

# REGISTRATION

**Notice of Intent to Participate at Events:**

**There are two separate notices which must be given - registration (by **number** and by **name**) and entry**

**OWG: as set by IOC**

**WCH,Y/ JWCH: **2 months** / **14 days****

**WC: **14 days****

**Canadians: **1 month** / **7 days****

## ***EXAMPLE WC EVENT PROGRAM***

**This example is based on a WC event with Individual, Sprint and Relay competitions.**

**Mon** Team arrival. Accreditation.

**Tue** Team arrival.

0900 - 1500: Unofficial Training - Men and Women.

1900 - Team Captains meeting. Election of all Juries,  
Preliminary examination of equipment

**Wed** 0900 - 1200: Official Training - Men.

1200 - 1500: Official Training - Women.

1600 - Team Captains meeting, draws for Individuals

1900 - Reception for team leaders and coaches.

**Thu** 0900 - Opening ceremony at stadium (can be held Wed )

1000 - Men's 20 km Individual competition.

1300 - Women's 15 km Individual competition.

1900 - Social/cultural function - all.

**Fri** 0900 - 1200: Official Training - Men.

1200 - 1500: Official Training - Women.

1600 - Team Captains meeting. Draws - Sprints and  
Relays

**Sat** 1000 - Men's 10 km Sprint competition.

1300 - Women's 7.5 km Sprint competition.

1900 - Awards ceremony and social function.

**Sun** 1000 - Men's 4 x 7.5 km Relay competition.

1230 - Relay awards ceremony - Men.

1300 - Women's 4 x 6 km Relay competition.

1530 - Relay awards ceremony - Women.

Teams depart.

# **EVENT LOGISTICS**

- **Transport**
- **Accommodation, Meals**
- **Accreditation, Security**
- **Medical (and doping control)**
- **Marketing, Public Relations**
- **VIPs, Hosting, Interpreting**
- **Volunteers**

# TRANSPORT

- **Airport to/ from hotel**
- **Hotels to/ from stadium**
- **Organizational transport**
- **Team vans (rental) or shuttle bus system?**
- **Ensure sufficient vehicles and parking**
- **Ensure all timings are considered including early wax technicians etc.**
- **Have reserve transport for the unexpected**

# **ACCOMMODATION AND MEALS**

- **Ensure full prices are given in invitation, including tax when dealing with other nations**
- **Ensure restaurants open at the published times and meal standards are good**
- **Ensure room standards - multiple occupancy is OK if teams agree - usually at lower cost**

# **ACCREDITATION AND SECURITY**

- **Accreditation is needed for access control and gives you the required team info**
- **Ensure good flow in reception/ accreditation - don't keep teams waiting**
- **Ensure security in hotels and team huts**

# **MEDICAL AND DOPING CONTROL**

- **Ensure medical coverage at stadium and course - including teams, officials and spectators**
- **Make a trails evacuation plan, including over-snow vehicle and casualty sled**
- **Follow all required doping control rules and ensure high standards at control clinic**

# **MARKETING AND MEDIA**

- **Recruit people who know how to market, find sponsors and fund-raise**
- **Assign and train officials as media liaison persons**
- **Ensure good media hospitality**
- **Plan press conferences carefully**
- **Have a media centre at the stadium**



# **VIPs, HOSTING AND INTERPRETERS**

- **Assign and train VIP hosts**
- **Identify VIPs in advance before the event**
- **Have a VIP space at the stadium if possible**
- **Recruit and train competent interpreters, and ensure that they know Biathlon terminology**
- **Assign team attaches if possible**

# **VOLUNTEERS**

- **Start recruiting and training volunteers well in advance of a major event**
- **Ensure senior volunteers get all necessary training and experience - including leadership training**
- **Look after the welfare of volunteers - they are your most valuable resource - ensure transport and meal plans work**
- **Have an awards system and social events, etc.**
- **Assign a Volunteer Coordinator and keep a database of all volunteers**

# **PREPARATIONS FOR A COMPETITION**

- **Programs - Official/ Unofficial Training, Facility Preparations**
- **Team Captains Meetings, Entries and Draws**
- **Zeroing**
- **Equipment Checks and Use of Measuring Devices**

