

# **Australian Biathlon**

## **Safety Manual**

### **2009**

## **FORWARD**

This Manual has been designed to assist event organisers plan and conduct a Biathlon event

**\*\* Denotes Sections not applicable to Faezor Biathlon System as of 01/08/2001**

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# 1 ADMINISTRATION

## 1.1 NATIONAL RACE SECRETARY (NRS)

### 1.1.1 General

The National Race Secretary (NRS) is:

- Responsible to the ABA Committee
- Appointed at the Annual General Meeting of the ABA

### 1.1.2 Duties

#### 1.1.2.1 Calendar Of Events

- With input from State Race Secretaries, prepare a draft race calendar for the year and present it to the Committee by the end of November
- In consultation with the NCD, and with reference to the Skiing Australia (SA) Cross Country race calendar, confirm the schedule for a winter race program and present it to the Committee by the end of January
- Submit winter race program to the SA National Race Secretary for inclusion in their calendar publication by end of February
- Submit events program to the Editor of 'Ski Shooter' for publication

#### 1.1.2.2 Administration

- Maintain inventory of Championship medals and ribbons and ensure sufficient supply for the year. Reorder medallions as required from Persin Distributors (03) 9370 6895. Purchase ribbon for medallions –dark blue for Vic. Champs, gold or green for Aus. Champs, pale blue for NSW champs
- Forward medals as appropriate to State Race Secretaries.

#### 1.1.2.3 Results

- Receive results from State Race secretary and arrange publication
- Establish and maintain seedings and publish a seeding list
- Establish and maintain rankings and publish a ranking list
- At the end of the season, forward seeding and ranking lists to NCD as criteria for selection of Australian Teams

## 1.2 STATE RACE SECRETARY (SRS)

### 1.2.1 General

The State Race Secretary (SRS) is:

- Responsible to the State Association
- Appointed by the State Association

### 1.2.2 Duties and Time Line

#### 1.2.2.1 May

- Advise resort managers of events scheduled for their resort
- Advertise for officials for relevant events in SS, specifically: Chief of Race, Chief of Course and Chief of Range
- Advise NRS of championship medals requirements

#### 1.2.2.2 June

- Prepare, publish and arrange distribution of race documentation (race information, entry forms etc)
- Ensure that a Chief of Race has been appointed for each event scheduled
- Ensure supplies of all forms in the each event manual is adequate and reprint as required
- Ensure each Chief of Race has access to event manual

#### 1.2.2.3 One week before each event

- Notify resort management of upcoming event and advise contact name and number of Chief of Course for course preparation requirements
- Liaise with the event's Chief of Race and Chief of Course to ensure satisfactory preparations
- If Championship event, accept entries, set seedings, prepare draw and forward to Chief of Race
- Obtain championship medals if required and forward to Chief of Race

#### 1.2.2.4 After each event

- Ensure results have been forwarded to the NRS
- Accept entry fees and other monies from the Chief of Race and forward to the Treasurer

## 2 RACE PERSONNEL

### 2.1 CHIEF OF RACE (CoR)

#### 2.1.1 General

The Chief of Race (CoR) is appointed by the State Race Secretary and is the Chairman of the Race Committee and is responsible for the supervision, co-ordination and safe conduct of the event

#### 2.1.2 Duties

- Arrive no less than one (1) hour before zeroing
- Supervise setting-up
- After consultation with CoC, determine whether any course changes are required
- Post courses
- Accept entries (or late entries for championship events)
- Post draw including zeroing lanes
- Allocate people to perform all the duties listed and post list on the notice board
- Distribute bibs
- Conduct Race Briefing ten (10) minutes before race start
- Supervise calculation of results
- Post provisional results
- Call jury meeting if required
- Post official results
- Arrange presentations
- Supervise closing-down
- Forward results to national race secretary

## 2.2 CHIEF OF COURSE (CoC)

### 2.2.1 General

Responsible for the selection of the course which must correspond to Biathlon Rules and with guidelines from the Chief of Race.

### 2.2.2 Duties

- ❑ Track Cutting - Discuss arrangements with the Resort Management and track cutter. (eg. Mt Hotham Management and Greg O'Donahue or Colin Bertuch - track cutters).

Note: - For

State Championships - tracks should be cut one (1) day before events.

Australian Championships - tracks should be cut two (2) days before.

- ❑ Mark all tracks, including penalty loop with coloured flags (yellow, blue, red, green, black etc.)
- ❑ Ensure that Start, Finish and Crossover Points are flagged.
- ❑ Determine where controllers are required to check that correct course has been skied and where (*snow & air*) temperatures will be recorded.
- ❑ Arrange for drink stations as appropriate for individual events (where ski time may exceed one (1) hour) and brief drink stewards.
- ❑ Assign any Marshals required to direct racers and if necessary ensure alternative tracks for non-racers.
- ❑ Ensure "First Aid" is available should an accident occur and notify the Ski Patrol.
- ❑ Tracks and Areas to be inspected with the TD and modified and or repaired as required.
- ❑ Arrange for snow and air temperatures to be recorded and displayed on Notice Board at least every half-hour commencing two (2) hours prior to the start (*of the race*).
- ❑ Mark coaching lines at the start and end of the range.
- ❑ Collect all flags and markers after the race.



