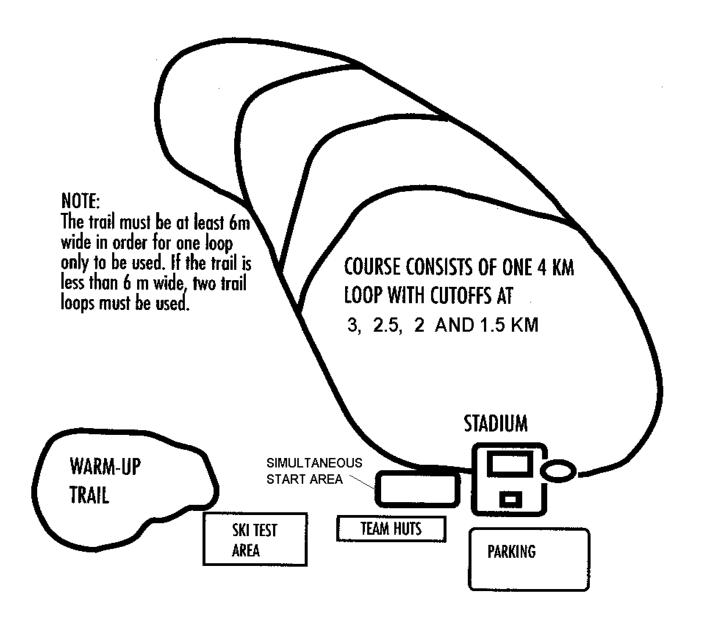
LESSON 4 Competition Facilities

Aim: To give you the information about biathlon facilities that you need as an official

- General Layout Description and Access Control Zones
- Stadium components and specifications
- Start Areas and Relay Hand- over Zone specifications
- Courses specifications
- Range and Targets specifications