## ***EXAMPLE OFFICIAL TRAINING DAY***

**This example is based on a WC Official Training day preceding an Individual competitions day with start times of Men - 1000 hrs and Women - 1300 hrs. The facility must be prepared as for the competitions.**

- 0900 - Range opens for Men, assigned lanes, paper targets only
  - Course opens for Men, prepared and marked as for the competition.**
- 0925 - Range closes, change of paper targets**
- 0930 - Range re-opens, free choice of lanes, metal and paper targets**
- 1150 - Range closes, prepare paper targets for Women**
- 1200 - Course closes for Men
  - Course is changed and marked to Women's configuration
  - Course opens for Women
  - Range opens for Women, assigned lanes, paper targets only**
- 1225 - Range closes, change of paper targets**
- 1230 - Range re-opens, free choice of lanes, metal and paper targets**
- 1500 - Range, course close, training day ends.**

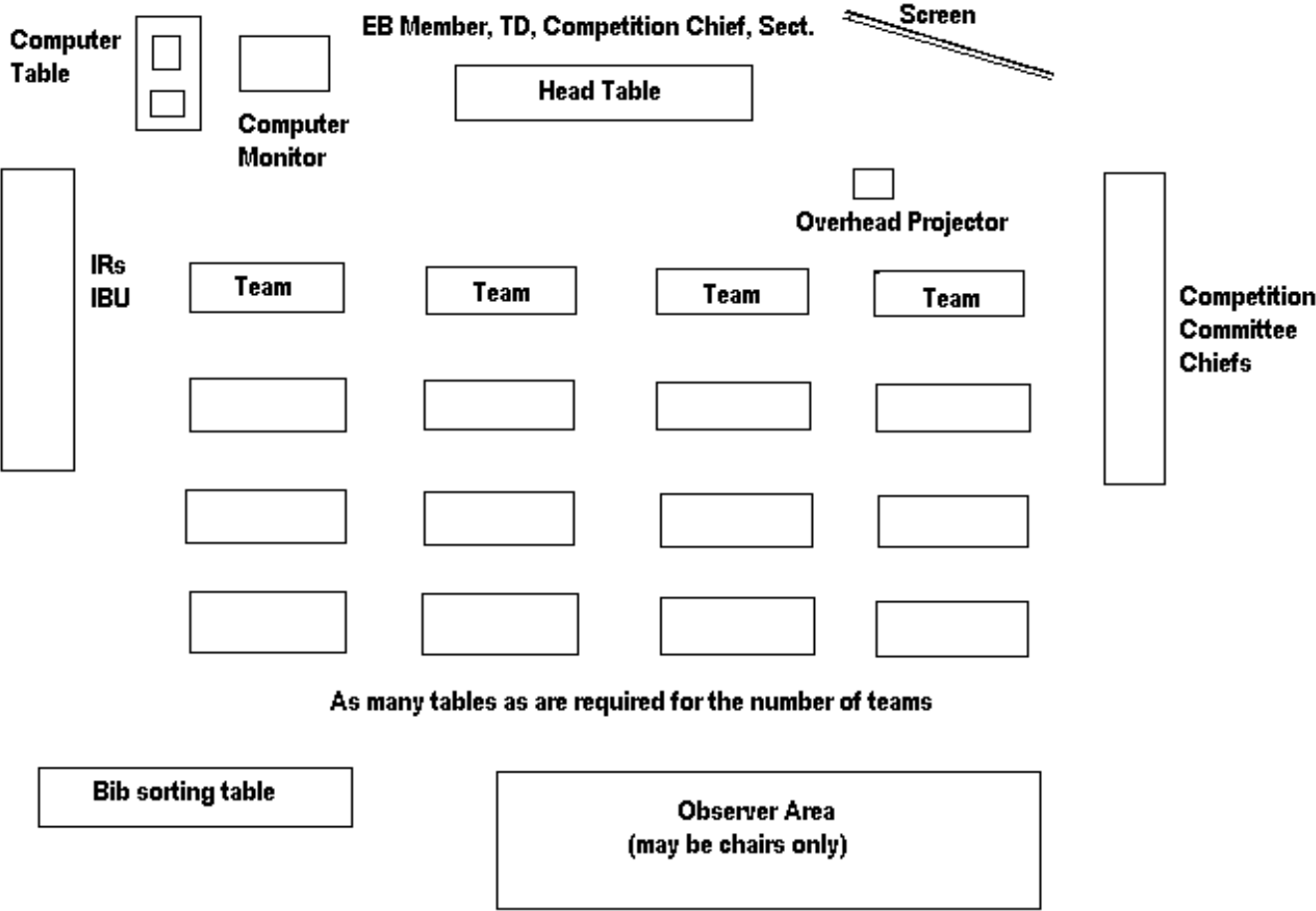
# **TEAM CAPTAINS MEETING ATTENDANCE**

- **The officials IBU EB representative (senior Biathlon Canada/ USBA representative)**
- **The TD and IRs (National Referees)**
- **All Competition and Appeal Jury members**
- **At least one representative from each participating team**
- **The Competition Chief**
- **The Chiefs of Course, Range, Timing, Stadium and the Competition Secretary or their representatives**
- **The necessary meeting support staff and interpreters, if required.**

# **TEAM CAPTAINS MEETING AGENDA**

- **Call to order (introductions at first meeting)**
- **Roll call of nations/ teams**
- **Election of Juries (first meeting)**
- **Draws**
- **Technical briefing for the next competitions**
- **TD's comments**
- **Weather report**
- **Other business, questions**
- **Adjournment**

# ARRANGEMENT FOR TEAM CAPTAINS MEETING







# ENTRY

Notice of competitor or team being entered to start in a specific competition, must be in writing, at least **two hours** before draw for Individual and Sprint **at WC events** and **four hours for all other events**. Entry for team participation in the Relay, in all events, must be made not later than four hours before the team captains meeting for the competition or the draw, as applicable. Names of Relay competitors in start order must be submitted by 1600 hrs of the day before the Relay competition.

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