## 2.3 COURSE ASSISTANTS

### 2.3.1 General

One (1) to five (5) Course Assistants are required depending on the prevailing conditions.

### 2.3.2 General Duties:-

- ❑ Shovel snow to cover rocks, bare ground, banking, etc.
- ❑ Flag the course.
- ❑ Collect flags after the race(s).

#### 2.3.2.1.1 Track Marshals (May not be required)

- ❑ Allocated to direct competitors in areas of confusion regarding which track competitors should take.
- ❑ Allocated to direct non-competitors and to ensure that the public do not interfere with competitors and avoid dangerous situations.
- ❑ Marshals must know which competitor numbers are required to go on which tracks.

#### 2.3.2.2 Track Controllers (usually 2)

- ❑ Allocated for championship races to ensure competitors follow correct routes.
- ❑ Record race numbers of athletes as they pass and in the order they pass by.
- ❑ Prior to start record snow & air temperatures every half-hour commencing two (2) hours prior to start and *display* on notice board.

#### 2.3.2.3 Drink Stewards (2 per race is the preferred minimum number).

- ❑ Prepare drink to feed athletes (suggest Blackcurrant juice).
- ❑ Warm drink and keep in containers on morning of race.
- ❑ Have sufficient feeding cups.
- ❑ Obtain a list of left-handed athletes.
- ❑ Feed athletes by running beside them holding cup by top with out-stretched arm.
- ❑ Collect used cups and dispose of them in garbage bag or other environmentally Friendly manner.

## 2.4 CHIEF OF START / FINISH / RESULTS

### 2.4.1 General

- Responsible for the preparation and control of the *race* area under the general direction of the Chief of Course.
- Responsible for the direction and co-ordination of officials in the *race* area.

### 2.4.2 Duties

- Arranges an area for the Armourer to test trigger pressure prior to the start of the race and mark skis (championship events).
- Marshals, athletes and public in the race area.
- Checks that rifles are empty prior to the start and that skis are marked.
- Checks that rifles are empty at finish and that at least one (1) ski is marked.
- Collects race bibs and gives them to the CoR
- Notifies the Chief of Race when the last competitor finishes.
- Calculates the results of the race or event ( Penalty + Running Time - Time Out = Total Time ) together with the
- Finish Recorder
- Chief Lane Recorder
- Chief Penalty Loop Recorder (Sprint and Relay only).
- Hand results to CoR
- Ensure the area is cleared up (flags, etc. removed).
- For Relay Events:-
- Observe changeover area to ensure correct changeover occurs within the marked zone and competitors are touched.
- Observe for skating and non-skating zone at end of non-skating zone.

## 2.5 TIMEKEEPER

### 2.5.1 General

The Timekeeper's responsibilities are to assist the Chief of Start/Finish

### 2.5.2 Duties

- Assists in setting up *the start / finish area*.
- Keep two (2) stopwatches.
- Calls out time:-
  - At start:
    - At 10 min., 5 min., 1 min., 30 seconds, then for each competitor at 15, 10, 5, 4, 3, 2, 1 and zero seconds.
    - At finish for *each competitor*;
      - eg. 27 min 35 sees, 6, 7, 8, 9, 40, 1, (skier now passes by), 2, 3, etc.
- Assist in clearing the area after *racing*.

## 2.6 STARTER/ FINISH RECORDER

### 2.6.1 General

The Starter/Finish Recorder's responsibilities are to assist the Chief of Start/Finish.

### 2.6.2 Duties

- Assists in setting up *the race headquarters area*.
- Obtain a list of Competitors and Numbers.
- Ensure that the correct competitor starts on time (usually single *person* starts at one (1) minute intervals).
- Record the number of the athlete and the time of finishing as Timekeeper calls out the time.
- Assist with calculation of results.
- In Relay and Mass Start Events:-
  - Starts athletes.
  - Observes for skating in the non-skate zone at start of the non-skate zone

## 2.7 CHIEF OF RANGE / RANGE OFFICER (RO)

### 2.7.1 General

The Range Officer's responsibilities are to direct all activities on the range & maintain safety at all times.

The R.O. must ( \*\*possess a Shooters licence) , & be a current member of the ABA

### 2.7.2 Duties

- ❑ The setting up, supervision and safe conduct of the Range.
- ❑ Briefs all range officials, ie
  - Chief of Butts / Resetter
  - Chief Lane Recorder
  - Rifle Controller
  - Rifle Retriever
  - \*\*Armourer
  - Penalty Loop Recorders
- ❑ Make decisions as required, eg. closing lanes or targets, re-allocation of lanes to athletes as required.
- ❑ Record wind direction and velocity (approximate average at Range) each half-hour for two (2) hours prior to start and post on Notice Board.
- ❑ *Conduct a Safety Briefing* pre-race, commencing ten (10) to fifteen (15) minutes prior to start of zeroing.
- ❑ Act as Lane Allocator to athletes as they arrive at the firing point if required. (The Range is usually divided into two halves for most of a Race; the first half being for Prone shooting and the second half being for Standing shooting.)
- ❑ Gives Time-out & Time-in to Lane Recorder.