BIATHLON FACILITY EXAMPLE



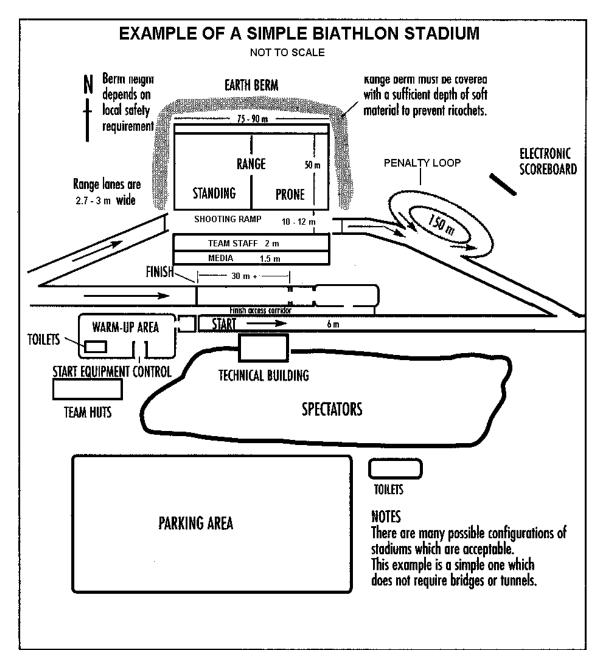
BIATHLON FACILITY ACCESS CONTROL ZONES

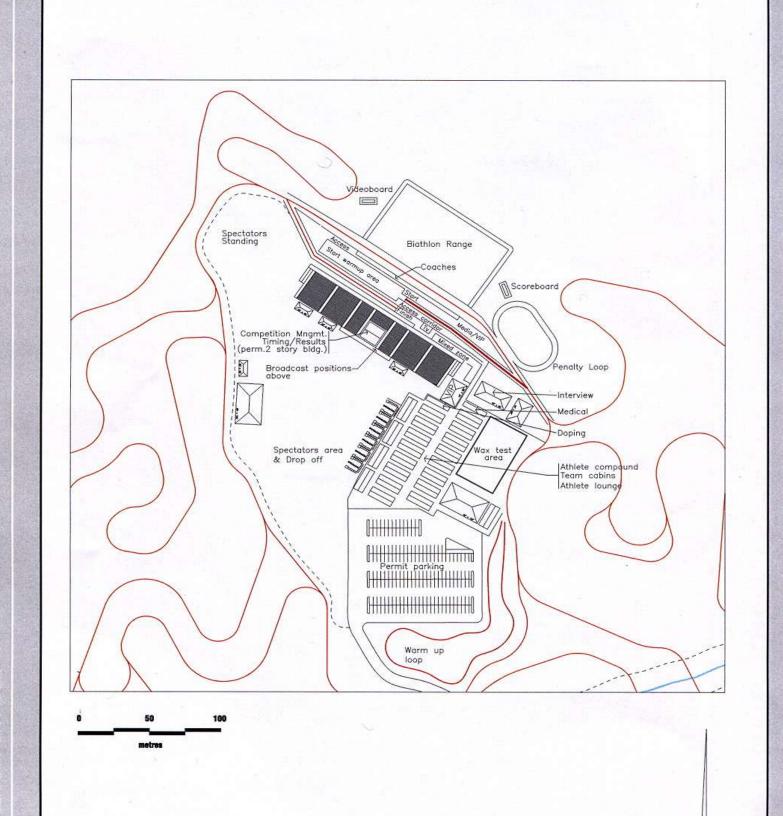
- 1- Ski test and waxing areas, team cabins
- 2- Course
- 3- Shooting range
- 4- Start, warm- up and finish exit areas
- 5- Start/finish areas
- 6- Competition office
- 7- Technical areas electronic timing/targets, etc
- 8- Doping control areas
- 9- Media areas
- 0- All operational areas

SPECIAL HOSTING AREAS

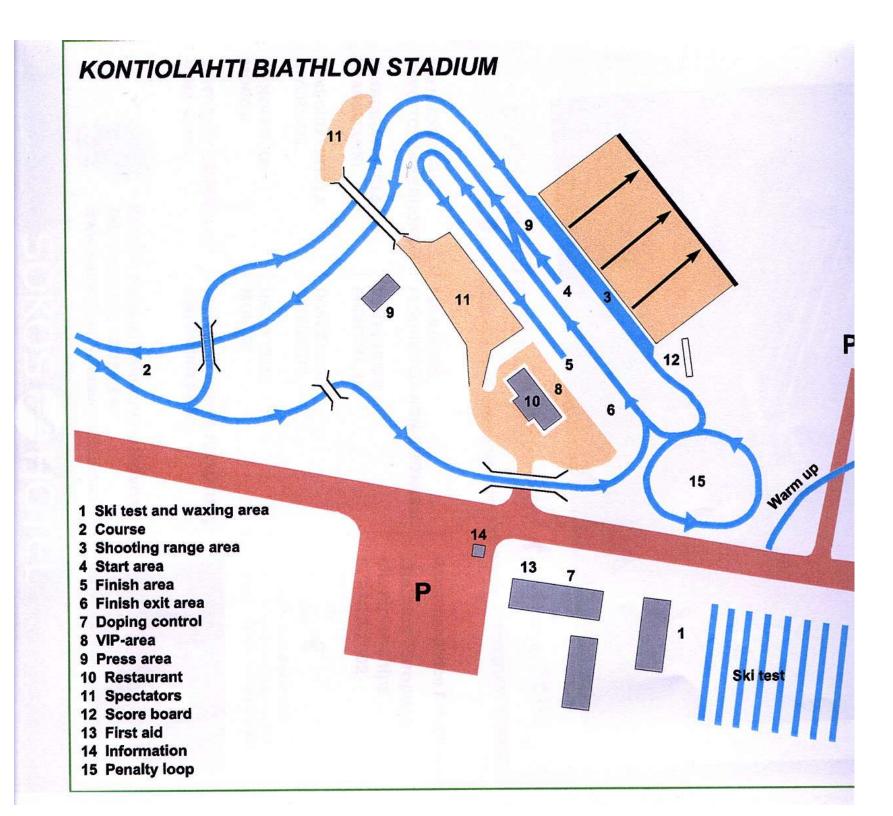
- I IBU Lounge
- Z Organizing Committee VIP area
- X Organizing Committee Special Hosting area

