Basic Instructions

All you need to know to get started in orienteering!

Most orienteering events are one of two types:

Point-to-point - In standard 'point-to-point' orienteering events the winner is the fastest person between the start and finish points to visit all the controls on course. Controls **must** be found in the order shown - control circles are connected by lines.

Score - In score events you have a set amount of time to find as many controls (each worth a number of points) as you can and make it back to the finish. You lose points if you are late and gain bonus points if you collect all the controls and are back early. Controls can be visited in any order - control circles are not connected.

The basics

- You need to check in at each control with the timing system provided by the organizers. If, for some reason, the control doesn't register you should use the back up pin-punch to mark your map to prove you visited that control.
- Once you have punched the finish you may not go back on course to visit controls you have missed. (This rule is sometimes relaxed at less competitive events.)
- If you miss any required controls your result will be list as 'mis-punched' or mp. This is equivalent to not completing the course. Tip: Make sure to check that the control code on the control matches the code on your control descriptions or map so you know you are at the right one.
- The only navigational tools you are allowed to use are a magnetic compass and the official course map. With the exception of GPS sport watches, GPS devices are explicitly banned.

Getting Started

- You may rent a timing chip from the organizers or bring your own. Either way, data from previous races must be erased from the chip before you start. A system to do so is always provided.
- In point-to-point events, you may not start at the same time as another competitor on the same course as you (in score events typically everyone starts at the same time). If start times have not been pre-assigned you may start when you wish within the specified time-frame. If start times have been pre-assigned you must start at your assigned time.
- At championship competitions you are not allowed to look at the map or the course before your start time. At most events you are allowed to study the course and ask for help if needed when you arrive to register.

Safety

- All orienteers must carry a whistle with them while on course. If you are injured or completely lost blow three long blasts on your whistle every few minutes and don't move. Someone will come find you. Blowing your whistle as a joke or in order to distract a competitor so you can gain an advantage on course could result in disqualification.
- Your map should provide a safety bearing (direction) which you can use to get back to a major road or other feature which you can then follow back to the start or finish if you are lost. If this isn't mentioned on the map, ask an organizer.
- If you hear three long blasts while out on course you are obliged to quit your course in order to help the injured or lost party. Ignoring the call for help could result in disqualification.
- You must ALWAYS report in to the results crew at the finish line even if you do not complete your course.
- If there is a course cut-off time, you must make it back to the finish line and report to the results crew by that time. Even if it means quitting the course. If you are not back in time, race officials will initiate search and rescue procedures. Organizers have the right to ban repeat offenders from competing.

Fair Play

- Certain features / map symbols are forbidden to cross. Pay particular attention to private property and out
 of bounds areas marked in olive green, or black or pink stripes. If you are caught crossing these symbols you will
 be disqualified. See o-store.ca's legend sheets for which symbols are forbidden to cross.
- It is frowned upon to follow another competitor without doing your own navigation. Please respect the spirit of the sport and enjoy the challenge of finding your own way.
- In competitive events, it is also frowned upon to ask another competitor where you are unless you are very lost and are willing to give up your race result. This is considered ok for young children or in training scenarios.
- It is considered unsportsmanlike to purposefully engage in behaviour that is distracting to other competitors on course. Please be respectful of competitors that want to focus while racing.
- The environment is a critical part of orienteering. Please carry out everything you bring into the woods unless the organizers have explicitly stated that it is ok to leave something where they will clean it up at the end of the event.