## 2.8 ARMOURER

2.8.1 General  
Responsible to Range officer,  
\*\*Must possess a shooters licence.

### 2.8.2 Duties

#### 2.8.2.1 During zeroing-

- Set-up equipment station.
- \*\*Check all rifle trigger pressures.
- Mark skis to be used in championship races.
- When a spare rifle is available, zero it, & load spare magazines.  
Hand this to rifle controller.

#### 2.8.2.2 During racing:-

- Check all malfunctions as required by range officer.
- \*\*Have spare ammunition in case required.
- Have tools for clearing jammed rifles, etc.
- Give time-out & time-in to Lane Recorder.

- 2.9 CHIEF OF BUTT / TARGET RESETTER
- 2.9.1 General  
Responsible for targets & resetting under the Range Officer.
- 2.9.2 Duties
- ❑ Co-ordinates work at the butts,
  - ❑ \*\*the erection of wind flags,
  - ❑ Ensures sufficient zero targets are placed in position,
  - ❑ \*\*Checks metal targets for correct function (lubricate and paint if required, unwind ropes, etc.)
  - ❑ Erect the safety ropes along the sides of the range *and ensures the all Perimeter safety ropes and signs are in place.*
  - ❑ (\*\*During competition, resets each target after athlete has left their lane,) & check lane recorder is clear on the score before resetting.
  - ❑ Report any target malfunction to the Range officer immediately.
- 2.10 RIFLE CONTROLLER
- 2.10.1 General  
Responsible for rifles left on the range area & allocation of Association rifles.  
\*\*Must possess a shooters licence.
- 2.10.2 Duties
- 2.10.2.1 One half hour prior to commencement of zeroing:-
- ❑ Set up rifle racks.
  - ❑ Mark rifles and place in racks.
  - ❑ Determine (from the Race Secretary):-  
Those who have hired a certain rifle.  
Those who have just trained on a certain rifle.  
Those who need a rifle.
- 2.10.2.2 One quarter hour prior to commencement of zeroing:
- ❑ Rifle allocation (Association rifles)
  - ❑ Issue rifles on the basis of the above plus:-  
Size of stock for person.  
\*\*Single shot for novices, M&WU14, M&W14  
\*\*Magazine for Seniors, M&W16 and older
  - ❑ If sharing rifles ensure:-  
Competitors sized up as equally in height as much as possible.  
Same sling length needed.  
\*\*Ensure same ammunition being used in the rifle(s).  
Each competitor has an armband &(\*\* magazines or block of ammo).
- 2.10.2.3 During Race
- ❑ Hands rifles to Competitors or to the Coach if (\*\*unlicensed) or novice.

- 2.11 RIFLE RETRIEVER
- 2.11.1 General-  
Responsible to rifle controller.  
\*\*Must possess a shooters licence.
- 2.11.2 Duties
- Retrieve rifles & (\*\*any ammunition) left by athletes on the mound, & put onto the racks as directed by the Rifle Controller.
  - \*\*Ensure all actions are open & magazine in chamber is empty before taking rifle from mound.
  - Work with & Assist Rifle Controller to set up & clean up after race.
- 2.12 CHIEF LANE RECORDER (CLR)
- 2.12.1 General  
Responsible for setting up mound area under direction of the Range Officer and supervising Lane Recording of shooting.
- 2.12.2 Duties
- 2.12.2.1 Pre race:-
- Erection of safety ropes around the perimeter of the mound and coaches area, to prevent access of unauthorised personnel.
  - Set up mound - firing point numbers are placed in position,
  - Mats are placed in position,
  - \*\*Association telescopes & tripods are placed in position,
  - Pack mound and make flat & smooth with snow scoop, shovels & rake.
  - \*\*Remove empty shells by raking before & after Zeroing, & between events.
  - Allocate Lane recorders to targets/lanes to record range penalties, according to the number of competitors & lane recorders available. Instruct as to how to record information.
- 2.12.2.2 During race: -
- Record rounds fired & hits for each competitor as they shoot.
  - Record time out & time in, as called by the Range Officer/Armourer,
  - Record any violations as seen, or called by the Range Officer/Armourer or other official.
- 2.12.2.3 Post race:-
- Collect all 'Range Score Sheets' & ensure any disputes are clearly recorded.
  - Assist in calculations.
  - Supervise cleaning up of mound area.