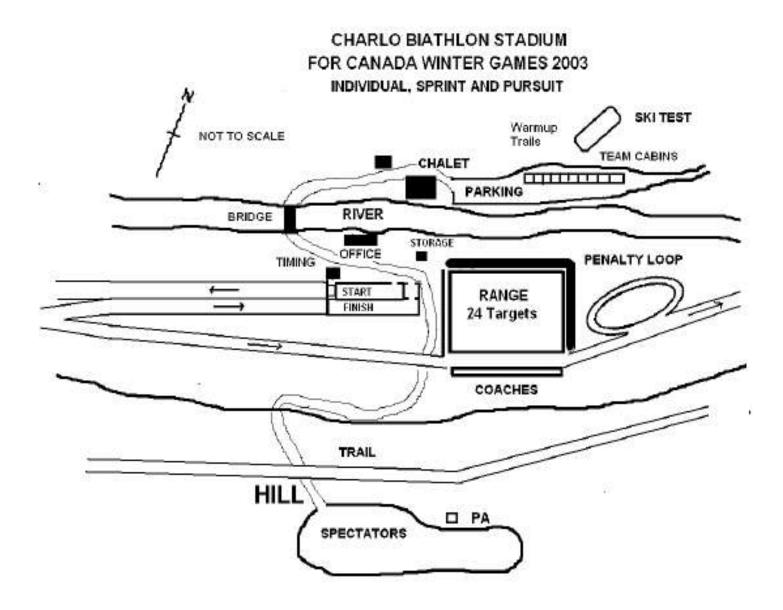
BIATHLON STADIUM EXAMPLE





ADIUM LAYOUT







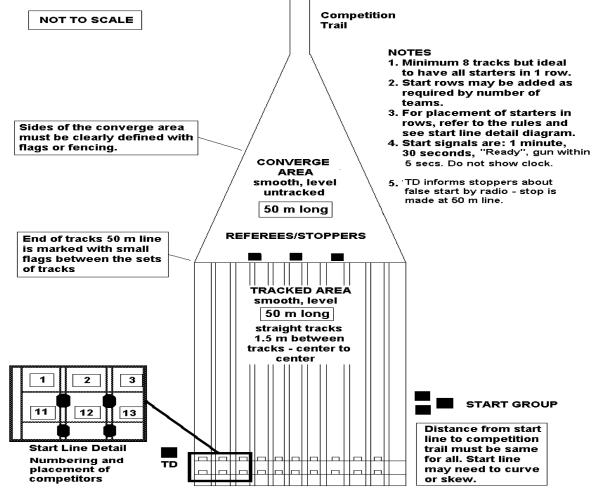


Charlo Stadium Start/Finish and Timing Building

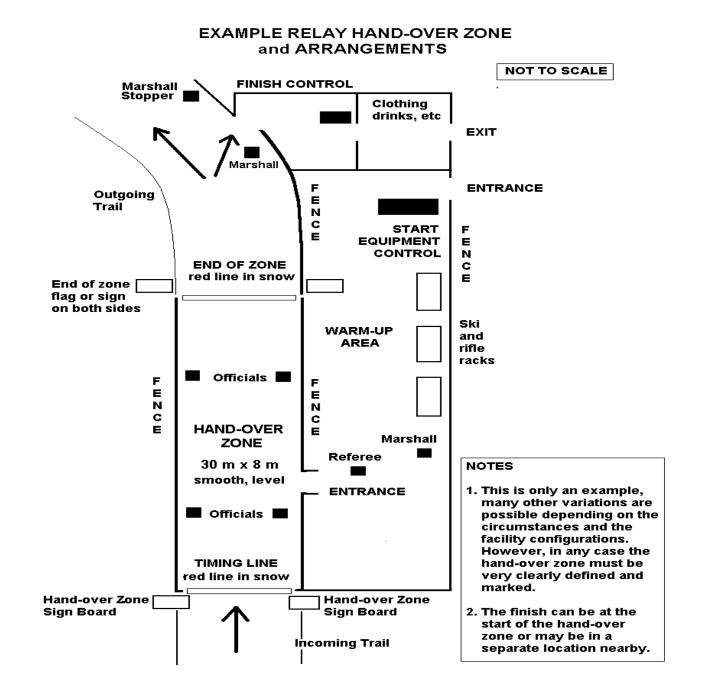


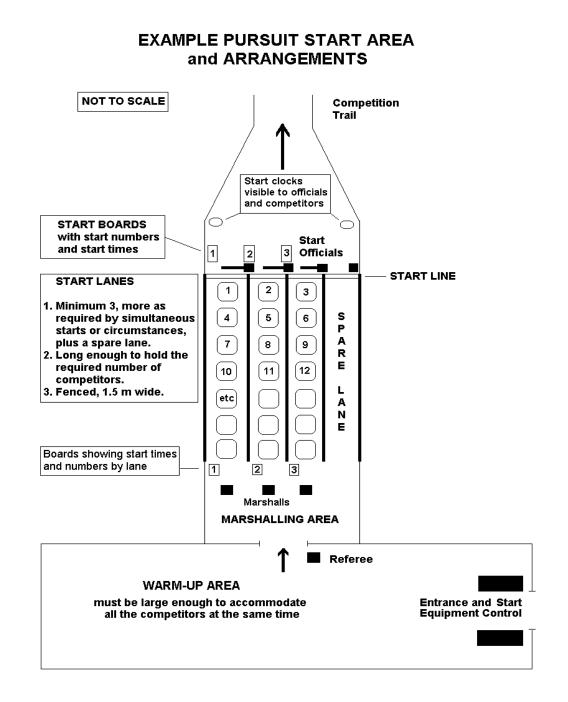


EXAMPLE SIMULTANEOUS START AREA FOR RELAYS AND MASS START COMPETITIONS WITH ARRANGEMENTS



2.5 m between start rows



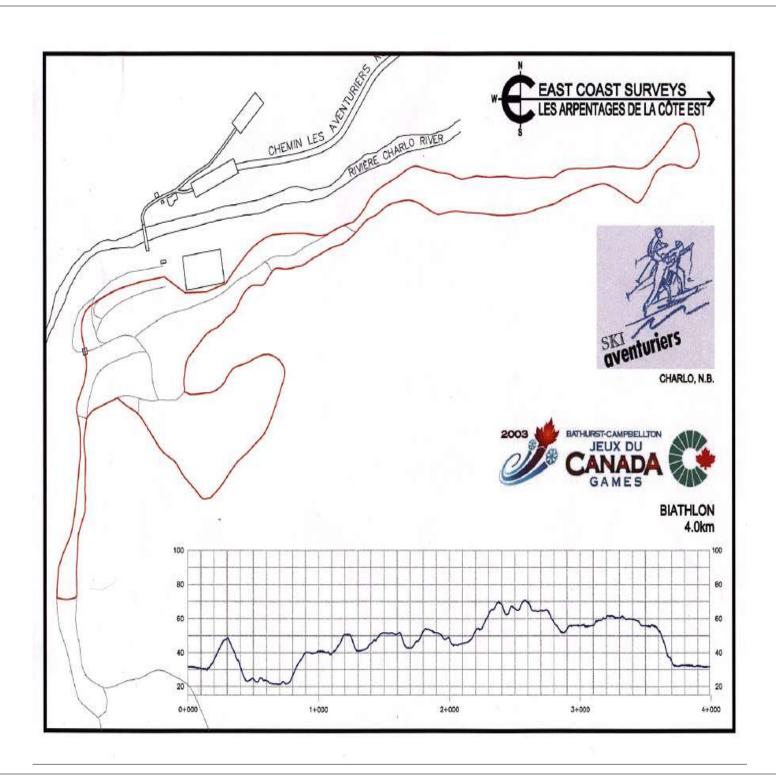


COURSE SPECIFICATIONS

- General changing terrain, no extremely long difficult climbs, no dangerous descents, changes should not break rhythm
- Max altitude 1800 m above sea level
- Width 6 m (4 m for maximum 50 m)
- Length deviation plus/ minus 5%
- Tracks if required, TD directs
- Safety full speed without risk
- Grooming level, packed, not frozen, clear of obstructions
- Marking for definition, identification (along right side), colors - red, green, yellow, blue, brown
- Finish sign 100 M TO FINISH
- Fencing so no possibility of error