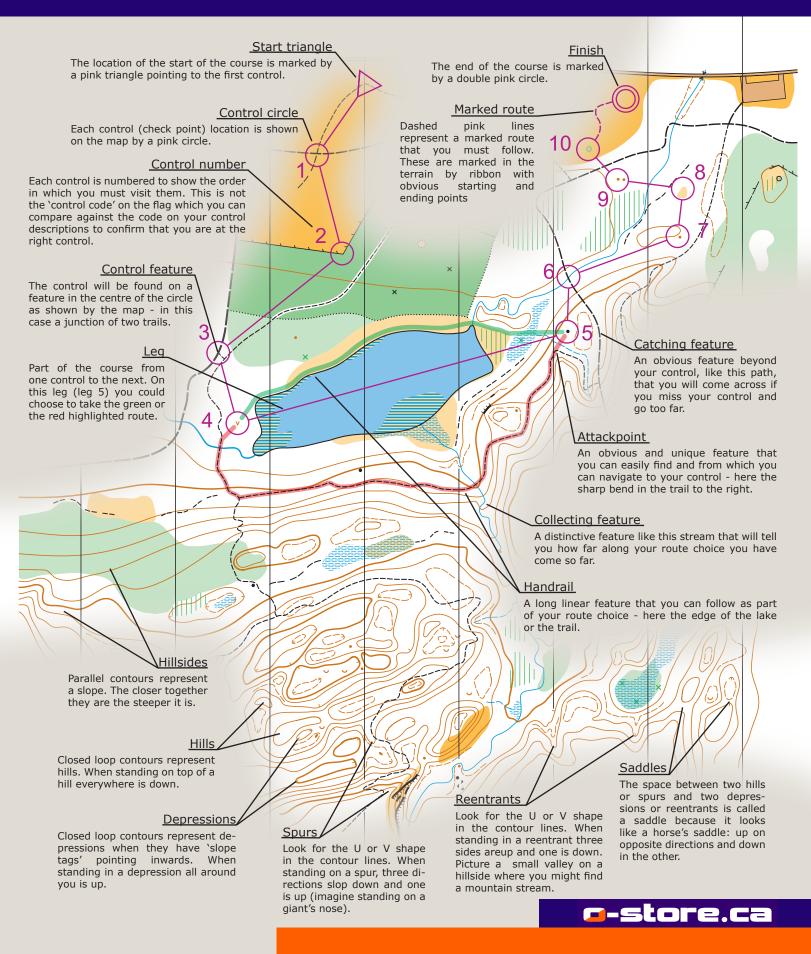
And most important - enjoy the experience.



The Orienteering Course

Annoted map and course with key terminology

Standard orienteering maps will always tell you what the scale and contour interval are (not shown in this example). Evenly spaced black or blue lines point to **magnetic** north.



Land Forms



Contours (slope tags point downhill)



Index contour (every 5th contour)



Form line (shows land form features between contours)



Small knolls (small hills)



Small depression, pit

Earth bank (earthen cliff)



Earth wall or berm, smaller earth wall





Erosion gully (eroded trench) Small erosion gully or ditch



Broken ground (lumpy - hard to run)

Open forest (80-100% running speed)

Forest (60-80%, 20-60%, 0-20%

Distinct vegetation boundary (e.g.

Dense undergrowth (hard to run)

Open land, with scattered trees

Rough open land, with scattered

Individual trees, particularly

Cultivated land (black line shows

Forest: runnable in direction of stripes



Special land form feature*

Vegetation

running speed)

between types of trees)

Undergrowth (slow running)

Water and Marshes



Lake



Ponds, waterhole



Uncrossable marsh



Marshes



Uncrossable river (crossable at break in black lines)



Small crossable creeks

Indistinct or seasonal marsh



Minor water channel



Narrow marsh



Well, spring (shown with stream flowing from it)

Special water feature*

Building

Man-made Features





Private developed area



Paved area



Road, major road, divided road



Small road (typically gravel), vehicle



Path, small trail



Indistinct trail (hard to spot), narrow ride or cut line (break in trees)



Railway



Power line, major power line



Fence, ruined fence, high fence



Stone wall, ruined stone wall, high







Trail junction, indistinct trail junction



Footbridge



Crossing point with bridge, without



Tunnels



Ruin, small ruin



Firing range



Graves



Crossable pipeline, uncrossable pipeline



High tower, small towers (such as hunting platforms)

Cairn or large stone pile

Fodder rack

Special man-made features*

Permanently out of bounds

Key to Text

distinct tree

Orchard, vineyard

distinct boundary)

Bold = commonly used symbols

Special vegetation feature*

(often means rootstock)

Pink= forbidden to cross (if you do you will be disqualified)

*Special features symbols and their definitions should be listed on the map.