- 2.13 LANE OFFICIALS (Recorders)
- 2.13.1 General  
Responsible to Chief Lane Recorder 1-2 Lanes per recorder is ideal.
- 2.13.2 Duties
- ❑ Assist CLR to set up area of mound.
  - ❑ Record penalties shot on targets before they are reset.
  - ❑ Record any time out 1 time in, or violations seen or reported to you to record.
  - ❑ Assist CLR to clean area & put mound equipment away. Firing point numbers Mats
  - ❑ Association Telescopes & tripods Ropes or bunting.
- 2.14 PENALTY LOOP RECORDERS
- 2.14.1 General  
Responsible to Range Officer, for setting up the Penalty loops, & recording loops skied.
- 2.14.2 Duties
- 2.14.2.1 Pre race
- ❑ Prepare (pack) 150m and 75m penalty loops,
  - ❑ Clearly mark the entry and exit points,
  - ❑ Install inside flags/markers to designate the 150m and 75m penalty loops.
- 2.14.2.2 During race
- ❑ Penalty Loop Recorders are to be located at least 10 metres apart.
  - ❑ Shall note the number of PENALTY LOOPS completed by each racer.
- 2.14.2.3 Post race
- ❑ Will hand result sheets to Chief of Start/Finish/Results, & shall remove flags / markers.



- 2.15 TECHNICAL DELEGATE (Chief Referee)
- 2.15.1 General
  - Appointed by NRS, COR, & NCD.
  - Should be a qualified referee.
  - Works as adviser to Chief of Race & is Responsible to ABA committee for the safe & correct conduct of the competition.
  - Oversee preparation & intervene as necessary.
- 2.15.2 Duties
  - 2.15.2.1 Pre race
    - 2.15.2.1.1 Oversee preparation
    - 2.15.2.1.2 Check course with Chief of Race / Chief of Course
      - Tracks
      - Flags
      - Controllers/Marshals
      - Feeding
      - Start/Finish
    - 2.15.2.1.3 Check Range with Range Officer
      - Target operation
      - Rifle checks
      - Ski checks
      - Safety
    - 2.15.2.1.4 Jury Chairman
    - 2.15.2.1.5 Supervises Draw, checks eligibility as necessary, & rules on late entries.
  - 2.15.2.2 During Race
    - 2.15.2.2.1 Supervise any other referees.
      - Course referee
      - Start/finish referee
      - Range referee
    - 2.15.2.2.2 Record penalties against competitors.
    - 2.15.2.2.3 Oversee race conduct & intervene as necessary.

## 2.16 REFEREES

- 2.16.1 Referees are
- TD of race
  - International Referees
  - Chief of Race
  - Chief of Course
  - Chief of Start
  - Chief of Range

- 2.16.2 Duties  
It is the duty of each referee to arbitrate on any matter arising during the course of the event to ensure a fair and proper competition for all competitors

## 2.17 COACHES

- 2.17.1 General
- Responsible for assisting & Zeroing athletes, and where necessary be with them when shooting.
  - Must have a shooters licence
  - Should not be involved with race organisation during a race whenever possible.
- 2.17.2 Duties
- Coaches are required to be with Shooters when they are unlicensed or are Novices.
  - to assist athletes to zero their rifles
  - To advise athletes or assist in various ways.
  - May be required on the jury.

## 2.18 JURY

### 2.18.1 GENERAL

- Appointed prior to race (by CO Race, NRS, & NCD representing the coaches).
- 3-5 required
- Simple majority vote.

### 2.18.2 Composition:

- TD (is Chairman of jury),
- ABA Chairman,
- Chief of Race,
- TD 2<sup>nd</sup> or other referee,
- Coaches - 1 or more.

#### Note:

Any member of the Jury with an interest in the dispute must step down.

### 2.18.3 Duties

- Make decisions regarding change of race conditions, postponement, etc.
- Decide protests.

### 3 RANGE SAFETY AND SETTING-UP

#### 3.1 RULES FOR USE OF RANGE.

##### 3.1.1 Before range can be used: -

- There MUST be present a MEMBER of the Association who (\*\* holds a CURRENT FULL shooting licence). (*The armed forces may be exempted*)
- safety flags, bunting and warning signs shall be set up
- administrative office in the area shall be notified of intentions, and
- One member, as in (1) above, shall be designated as Range Officer.

##### 3.1.2 Range fees to be administered by the Equipment Officer.

##### 3.1.3 The Range Officer shall take responsibility for safety on range while shooting is in progress.

##### 3.1.4 If Range Officer has to leave the range while shooting is in progress, that officer may only do so after handing over to another fully licensed member.

##### 3.1.5 \*\*Adults should have a current shooting licence, but may shoot under supervision without one.

##### 3.1.6 \*\*Juniors must have a current "Junior Shooters Licence" (in Victoria) to shoot.

##### 3.1.7 \*\*Use of metal targets.

The use of metal targets shall be restricted to: -

- competitions,
- coaching sessions requiring metal targets, and
- training combinations (ski & shoot) by "experienced" racers

## 3.2 SET UP OF RANGE - ERECTION OF SIGNS, FLAGS AND ROPES

**The following safety devices must be installed prior to any shooting: -**

- 3.2.1 Flags are to (shall) be placed in the following places:-
  - Stop butt
  - Firing point
  - Adjacent to road
  
- 3.2.2 Signs (folding) indicating shooting in progress and normal track closed are to be located as indicated on diagram and must be opened to ensure notice is displayed.
  
- 3.2.3 Ropes or bunting shall be erected as indicated on diagram at the end of this chapter to prevent access to range by unauthorised personnel.