# **THE DRAW**

**Assignment of start numbers for the Individual, Sprint and Relay competitions by random draw, manually or computer. The intent is a fair spreading of the members of each team throughout the field, for weather and snow conditions. The draw must be done 15 - 24 hours before the competition.**

**For the Individual and Sprint, competitors are placed into draw groups by their team captains, normally one in each. Number of draw groups is normally four but if the number of competitors is 60 or less: 3, and 40 or less: 2. Special rules apply to more or less competitors than draw groups.**

**The Relay draw assigns the start track and shooting lane for the team and does not necessarily have to be done within the stipulated times.**

# ZEROING

- **Sighting- in of rifles just before the competition**
- **Time allocation must be 45 minutes, normally 0900 hrs to 0950 hrs - with a five minute target change at 0925. Time period may be shortened for some competition types**
- **Each team has at least one paper target with 5 targets**
- **Coach scopes each team member onto target, usually by radio.**
- **Athletes ski a short loop around back of range during zeroing**

# **EQUIPMENT CONTROL**

## **Start Control Inspection**

**At least 15 minutes before his/ her start time, competitor is responsible, cannot start without inspection**

- **wearing his/ her start number;**
- **rifle is safety checked, weight, trigger resistance, dimensions and shape, advertising, serial number is recorded, rifle is marked**
- **skis and poles are checked, skis marked**
- **Clothing, other equipment inspected for correctness, advertising**

## **Final Check 1 to 2 Minutes to Start**

- **start number, advertising**
- **open and close bolt, no live round in chamber or magazine**

## **Finish Control**

- **no live round in chamber or inserted magazine**
- **trigger resistance (500 gm), normally a spot check as set by TD**
- **skis and poles at least one ski marked**

# **LESSON 6**

## ***Operative Competition Rules***

**Aim: To familiarize you with the operative competition rules and to practice their use**

- **Reasons for Rules**
- **Use of the Biathlon Canada Handbook and the IBU Rules**
- **Equipment and Advertising Rules**
- **Start Rules**
- **Skiing Rules**
- **Shooting Rules**
- **Finish and Timing Rules**
- **Penalties and Protests**

