle shooting.

3.2 Classes of competition

Men and Women

15 - 20 years

21 - 30 years

31 - 40 years

41 + years

3.3 Competitions

Men 9 km (3-3-3) with two shootings (P, S).

Women 6 km (2-2-2) with two shootings (P, S).

3.3.1 Qualification if required by entry numbers

Men 6 km (2-2-2) with two shootings (P, S).

Women 4.5 km (1.5-1.5-1.5) with two shootings (P, S).

3.4 Draw of start numbers by classes

Group draw in every class; maximum of 4 draw groups per class

3.5 Competition Jury

1 TD appointed by IBU TC

- 1 IR IBU
- 1 IR UCI
- 2 Team captains

3.6 Competition facilities and arrangements

3.6.1 Start/finish

- a. Individual start at 60 second interval
- b. Mass start

Finish area minimum 6 meters wide followed by a 10 x 30 meter slowdown area.

3.6.2 Course

Minimum of 2 loops consisting of varying terrain.

3.6.3 Penalty loop

A loop of varying to provide a terrain, handicaps of 30 seconds.

3.6.4 Shooting range

Following IBU Event and Competition Rules with the addition of bike and rifle racks.

3.7 Competition equipment and clothing must be in accordance with IBU and UCI rules

3.7.1 Inspection of equipment and clothing

Prior to the start and following the finish; equipment and clothing will be inspected by the IBU and UCI International referees.

3.8 Training and zeroing

3.8.1 The day prior to the competition athletes will have the opportunity to use the competition course and range.

3.8.2 Zeroing will take place beginning one hour and ending 10 minutes prior to the start.

3.9 Shooting regulations

After placing the bike in the rack provided the athlete will retrieve his rifle from the rack, place the rifle on his back in the carrying position; proceed to the appropriate firing point (prone or standing), fire 5 rounds, replace the rifle on his back in the carrying position, return the rifle to the rack and resume the race on his bike. For each target missed the athlete must complete one penalty loop.

3.10 Penalties

3.10.1 IBU and UCI rules will be applied where appropriate.

3.10.2 Disqualification

- a. Not carrying the rifle on the back in the carrying position
- b. Violating safety regulations

3.11 Ranking

Competitors are ranked in accordance with their time (to 1/10 second) to complete the course.

ANNEX G

COMPETITION RULES FOR YOUTH AND CHILDREN

1. COMPETITION RULES FOR EUROPEAN FEDERATIONS

1.1. In the area of jurisdiction of the European Federations, the continental organization may organize International competitions and Championships for Youth and Children.

1.2. INTERNATIONAL COMPETITIONS AND CHAMPIONSHIPS FOR YOUTH AND CHILDREN

1.2..1. Age classes

- Children 13 and 14 years (boys/girls)
- Youth I 15 and 16 years (boys/girls)
- Youth II 17 and 18 years (boys/girls)

1.2.2. Technical Data

TYPE OF COMPETITION	SHOOTING POSITIONS	SHOOTING BOUTS	SHOTS PER BOUT	SHOT-PENALTY	TYPE OF RIFLE
6 km Individual	P,S	1.5 - 4.5 km	5	20 sec	air rifle without
4 km Sprint	P,S	1.5 - 3.0 km	5	60 m	air rifle without
4 km Pursuit	P,S	1.5 - 3.0 km	5	60 m	air rifle without
3x4 km Relay	P,S	1.5 - 3.0 km	8	60 m	air rifle without
5 km Individual	P,S	1.5 - 3.5 km	5	20 sec	air rifle without
4 km Sprint	P,S	1.5 - 3.0 km	5	60 m	air rifle without
4 km Pursuit	P,S	1.5 - 3.0 km	5	60 m	air rifle without
3x4 km Relay	P,S	1.5 - 3.0 km	8	60 m	air rifle without
8 km Individual	P,S	2.0 - 6.0 km	5	20 sec	smallbore rifle without
6 km Sprint	P,S	2.0 - 4.0 km	5	60 m	smallbore rifle without
6 km Pursuit	P,S	2.0 - 4.0 km	5	60 m	smallbore rifle without
3x5 km Relay	P,S	1.5 - 3.5 km	8	60 m	smallbore rifle without
6 km Individual	P,S	2.0 - 4.0 km	5	20 sec	smallbore rifle without
5 km Sprint	P,S	1.5 - 3.5 km	5	60 m	smallbore rifle without
5 km Pursuit	P,S	1.5 - 3.5 km	5	60 m	smallbore rifle without
3x5 km Relay	P,S	1.5 - 3.5 km	8	60 m	smallbore rifle without
10 km Individual	P,S,P	2.5 - 7.5 km	5	30 sec	smallbore rifle
7.5 km Sprint	P,S	2.5 - 5.0 km	5	60 m	smallbore rifle
8 km Pursuit	P,S,P	2.0 - 6.0 km	5	60 m	smallbore rifle
3x5 m Relay	P,S	1.5 - 3.5 km	8	60 m	smallbore rifle
7.5 km Individual	P,S,P	1.5 - 6.0 km	5	30 sec	smallbore rifle without
5 m Sprint	P,S	1.5 - 3.5 km	5	60 m	smallbore rifle without
6 km Pursuit	P,S,P	1.5 - 4.5 km	5	60 m	smallbore rifle without
3x5 km Relay	P,S	1.5 - 3.5 km	8	60 m	smallbore rifle without

2. Competition Rules for Youth and Children for other continents will be supplied at a later time.