### 3.3 CLOSING DOWN RANGE

#### 3.3.1 Daily:-

##### 3.3.1.1 \*\* Paint metal targets,

##### 3.3.1.2 Remove:-

- red flags,
- \*\*paper target frames.
- wind flags,
- \*\*rifle racks,
- mats and numbers,
- \*\*telescopes, and
- course flags.

#### 3.3.2 End of Season: -

##### 3.3.2.1 As above, plus: -

- \*\* remove and store metal targets, ropes and signs.
- advise the Equipment Officer of any repairs and/or replacements required.

- 3.4 RANGE SAFETY BRIEFING
- 3.4.1 Rifles when not being carried by competitors must point towards the Stop Butt.
- 3.4.2 Loaded Magazines and (\*\*Single Rounds) can only be loaded into the Rifle whilst the Rifle points towards the Stop Butt and the skier has stopped moving at the Firing Point.
- 3.4.3 Firing must only take place when the Range has been DECLARED OPEN by the RANGE OFFICER
- 3.4.4 On the order “CEASE FIRE”, rifles are to be UNLOADED. (\*\*Where a rifle is carried, the rifle shall be placed on the competitor’s back) and the skier(s) shall step back from the mound. Where a rifle is not carried, whether or not it has a harness, the rifle shall be placed on the rifle stand (\*\*with the BREECH OPEN by a range official.)
- 3.4.5 During competition, in the event of a rifle malfunction, the competitor is to raise his/her hand to seek assistance from the range staff. “TIME OUT” may be allowed, depending on the decision of the Jury after the Event. The rifle may be substituted if a spare is available.
- 3.4.6 \*\* All rifles must be cleared of LIVE AMMUNITION prior to leaving the Range. In an Event, after the 5<sup>th</sup> shot has been fired, the skier may leave the range with an empty shell in the Breech. SKIING with a LIVE ROUND in the BREECH will AUTOMATICALLY result in DISQUALIFICATION.
- 3.4.7 Rifles are not at any time to be pointed or aimed at Personnel.
- 3.4.8 \*\* Rifles must be checked both prior to START and AFTER the FINISH by START/FINISH PERSONNEL.

## 3.5 ROAD RACES

### 3.5.1 Permits

A permit is required to hold any event on a Public Road where there are more than 30 entrants. Events may include any activity, eg, cycling, roller skiing, running, etc. Such permits require the agreement of Police, Local Government and the State Road Authority and will require a minimum of two months notice.

**In Victoria application permits and current guidelines are available from Road Safety Awareness Unit 039 247 5779. Level 3 building C, 637 Flinders St Melbourne**



## 3.6 RANGE SAFETY PLAN

## 4 RACE CONDITIONS

### 4.1 ENTRIES

4.1.1 Determined by National Race Secretary and Chief of Race.

4.1.2 Details to be advertised in advance and changes posted on notice board at range on race day.

### 4.2 CHANGES TO LENGTH OF RACE

4.2.1 Changes to the length of a race may be made at the discretion of the Chief of Race or Jury.

4.2.2 Non championship races should be shortened:-

- early in the season, and
- on days of extremely bad conditions (weather and/or snow).

### 4.3 MEMBERSHIP

For championship races a competitor must be a member of the ABA or *affiliated Biathlon Club* unless entering a novice event.

### 4.4 \*\* CARRYING RIFLES \*\*\*

4.4.1 \*\* ABA rifles shall not be carried unless permission is given by the Committee, in writing and a new *hire contract entered into*.

4.4.2 \*\*\*"A" grade *competitors* must carry rifles.

4.4.3 \*\*Junior *competitors* must not carry rifles unless they have turned 18 years *and* hold a full shooters licence.

4.4.4 \*\* The carrying of a rifle by other grades of competitor is optional.

### 4.5 \*\* LOADING

M/WU14", and Novice *competitors* must load rounds individually.

### 4.6 AGE CLASSES

4.6.1 Ages are taken as the age of a competitor on 31<sup>st</sup> December of the year preceding the year of competition.

4.6.2 Masters are 30 and over who are not currently seeded in XC or Biathlon, & do not wish to race B grade distance, & will do M16/W16 courses.

4.6.3 Veterans are 50 and over who do not want to race B grade distance, or Masters, & will do M/WU14 courses.

#### 4.7 NOVICES

- 4.7.1 A Novice is a person who has never been "Seeded" in ASF cross-country skiing, and has not *competed* in Biathlon before.
- 4.7.2 May race the whole of one season as a novice.
- 4.7.3 If raced a maximum of once in any previous season in Biathlon to a maximum of six (6) races over the last five (5) years or more.

#### 4.8 ZEROING FOR RACES

- 4.8.1 Ensure all flags, signs and ropes are erected.
- 4.8.2 Ensure that sufficient paper (Zero) targets are up.
- 4.8.3 Metal targets shall not be fired on during zeroing,
- 4.8.4 Entries must be made and targets allocated prior to zeroing.
- 4.8.5 The Range Officer will declare "Range Open" and instruct competitors to shoot on zeroing targets.
- 4.8.6 The Range Officer will declare "Range Closed at the completion of 45 minutes practice";
- 4.8.7 \*\* Rifles shall be cleared prior to leaving the mound.
- 4.8.8 \*\* The Range Officer shall arrange for the removal of paper targets.