# **REASONS FOR THE IBU EVENT AND COMPETITION RULES**

- **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**

# **REASONS FOR THE IBU EVENT AND COMPETITION RULES**

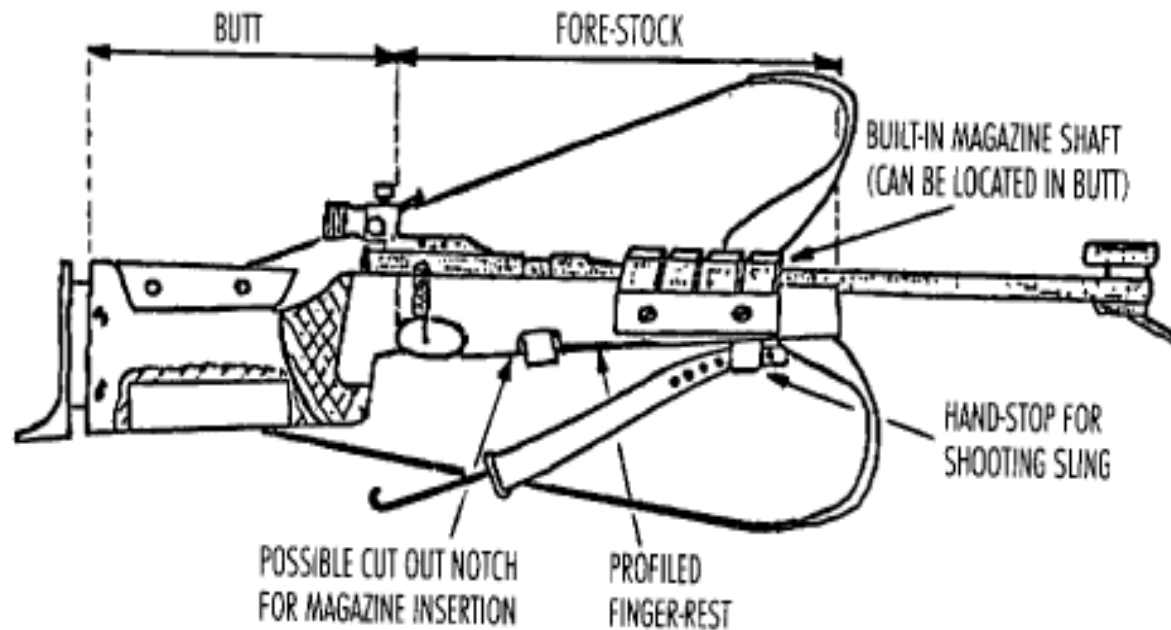
- **to protect the nature and character of Biathlon from frivolous and ill-considered changes**
- **to prevent unacceptable behavior such as doping and gross commercialism in the sport**
- **to protect the organizers of Biathlon competitions from unreasonable demands, and**
- **to increase the attractiveness and popularity of Biathlon and to enhance the development of the sport**

# **EQUIPMENT AND ADVERTISING RULES**

- **IBU follows FIS rules for ski equipment and advertising**
- **General advertising rules, general ski equipment rules and specific rifle rules are given in Annex A of IBU Event and Competition Rules**
- **Specific advertising rules are given in the International Biathlon Calendar and are updated annually**
- **There are no advertising rules for Biathlon Canada events**
- **Only 60 sq cm of advertising is allowed at the Canada Winter Games**



# BIATHLON RIFLE COMPONENTS



# **RIFLE SPECIFICATIONS 1**

- 1. Distance from center- line of barrel to bottom edge of forestock, including trigger guard and magazine, not to exceed 120 mm.**
- 2. Thickness of cheek- piece, measured from the center- line of the barrel, must not exceed 40 mm.**
- 3. No special hand supports, grooves no deeper than 2 mm, sling handstop not to be used as hand support.**
- 4. Cutout notch for magazine ok but not as support. No lateral protrusion allowed on forestock.**
- 5. Folding stock is not permitted.**
- 6. No optics in sights.**
- 7. Calibre 5.6 mm (.22 in),**
- 8. Trigger resistance minimum 500 gm.**

# **RIFLE SPECIFICATIONS 2**

- 9. Trigger must be surrounded by a rigid, closed trigger guard.**
- 10. Sling is permitted and must have a carrying harness.**
- 11. Minimum weight 3.5 kg, excluding ammo and magazines.**
- 12. Magazines must not hold more than 5 rounds.**
- 13. Advertising must conform with rules, IBU area.**
- 14. Action must not be automatic or semi- automatic.**
- 15. Ammunition: .22 in Long Rifle, rim- fire, uniform substance of lead or similar soft material, maximum muzzle velocity 380 m/ s**