CBC COURSES AT SMR

- www.coloradobiathlon.org/ forms/
- Course maps linked at bottom of page



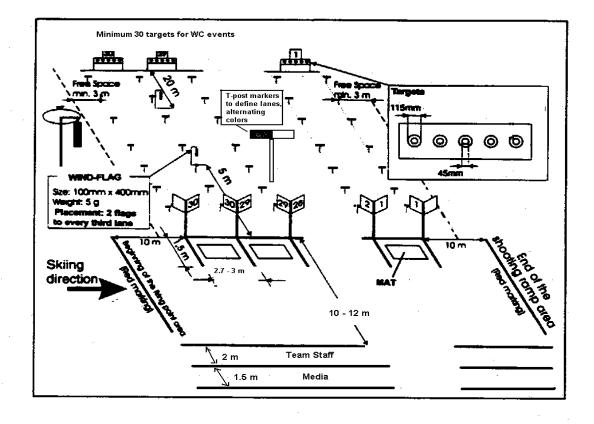
RANGE SPECIFICATIONS

- right prone, left standing, numbering starts at right with 1
- minimum 30 targets at WC; Canadian Championships 24
- shooting distance 50 m (+/- 1 m)
- sideways deviation: 1% (0.5 m)
- target center height: 80 to 100 cm above level of firing point
- Iane width: 2.7 to 3 m (2.75 is ideal) marked 1.5 m to rear with boards in snow 2 cm deep
- center target in center of lane
- background white from bottom of target to 1 m above
- ramp totally snow covered, no ice, level, smooth
- mats: 150 x 150 cm 1 to 2 cm thick
- wind flags: every 3rd lane, 5 and 20 m (from targets)
- relay cups: 1 m high
- reserve rifle racks: center, 2 rifles per team
- marking (zone of silence): 10 m from left and right