#### 4.9 RESTS

- 4.9.1 Novices and M/WU14 are the only class permitted to use a rest.
- 4.9.2 Should a rifle sling or arm band not fit, the competitor must hold the rifle unsupported.

#### 4.10 PENALTIES

M16, W16 & younger classes, plus Masters & Veterans carry 30 second or 75 M loop penalties *for shots missed, all other classes carry 60 second or 150 m loop penalties.*

#### 4.11 TARGETS

Novices are the only ones who may shoot on the whole aiming mark in the prone position.

#### 4.12 STANDING

Only Novices, M/WU14 and M/W14 are exempt from shooting standing.

- 4.13            RANKING
- This will be based on percentage behind the average of the top 2 placegetters. Races used in determining ranking will include State and National Title races only unless another is designated in a particular year.
- 4.14            SEEDING
- 4.14.1          Juniors  
Age as at 31 December of the preceding year
- 4.14.2          Seniors  
B grade to A grade as soon as any of these results are gained:
- 2 wins in B grade or
  - results within n% of the average of the first 2 placegetters in B grade or
  - 2 Sprint results carrying a rifle within n% of the average of the first 2 placegetters in A grade.
- 4.14.3          Maintenance of seeding requires at least one result every 2 years within the required n%
- 4.14.4          n% is calculated on a formula to be reviewed each year, according to the depth of field competing in the previous year in each grade  
                    In 2000 set as (n= Men 5%, Women 10%)
- 4.15            BIATHLON CUP
- To be competed for each year using the results of the Senior Ranking list, in men's and women's races
- 4.16            UPGRADING OUTSIDE SEEDING RULES
- 4.16.1          Distance, Sprint and Pursuit races  
Includes seniors upgrading form B grade to A grade and juniors upgrading from a lower age class to a higher age class or to senior grade
- 4.16.1.1        Application in Advance  
For all competitions, athletes may apply for upgrading. The application must be in writing at least 3 weeks in advance, to the ABA committee stating reasons for the request. Such requests will be referred to the coaching committee for recommendation
- 4.16.1.2        On Race Day  
The jury may consider upgrades where only one athlete has entered a particular class. Requests must be in writing at least 1 hour prior to race start

The jury may upgrade an athlete into a higher class where there is another athlete. In this situation consideration should be given to shortening the distance of the race to between that for each class. However, any shortening of the distance must not impact on the athlete in the higher class with regard to qualification for subsequent seeding

4.16.1.3 Recommendations that will usually be adhered to:

- Upgrade will normally only be by one class
- W14 may upgrade to W16 but would not race a greater distance
- Upgrade of Junior to Senior class would normally only be allowed in a Sprint event, and would preclude the athlete from any Pursuit if held on consecutive days, to minimise the risk of overtraining

4.16.2 Fun Relays and Team events

Athletes may nominate to race a greater distance (higher class) but will be subject to ratification by the jury

## 5 RACE DETAILS

### 5.1 Distances of Loops and Courses (**applicable to Mt Hotham only**)

#### 5.1.1 Standard Loops

Green (Green trail)	G	0.86km
Pink (Red Trail)	P	0.77km
White (Blue Trail)	W	1.79km
Brown (Range to Wire Plain)	Br	2.40km
Orange (Range to Race Link)	O	3.78km
Range	Ra	0.19km

#### 5.1.2 Standard Race Courses

Green	G	0.86km
Pink	P	0.77km
Red (G+P)	R	1.59km
Blue (G+W)	B	2.61km
Black (G+Br)	Bl	3.22km
Yellow (G+O)	Y	4.60km

5.1.3 Since the Green Loop often wears out quickly, or frequently has insufficient snow, the use of this loop should be restricted to those requiring a figure-8 course.

5.1.4 The Orange Loop, which turns around at Wire Plain, has not been measured accurately with a steel tape.

5.1.5 Because the snow conditions in Australia are particularly difficult, the ABA is reviewing the possibility of shortening Championship Races by 5% and other races by 10% to more closely equate with the time taken by similar standard athletes in events in Europe.

5.1.6 Championship race distances, shooting position, target and penalties listed under **5.3 onwards** are those recommended under I.B.U guidelines .

Non-championship race formats are at the discretion of Chief of Race and Jury. Those listed are only recommendations.