# **START TYPES AND INTERVALS**

**There are four different types of start:**

- **single**
- **group**
- **pursuit**
- **simultaneous**

**Two standard start intervals**

- **1 minute**
- **30 seconds**

**45 seconds is also permitted; TD decides in consultation with the Organizer.**

# START REGULATIONS

- **Individual: Single start**
- **Sprint: Single or group start**
- **Pursuit: no standard start interval, time behind winner from qualifying competition**
  - **Sprint used as qualifying: actual time back**
  - **Individual used as qualifying: half of time back**
- **Mass: Simultaneous, all competitors**
- **Relay: Simultaneous for first runners, hand-over tag for rest**

# **START METHODS AND SIGNALS FOR INDIVIDUAL AND SPRINT**

## **Manual Start**

- **Both feet behind start line**
- **Start at time listed in start list**
- **Starter says READY - 10 seconds, and then 5, 4, 3, 2, 1, GO. Early starts will be stopped, late starts normally count against the competitor**

## **Electronic Start Gate**

- **Stand behind gate**
- **Start clock will count down from 30 seconds and starts to beep at 3 seconds before start, long beep at 0. Competitor is allowed to start from 3 seconds before to 3 seconds after listed start time.**

## BIATHLON COMPETITIONS WIND CHILL - TEMPERATURE EQUIVALENTS

### WIND SPEED IN KM/H

TEMP C	10	15	20	25	30	35	40	45	50
0	- 3	- 5	- 8	-10	-11	-13	-14	-14	-15
- 1	- 4	- 6	- 9	-11	-12	-14	-15	-16	-17
- 2	- 5	- 7	- 9	-13	-14	-15	-17	-18	-18
- 3	- 6	- 8	-11	-14	-15	-16	-18	-19	-19
- 4	- 7	-10	-12	-15	-16	-18	-19	-20	-21
- 5	- 8	-11	-13	-16	-18	-19	-21	-22	-22
- 6	- 9	-12	-14	-18	-19	-20	-22	-23	-24
- 7	-10	-13	-15	-19	-20	-22	-24	-24	-25
- 8	-11	-14	-17	-20	-22	-23	-25	-26	-27
- 9	-12	-15	-18	-22	-23	-25	-27	-27	-28
-10	-13	-16	-19	-23	-24	-26	-28	-29	-30
-11	-14	-18	-20	-24	-26	-27	-29	-30	-31
-12	-15	-19	-22	-26	-27	-29	-31	-32	-33
-13	-17	-20	-23	-27	-28	-30	-32	-33	-34
-14	-18	-21	-24	-28	-30	-31	-34	-35	-36
-15	-19	-22	-25	-29	-31	-33	-35	-36	-37
-16	-20	-23	-27	-31	-32	-34	-36	-37	-38
-17	-21	-25	-28	-32	-34	-36	-38	-39	-40
-18	-22	-26	-29	-33	-35	-37	-39	-40	-41
-19	-23	-27	-30	-35	-36	-38	-41	-42	-43
-20	-24	-28	-32	-36	-38	-40	-42	-43	-44

### NOTES

1. This is only a guide - decision to start or not will be made by the TD, Jury and Competition Doctor.
2. Top shaded line is the -20 degree Celsius equivalent boundary.
3. Bottom shaded area indicates that exposed flesh freezes in one minute.
4. Wind speed is to be measured at height of 1.5 m on the range.
5. Temperature is measured at 1.5 m at the coldest competition area.



# **SKIING REGULATIONS**

## **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.**

# **SPECIFIC SKIING RULES**

- **Individual**
- **Sprint**
- **Pursuit**
- **Mass Start**
- **Relay**

# **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 at Table 1 and its notes shall apply for shooting at all IBU competitions.**

# SHOOTING

**Individual: P, S, P, S**

**Sprint: P, S**

**Pursuit: P, P, S, S**

**Mass Start: P, P, S, S**

**Relay: P, S (3 spare rounds)**

# ***SHOOTING SAFETY REGULATIONS***

General

Loading and Unloading

Safety check after  
shooting

Aimed shots

Removal of rifle on the  
range

Safety at the finish

# **FINISH AND TIMING RULES**

## **Moment of Finish**

- **Manual Timing:** when one or both feet cross the finish line
- **Electronic Timing:** when the beam between the photo- sensitive cells is broken