Rock and Boulders



Impassable cliffs (tags point downhill)



Passable cliffs or rock faces (tags point downhill)

Rocky pit

Boulders, massive boulder

Boulder clusters

悠

Boulder field Stony ground

Open sand or gravel



Bare rock



Rock pillars or distinctly shaped cliffs



Cave (open end of V shows the direction of cave entrance)

Technical Symbols



Uncrossable boundary (often shown on top of another symbol like a fence)



Out-of-bounds area



Dangerous area

Crossing point

Forbidden route (you can cross it but not travel along it)



First aid post



Refreshment point



For the complete international mapping specification visit www.orienteering.org.

Sprint Orienteering Map Legend

International Standard For Sprint Orienteering Mapping

This mapping standard (ISSOM) is used for vast majority of urban orienteering events and for some short forest events.

Standard map scales are 1:4,000 or 1:5,000.

Man-made Features

Paved areas (in urban areas, in wild areas), (lines show steps and edges of pavement)



Private developed area (including gardens - see Vegetation)



Building



Canopy (light gray with outline)



Pillars (shown here under a canopy)



Large, unpaved trail (in urban areas, in wild areas)

Small trail, indistinct trail (hard to



spot trail) Narrow ride or cut line *(gap in forest)*



Railways (passable, impassable)



Major powerline, small powerline



Bridge, tunnel / underpass



Passable fence, impassable fence



Gate or crossing point (shown here



in a fence)



Stone wall



Passable wall, impassable wall



Passable pipeline, impassable pipeline



High tower, small towers (such as hunting platforms)



Cairn, memorial, small monument, or boundary stone

- ↑ Fodder rack
- ° × Special man-made features*

Water and Marshes



Impassable body of water (pond, lake, deep river, etc.)



Waterhole



Passable body of water (shallow river, wading pool, etc.)



Small creek, intermittent water-



Narrow marsh



Impassable marsh



Marsh



Indistinct or seasonal marshes



Well, spring (shown with stream flowing from it)

Special water feature*

Rock and Boulders



Impassable cliffs (tags point downbill)



Passable cliffs or rock faces (tags point downhill)

:· •

Boulders, massive boulder

Might

Boulder field

Stony ground



Open sand or gravel



Bare rock



Rock pillars or distinctly shaped cliffs



Rocky pit



Cave (open end of V shows the direction of cave entrance)

Land Forms



Contours (slope tags point downhill)



Index contour (every 5th contour)



Form line (shows land form features between contours)



Small knolls (small hills)



Small depression, pit



Earth bank (earthen cliff)



Earth wall or berm



Erosion gully (eroded trench)



Small erosion gully or ditch



Broken ground (lumpy - hard to run)

×

Special land form feature*

Key to Text

Bold = commonly used symbols

Pink = forbidden to cross (if you do you will be disqualified) Note the larger number of forbidden to cross features on sprint maps.

*Special features symbols and their definitions should be listed on the map.

Vegetation





Forest (60-80%, 20-60%, 0-20% running speed)



Impassible thick vegetation, hedge



Private developed area, garden or flower bed



Distinct vegetation boundary (e.g. between types of trees)



Undergrowth (slow running)



Dense undergrowth (hard to run)



Open land, with scattered trees



Rough open land, with scattered trees



Individual trees, particularly distinct tree



Cultivated land (black line shows distinct boundary)



Forest: runnable in direction of stripes

· ·

Special vegetation feature* (often means rootstock)

Orchard, vineyard

c-store.ca

For the complete international mapping specification visit www.orienteering.org.