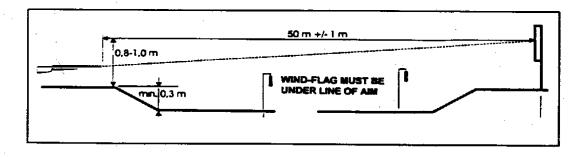
SHOOTING RANGE DETAIL

NOT TO SCALE

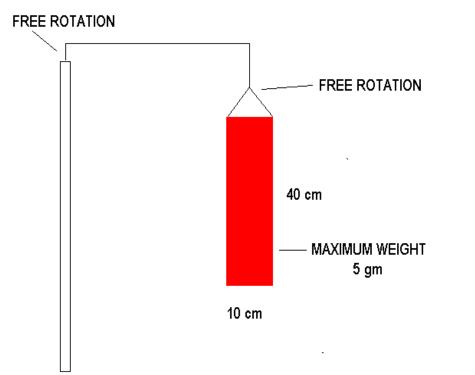
See Rules for specific regulations



SHOOTING RANGE SIDE VIEW



EXAMPLE OF A WINDFLAG



TYPES OF COMMON BIATHLON TARGETS

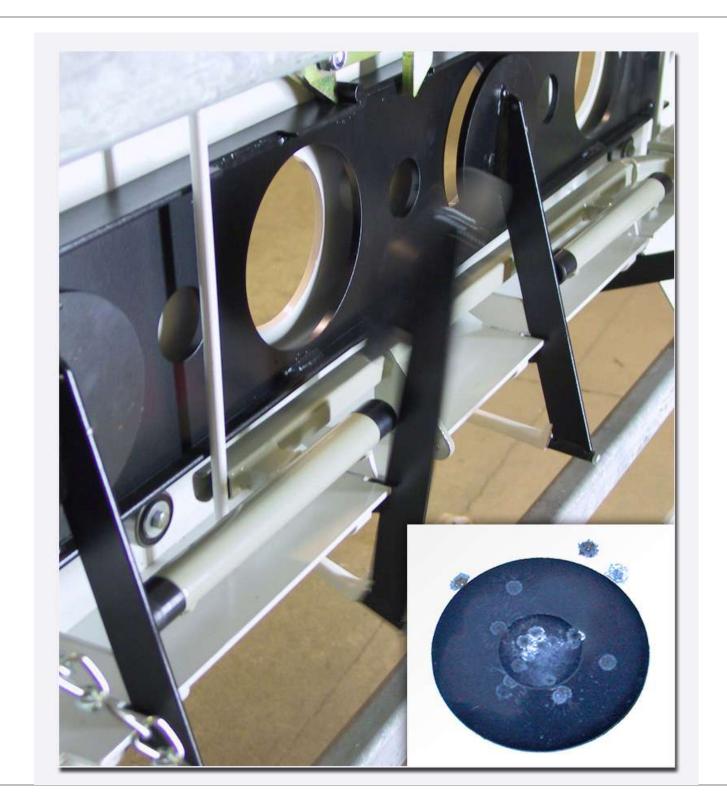
KURVINEN

- Mechanical but full electronics can be attached.
- Principle is a metal plate which falls backward when hit causing white flap to operate and sends electronic scoring signal

HORA

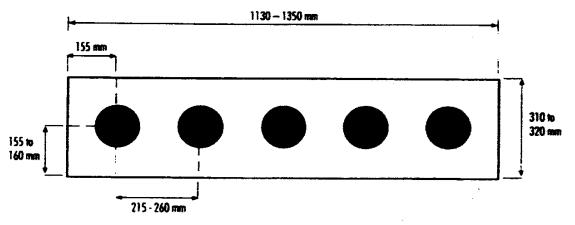
- Electronic operation
 only
- Principle is a plate which converts bullet impact to an electronic impulse and causes white flap to operate and send electronic scoring signal

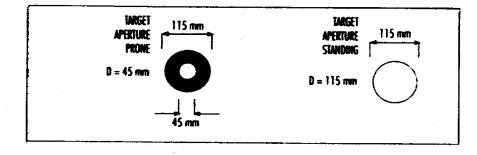




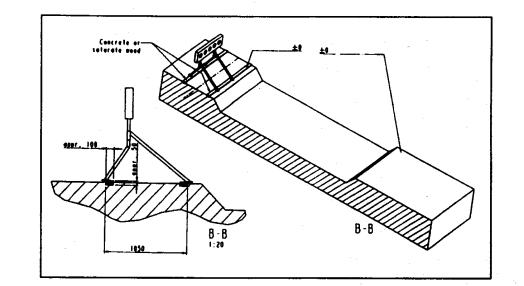
TARGET SIZES







TARGET INSTALLATION



LESSON 5 OUTLINE Preparations for a Biathlon Event and Competitions

Aim: To provide you with the required knowledge about the preparations for a Biathlon event and competitions

- Bids, Invitations, Registrations
- Programs Training, Competition, Social/Cultural, Ceremonial
- Hosting Logistics
- Facility Preparations, Official/ Unofficial Training, Zeroing
- Entries, Team Captains Meetings and Draws
- Equipment Checks and Use of Measuring Devices

BIATHLON HOSTING

Bids, Invitations and Registrations are made according to the applicable event rules.

INVITATIONS

Invitations for WCH, Y/ JWCH, WC, CCH and CC must contain the following information (see Hosting Policy for Canada):

- a) name, location and dates of the event;
- b) host community facts and weather data;
- c) event schedule with all event activities, including time and place of team captains meetings;
- d) technical specifications of the competition facility with stadium and course maps;
- e) list of key organizing persons and TD and IRs;
- f) travel connection information;
- g) customs, rifle and ammunition import/ export regulations, and regulations for use of radios;
- h) accommodation and meal information with costs;
- i) arrival and departure transport arrangements;
- j) on site transport arrangements (hotel stadium), and rental vehicle availability and costs;
- k) registration and entry forms;
- I) organizing committee contact information address, telephone, fax, e- mail;
- m) any other necessary information