## **Competition Time**

**The ranking of competitors in a competition is based on the competition time. In the Individual competition it is the time from start to finish plus 1 minute added time for each shot penalty. In all other competitions it is from start to finish.**

**In Pursuit and Mass Start, the first competitor to cross the finish line is the winner - subject to any penalties.**

# ***PENALTIES***

**Penalties are imposed on Biathletes, competitors and teams for violation of these Rules by incorrect, unfair or unsafe behavior during training or competition.**

**Penalties can be imposed only by the Competition Juries or the IBU Executive Board.**

**Penalties can be**

- start prohibitions**
- reprimands**
- time penalties**
- disqualifications**
- suspension or expulsion**

# **PENALTIES**

- **Start prohibitions**
- **Time penalties - 1 and 2 minute**
- **Disqualifications**
- **Fines**
- **Reprimands**
- **Suspension and Expulsions**



# **ONE MINUTE PENALTIES**

- a) not giving way at the first request by an overtaking competitor**
- b) not placing the 3 spare rounds in the cup or on the shooting ramp prior to firing one of them in the Relay competition**
- c) committing a very minor violation of the principles of fair play or the requirements of sportsmanship**

## **Two Minute Penalties**

- a. every penalty loop, as a result of shot-penalties, not done immediately after each prone or standing shooting by a competitor;**
- b. using the skating technique (one or both legs sideways) in the Relay or Mass Start Competition or in a group start, in the prepared start tracks after the start line;**
- c. every round not fired if the competitor recommences skiing before he has fired all five shots in an Individual, Sprint, Pursuit and Mass Start competition or all eight shots in a Relay competition, having not hit all targets;**
- d. committing a minor violation of the principles of fair play or the requirements of sportsmanship.**

# **DISQUALIFICATIONS**

**Disqualifications will be imposed by the Competition Juries for various violations of the Rules, and primarily for:**

- **unsafe acts**
- **gaining an unfair time advantage**
- **obstructing/ hindering others**
- **using unauthorized equipment**
- **evading various controls**
- **using unauthorized advertising**

**See the Disciplinary Rules for the list of disqualifications.**

## ***REPRIMANDS***

**A reprimand shall be imposed on a Biathlete, competitor or team for:**

- a. jeopardizing or defaming the honor or reputation of the IBU or its interests;**
- b. insulting the IBU, its organs, members of its organs or family members of those members, or guests of IBU;**
- c. violation of rules for which there is not an expressly stated more severe penalty.**

# **PROTESTS**

**Protests must be submitted in writing, using the official IBU Protest Form, to the Competition Secretary, for the Competition Jury, and must be accompanied by a fee of EUR 50, 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 (USBA/ Biathlon Canada).**

# **PROTEST TYPES AND CONDITIONS**

## **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.**

## **Protests During and After Competitions**

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

# **LESSON 7**

## ***Competition Activity - Duties and Tasks of Officials***

**Aim: To prepare you to function in the specific tasks of an official during a competition**

- **The Competition Day**
- **Monitoring Competitors, Forms and Recording**
- **Timing**
- **Results Types and Formats**

## ***EXAMPLE COMPETITION DAY***

- 0700 - Posting of temperatures in ski test area begins and continues, 0800, 0900, 0930, 1000, 1030, 1100, 1200, 1230, 1300, 1330hrs**
- 0800 - Competition Chief's meeting.**
- 0845 - Competition Jury meeting - Men.**
- 0900 - Zeroing starts - Men.**
- 0925 - Change of paper targets.**
- 0930 - Zeroing. Equipment check opens. Forerunners depart (approximate).**
- 0950 - Zeroing ends.**
- 1000:30 - First start - Men.**
- 1035 - Equipment check closes (approximate).**
- 1050 - Last start. First finish (approximate).**
- 1145 - Last finish (approx). Competition Jury meeting - Men.**
- 1150 - Provisional Results posted.**
- 1155 - Flower ceremony Men. Doping control. Press conf.**
- 1200 - Zeroing starts - Women. Competition Jury - Women.**
- 1205 - Protest time ends - Men.**
- 1225 - Change of paper targets.**
- 1230 - Zeroing. Equipment check opens. Forerunners depart (approximate)**
- 1250 - Zeroing ends.**
- 1300:30 - First start - Women.**
- 1335 - Equipment check closes (approx).**
- 1350 - Last start. First finish (approx). Competition Jury – Women.**
- 1440 - Last finish (approximate).**