### 5.3 CHAMPIONSHIP – SPRINT

Class		Distance	Courses	Shoot pos	Penalties	Targets
Men	A	9.82	B Y B	P S	150m	Normal
	B					
	EJ					
Women	A	6.81	B B R	P S	150m	Normal
	B					
	EJ					
Men	Masters	5.79	R B R	P S	75m	Normal
Boys	M16					
Women	Masters	3.94	R R G	P S	75m	Normal
Girls	W16					
Boys	M14			P P		
Girls	W14					
Men	Veterans	2.58	G G G	P S	75m	Normal
Women	Veterans					
Boys	MU14			P P		Stand
Girls	MU14	2.31	P P P	P P		Stand

### 5.4 NON-CHAMPIONSHIP SPRINT – As above adding

Men	Novice	2.31	P P P	P P	75m	Lge/Stand
Women	Novice	2.31	P P P	P P	75m	Lge/Stand

### 5.5 CHAMPIONSHIP – DISTANCE

Class		Distance	Courses	Shoot pos	Penalties	Targets
Men	A	19.02	B Y Y Y B	P S P S	1 min	Normal
Men	B	14.27	B B I B B I B	P S P S	1 min	Normal
	EJ					
Women	A					
	B	9.99	R B R B R	P S P S	1 min	Normal
	EJ					
Men	Masters	7.80	G B G B G	P S P S	30 Secs	Normal
Boys	M16	7.38	R B R R	P S P	30 secs	Normal
Women	Masters	5.76	G R G R G	P S P S	30 Secs	Normal
Boys	M14	6.65	R B R G	P P P	30 secs	Normal
Girls	W16	4.90	R G R G	P S P	30 Secs	Normal
Girls	W14		R G R G	P P P	30 secs	Normal
Men	Veterans	4.30	G G G G G	P S P S	30 secs	Normal
Women	Veterans					
Boys	MU14	3.44	G G G G	P P P	30 secs	Stand
Girls	MU14					



5.6 NON-CHAMPIONSHIP DISTANCE – As above adding

Men	Novice	3.08	P P P P	P P P	30 secs	Lge/Stand
Women	Novice	3.08	P P P P	P P P	30 secs	Lge/Stand

5.7 CHAMPIONSHIP – PURSUIT

Class		Distance	Courses	Shoot pos	Penalties	Targets
Men	A	12.23	R B I B B I R	P P S S	150m	Normal
Men	B					
	EJ					
Women	A	9.99	R B R B R	P P S S	150m	Normal
	B					
	EJ					
Men	Masters	6.49	G R R R G	P P S S	75m	Normal
Boys	M16	6.65	R B R G	P P S	75m	Normal
Women	Masters	4.30	G G G G G	P P S S	75m	Normal
Boys	M14	5.63	R R R G	P P P	75m	Normal
Girls	W16	3.44	G G G G	P P S	75m	Normal
Girls	W14			P P P	75m	Normal
Men	Veterans	3.85	P P P P P	P P S S	75m	Normal
Women	Veterans					
Boys	MU14	3.08	P P P P	P P P	75m	Stand
Girls	MU14					

5.8 NON-CHAMPIONSHIP PURSUIT – As above adding

Men	Novice	3.08	P P P P	P P P	30 secs	Lge/Stand
Women	Novice	3.08	P P P P	P P P	30 secs	Lge/Stand

5.9 NON-CHAMPIONSHIP – RELAY

Class		Distance	Courses	Shoot pos	Penalties	Targets
Men	A	4 x 7.83	B B B	P S	150m	Normal
	B					
	EJ					
Women	A	4 x 5.79	R B R	P S	150m	Normal
	B					
	EJ					
Men	Masters	4 x 4.77	R R R	P S	75m	Normal
Boys	M16					
Women	Masters	4 x 2.58	G G G	P S	75m	Normal
Girls	W16					
Boys	M14			P P		

Girls	W14					
Men	Veterans	4 x 2.31	P P P	P S	75m	Normal
Women	Veterans					
Boys	MU14			P P		Stand
Girls	MU14			P P		Stand
Men	Novice					Lge/Stand
Women	Novice					Lge/Stand

### 5.10 MODIFIED SPRINT

Class		Distance	Courses	Shoot pos	Penalties	Targets
Men	A	8.44	B B I B	P S	150m	Normal
	B					
	EJ					
Women	A	5.79	R B R	P S	150m	Normal
	B					
	EJ					
Men	Masters	4.77	R R R	P S	75m	Normal
Boys	M16					
Women	Masters	2.58	G G G	P S	75m	Normal
Girls	W16					
Boys	M14			P P		
Girls	W14					
Men	Veterans	2.31	P P P	P S	75m	Normal
Women	Veterans					
Boys	MU14			P P		Stand
Girls	MU14			P P		Stand
Men	Novice					Lge/Stand
Women	Novice					Lge/Stand

### 5.11 MODIFIED DISTANCE

Class		Distance	Courses	Shoot pos	Penalties	Targets
Men	A	14.27	B B I B B I B	P S P S	1 min	Normal
Men	B	9.99	R B R B R	P S P S	1 min	Normal
	EJ					
Women	A					
	B	7.80	G B G B G	P S P S	1 min	Normal
	EJ					
Men	Masters	5.76	G R G R G	P S P S	30 Secs	Normal
Boys	M16	6.65	R B R G	P S P	30 secs	Normal
Women	Masters	4.30	G G G G G	P S P S	30 Secs	Normal
Boys	M14	5.63	R R R G	P P P	30 secs	Normal
Girls	W16	3.44	G G G G	P S P	30 Secs	Normal
Girls	W14			P P P	30 secs	Normal
Men	Veterans	3.85	P P P P P	P S P S	30 secs	Normal
Women	Veterans					
Boys	MU14	3.08	P P P P	P P P	30 secs	Stand
Girls	MU14					
Men	Novice	3.08	P P P P	P P P	30 secs	Lge/Stand
Women	Novice					

**6.1 ADVERTISEMENT FOR RACE OFFICIALS**

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**RACE OFFICIALS – .....SEASON**

Applications are requested for race officials for the coming season. With nine (9) race days planned each member is requested to make themselves available to act in an official capacity on three (3) occasions, as well as helping out when requested.