Technical Symbols

Incrossable boundary (often shown on

Forbidden route (you can cross it but



top of another symbol like a fence)

Crossing point



Dangerous area

Out-of-bounds area



First aid post



Refreshment point

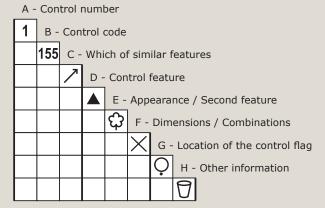
not travel along it)

Orienteering Control Descriptions

International Orienteering Federation symbols

Control descriptions are designed to complement the map and give additional information about the location of each control. With practice you should be able to use the control descriptions to visualise the location of the control flag before you get there. This allows you to orienteer much more smoothly throughout the course.

Different columns give different information



Control description sheets also give information about the course length and amount of climb (if calculated), special instructions about marked routes or map exchanges, and information about the run from the last control to the finish.

	IOF Control Descriptions							
	Sample Layout			4.3 km			25 m	
\triangleright			/			<		
1	145		~			•		
2	152	Ţ	•			Ċ		
	○150 m>							
3	153		Ą	\mathcal{C}		Ċ		
○200 m>◎								

A - Control number

that shown on the map - usually

The control number matches

counting up from 1.

B - Control code

The control code is also shown on the control flag and is used to verify that you are at the right control. They are most often numbers but sometimes letters.

C - Which of similar features



^{*} Can be rotated to mean north-western, western, etc.

Column D - Control feature

The black and white symbols (left) that appear in the control descriptions match different symbols (right) on the map.



^{*} These descriptions are used more in urban events and so the corresponding sprint map symbols are shown.

-store.ca

Orienteering Control Descriptions

International Orienteering Federation symbols

E - Appearance

Iow Shallow Deep Overgrown Open Rocky or stony Marshy Sandy Needle leaved

Broad leaved

Ruined

F - Dimensions/ Combinations

1.2	Height ordDepth (e.g. oboulder or pit)		
6x5	Size*		
0.8/	Height on slope**		
1.5	Heights of two features		

Crossing (4-way junction) Junction (3-way junction)

All dimension are in metres.

- * Rough length and width of a feature on the ground when it is not obvious from the map - e.g. an oddly shaped knoll or small clearing. A large clearing drawn to shape does not need this.
- **Height of the feature as seen from above and below.

G - Location of the control flag

O.	North east side*
Ó	West edge*
\odot	South part*
>	East corner (inside)*
六	North corner (outside)*
1	North west tip*
<	Bend
T	North end*
•	Upper part
:	Lower part
J	Тор
<u>.</u>	Beneath
•	Foot
Q	North east foot*
•	Retween

H - Other info



First aid post

Refreshment point

Location of radio or TV

Example Control Descriptions

Example Event Name Sample 3.3 km 10 m Course 1 150 2 151 3 126 4 127 5 131 Sur 6 132 133 7 \bigcirc 8 130 9 129 10 128 -200 m --

Course is 3.3km with 10m of climb

Bend in trail

Intersection of two trails Inside south-east corner of fence

T-junction of two trails

South-west side of boulder Intersection of path and stream

Between hill and knoll

Northern part of clearing

North side of western knoll North side of deciduous tree

200m marked route from last control to finish

Special Instructions

The following special symbol rows show different mandatory instructions. Marked routes and crossing points are also marked on the map and in the terrain with some kind of ribbon or fencing. They must be followed.

- - - 225 m - - - >

Follow 225 m marked route away from control

---175 m --->()

Follow 175 m marked route between controls

>0

Mandatory crossing point (or points) between controls

Mandatory passage through out of bounds area between controls

()----250 m ---> /\

Follow 250 m marked route to map exchange

()----275 m --->(©)

control to finish

Follow 275 m chute from last

- - - 175 m - - - **>** ◎

Navigate to start of 175 finish chute then follow to finish

150 m

Navigate 150 m to finish. No chute or marked route.



control Between

^{*} Directional symbols can be shown facing any of the 8 cardinal directions to show which side, corner, etc. the flag is at.