# **COMPETITION DOCUMENTS**

- **Participation List**
- **Entry Form**
- **Group List**
- **Zeroing Lane Allocation**
- **Start List**
- **Intermediate, Interim and Final Results**
- **Analytical Results**
- **World Cup Total, Individual, Sprint, Pursuit, Relay and Mass Start Scores**
- **Nations Cup Score**

# **COMPETITION FORMS**

- **Equipment Control Forms**
- **Course Control forms**
- **Range Scoring Sheets**
- **Penalty Loop Control Sheets**
- **Manual Calculation Form**

# FIRING POINT OFFICIAL

MEN  WOMEN   
 RELAY  TEAM   
 INDIVIDUAL  SPRINT

OFFICIALS NAME \_\_\_\_\_

= 2 HITS, 3 MISSES

LANES NUMBERING \_\_\_\_\_ TO \_\_\_\_\_ DATE \_\_\_\_\_

BIB NO.	✓	LANE	SHOTS FIRED	X - MISSES	MISSES	COMMENTS / PENALTIES
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			
	PRONE		3-SPARES	○ ○ ○ ○ ○		..... .....
	STAND		🕒			

# **TIMING EQUIPMENT AND READING ACCURACIES**

- **Stopwatches**
- **Electric/ Electronic Manual Timers**
- **Electronic Timing Systems**

**In both manual and electronic timing, the equipment is read or rounded- off to 0.1 of a second.**

# **TYPES OF RESULTS**

## **Intermediate Results**

**During competition, normally by PA or scoreboard - reflect the current situation**

## **Provisional Results**

**First official record of the competition after the last finish - subject to protests, must be marked as Provisional and signed by TD with time marked.**

## **Final Results**

**Final record of the competition published immediately after protest time has expired, or when has resolved any protests**

## ***FINAL RESULTS FORMAT***

- 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).

# Final Results Cover Page

## Participation

Number of Entries:	60
Did not start:	1
Did not finish:	1
Disqualified:	0
Ranked Competitors:	58

## Atmospheric Conditions at the Stadium

	30 min. before Start	At Start Time	30 min. after Start	At End Time
Weather	Sunny	Sunny	Sunny	Sunny
Snow Condition	Hard	Hard	Hard	Hard
Snow Temperature	-6.6 °C	-6.6 °C	-6.6 °C	-6.6 °C
Air Temperature	-2.3 °C	-2.3 °C	-2.3 °C	-2.3 °C
Humidity	61 %	61 %	61 %	61 %
Wind Direction/Speed	E 0.7 m/s	E 0.7 m/s	E 0.7 m/s	E 0.7 m/s
Wind Direction at Shooting Range	→	→	→	→

## Jury Information

IBU TD President	BAIER Norbert	GER
Chief of Competition	STARK Franz	AUT
Member	GOLEV Alexandre	RUS
Member	KHOVANTSEV Anatoli	FIN
Member	ZINGERLE Andreas	ITA

## Course Information

**red 2.437 m + green 2.597 m + yellow 2.597 m + blue 2.597 m + brown 2.573 m**

Total Course Length:	12.801 m
Height Difference:	26 m
Max. Climb:	19 m
Total Climb:	395 m

## Jury Decisions

none

IBU TD President

**BAIER Norbert (GER)**

## ***FINAL RESULTS COVER PAGE***

Title - Final Result

Event name, location and date

Competition name (ie Men's 20km Individual)

Competition start time

Participation statistics: number of entries, DNS, DNF, DSQ, ranked

Atmospheric conditions at stadium (can be given for various times before and during)

Sky condition (cloudy, clear, etc)

Snow and air temperatures

Humidity

Wind speed and direction

List of Competition Jury members

TD's signature

If space permits other information can be included - such as the actual length, height difference (HD), total climb (TC) and altitude of the course.