Information on the duties of each official will be available. It is an excellent way to learn about your sport and your organisation.

Please fill in the days you can help.

<b>Position</b>	<b>Date</b>	<b>_/7</b>	<b>_/7</b>	<b>_/7</b>	<b>_/7</b>	<b>_/8</b>	<b>_/8</b>	<b>_/8</b>	<b>_/8</b>	<b>_/9</b>
Chief of Race										
Chief of Course										
Course Assistants										
Chief of Range / Range Officer										
Chief of Start / Finish / Results										
Chief Timekeeper										
Recorders										
** Range Assistants (must have licence)										
Non specified volunteers										

Note:

The first three (3) positions may be held by participants in the race.

**THE MORE THAT IS ORGANISED IN ADVANCE, THE LESS TIME LOST ON THE DAY!!**

Please send completed application form to the National Race Secretary.

Name: .....  
 (Please print & sign)

## 6.2 RACE OFFICIALS

<b>EVENT :</b>	<b>DATE :</b>
Chief of Race	
Chief of Course	
Chief of Range / Range Officer	
Chief of Start/ Finish/ Results/ Entries	
Chief Timekeeper	
Starter	
Finish (Time)	
Finish (Order)	
Chief Lane Recorder	
Lane Official / Recorder	
Lane Official / Recorder	
Lane Official / Recorder	
Armourer	
Chief of Butts	
Target Resetter	
Target Resetter	
Rifle Controller	
Penalty Loop Recorder	
Penalty Loop Recorder	
Technical Delegate/ Referee	
Rifle Retriever	

Course assistants, incl. marshals/ drink/track assistance as required.	
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## 6.3 BIATHLON RACE ENTRY FORM

**EVENT** .....

**DATE** .....

**NAME** .....

**ADDRESS** .....

.....

.....

**DATE OF BIRTH** .....

**SHOOTERS LICENCE NO.**.....

**PLEASE CIRCLE AGE GROUP/CLASS**

AGE AS AT 31 DECEMBER LAST

Men	U14	14	16	18	A	B	Masters	Veterans	Novice
Women	U14	14	16	18	A	B	Masters	Veterans	Novice

### ENTRY FEE INCLUDING GST

JUNIORS AND FULL TIME STUDENTS UNDER 25 YRS - \$5.50

SENIORS - \$11.00

### DECLARATION

In consideration of this application being accepted, I, the signatory below, intending to be legally bound hereby for myself, my heirs, executors and administrators, waive and release any and all rights and claims for damages I may have against the Race Officials, Resort Management, Volunteers and Sponsors resulting from involvement with this event. I agree to abide by the rules of the race.

**SIGNATURE** .....

**DATE** .....

**SIGNATURE OF PARENT / GUARDIAN** .....

(if under 18yrs)

**6.4 ENTRY / START LIST**

<b>BIB NUMBER</b>	<b>CLASS</b>	<b>NAME</b>	<b>ZEROING LANE</b>	<b>START TIME</b>
				<b>1.00</b>
				<b>2.00</b>
				<b>3.00</b>
				<b>4.00</b>
				<b>5.00</b>
				<b>6.00</b>
				<b>7.00</b>
				<b>8.00</b>
				<b>9.00</b>
				<b>10.00</b>
				<b>11.00</b>
				<b>12.00</b>
				<b>13.00</b>
				<b>14.00</b>
				<b>15.00</b>
				<b>16.00</b>
				<b>17.00</b>
				<b>18.00</b>
				<b>19.00</b>
				<b>20.00</b>



**6.5 SKI CHECK**

<b>BIB NUMBER</b>	<b>NAME</b>	<b>CHECK</b>

**6.6**

**RIFLE CHECK**

<b>BIB NUMBER</b>	<b>NAME</b>	<b>CHECK</b>

<b>6.7 TIME OUT</b>				
<b>BIB NUMBER</b>	<b>LANE NUMBER</b>	<b>TIME OUT</b>	<b>TIME IN</b>	<b>ELAPSED TIME</b>

### 6.8 PENALTY LOOP RECORD

6.8 PENALTY LOOP RECORD							

**6.9****FINISH ORDER – BIB NUMBER**


<b>6.10 FINISH ORDER - TIME</b>							



6.12

**BIATHLON RANGE SCORE SHEET**

Bib Number	Lane Number	P or S	Target Scores (misses)					Penalties	Remarks
			1	2	3	4	5	Total	

Event.....Date.....



**6.13 BIATHLON RESULT SHEET**

Start Number	Class	Name	Start time	Finish Time	Skiing time	Penalties					Time Out	Total time	Place
						P	S	P	S	T			