# **LESSON 8**

## ***Biathlon Communications***

**Aim: To teach you the skills and knowledge required to be an effective Biathlon communicator**

- **General**
- **Biathlon Communications Systems**
- **Equipment - Types and Care**
- **Sending and Receiving - Voice Procedure and Read-back Procedures**
- **Communications Security**

# GENERAL COMMUNICATIONS FACTS

**NET:** two or more stations operating on the same frequency (channel) for a common purpose.

**STATION:** one radio on a net

**CALL SIGN:** a short name of a station on the net, all stations will have a name, can be the persons name or title or a specific nick- name

# **COMMUNICATIONS PRINCIPLES**

- **You are obligated to listen at all times when issued a radio or telephone. A missed message can have serious consequences.**
- **Messages must be short, precise and clear. Think out your message before transmitting. No swearing**
- **Numbers must be said as digits - 17 is sent as “one seven” not “seventeen” and 2043 is sent as “two zero four three” to avoid confusion with similar sounding numbers.**
- **All results- related information must be read back by the receiver, and the sender must check the read-back to ensure correctness.**
- **Remember that your transmissions can be scanned - the media does it at major events**

# **BIATHLON RADIO NETS: *COMMAND NET***

<b>Competition Chief</b>	<b>- CHIEF</b>
<b>Competition Secretary</b>	<b>- SECRETARY</b>
<b>Chief of Course</b>	<b>- COURSE</b>
<b>Chief of Range</b>	<b>- RANGE</b>
<b>Chief of Timing</b>	<b>- TIMING</b>
<b>Chief of Stadium</b>	<b>- STADIUM</b>
<b>Public Announcer</b>	<b>- PA or ANNOUNCER</b>
<b>Medical Officer</b>	<b>- MEDIC or DOCTOR</b>
<b>IBU Sport Director</b>	<b>- SPORT</b>
<b>Medical Delegate</b>	<b>- DOPING</b>
<b>TD (if required)</b>	<b>- TD</b>

**Other stations can be added as required, such as Chairman, Office, etc.**

# **BIATHLON RADIO NETS:**

## ***COURSE NET***

<b>Chief of Course</b>	<b>- CHIEF</b>
<b>Course Control Officer</b>	<b>- CHECKER</b>
<b>Course Maintenance Officer</b>	<b>- GROOMER</b>
<b>Checkpoint 1</b>	<b>- POINT 1</b>
<b>Checkpoint 2</b>	<b>- POINT 2</b>
<b>Checkpoint 3</b>	<b>- POINT 3</b>
<b>Medical Supervisor</b>	<b>- MEDIC</b>
<b>Forerunner Captain</b>	<b>- RUNNER</b>

# **BIATHLON RADIO NETS:**

## ***RANGE NET***

<b>Chief of Range</b>	<b>- CHIEF</b>
<b>Range Officer</b>	<b>- RANGE</b>
<b>Prone Supervisor</b>	<b>- PRONE</b>
<b>Standing Supervisor</b>	<b>- STANDING</b>
<b>Penalty Loop Supervisor</b>	<b>- LOOP</b>

**If shooting scores are being passed by radio, the Range Net would include communicators on the range and in Timing.**

# **BIATHLON RADIO NETS: *COMPETITION JURY NET***

- TD - TD**
- IBU Sport Director - SPORT (not in Canada)**
- Competition Chief - CHIEF**
- Member - FIRST or LAST NAME**
- Member - FIRST or LAST NAME**
- Member - FIRST or LAST NAME**

**The IRs (NRs) may also be on the Jury Net, as follows:**

- IR Course - COURSE**
- IR Range - RANGE**
- IR Start/ Finish - START**
- IR Material - MATERIAL**

# **RADIO VOICE PROCEDURES**

**To ensure effectiveness in communications, the following procedures are important.**

- Press the transmit button for a moment before starting to speak to ensure part of the message is not cut off.**
- To establish contact with another station on your net, say the call- sign of the station you are calling and then identify yourself “CHIEF THIS IS COURSE, OVER”**
- Use “OVER” if you want to continue the conversation but want to give the other station a chance to speak. This tells other stations that you are not finished.**
- Use “OUT” when the entire conversation is finished. This tells the other stations that your use of the net is finished and they are free to transmit.**



**THE END**

***See you on the Advanced  
Course***