

Participant's Handbook



Orienteering is a sport that combines both a physical and a mental element.

The basic idea in orienteering is to proceed from course start to finish by visiting a number of control points in a pre-determined order, using only a detailed map and a compass.

In order to choose the best possible route, orienteers look at the characteristics of the terrain, and the winner is the person who completes the course in the fastest time.

Orienteering is unique in that an orienteer must navigate and make quick decisions while running at high speed.



Мар

Orienteering uses a special map made to specific orienteering standards. The course is printed in purple on top of the map. Maps are given to you at the start.

Compass

A simple compass would be suitable for beginners. It is primarily used to line the map up with North. Advanced orienteers can use a compass attached to their thumb, some may use a magnifier attachment.

SI Stick or Control Card

To record you have visited the right controls you will have to use a SI Stick or control card.

Control Description Holder

Some orienteers like to use a control description holder attached to their forearm to provide easy viewing of the control descriptions.

Protective clothing

It is important to dress according to the weather and environment, especially bush terrain (whistle, leg protection, glasses, taping, water...)





Мар

Orienteering maps have BOLTSS (Border, Orientation, Legend, Title, Scale, Source)

Triangle = Starting point.

Circles = control point, marked in the terrain with a white and orange flag.

Double Circle = Finish.

Compass

Compasses can be used for:

- Orientating *(lining the map with North)*
- Bearings (travelling in a specific direction using the compass)
- Thumbing (pointing to your current location on the map)

Orientating the map

The most important skill in orienteering is to orientate your map.

Orientate your map by **terrain features** – *Map matches the ground*. This is done without using a compass and requires you to look at large features around you to align your map.

Orientate your map by **compass** – *North to North*. North on the map lines up with North on the compass.

Figuring out what direction to travel

These two steps can be used to quickly and simply point you in the right direction.

- 1. Turn the map so the direction of travel faces out from your bellybutton (typically from where you are to the next control often marked with a pink line on the map).
- 2. Rotate yourself and map as a unit until the map is oriented. The direction you are facing is the direction you want to go.

Bearing

	A A A	Real Provide American Americ American American A
1 – Place your compass on	2 – Turn yourself and the	3 – Now the sighting line
the map and use the	compass until the compass	will point towards your
baseline to make a straight	needle is parallel with the	destination. Take a
line between your current	map north lines.	landmark and start moving.
position and your		
destination.		

Holding the Map

Fold and hold the map so it isn't flapping around. Use your thumb to point to your position on the map (*thumbing*).

Following a Handrail

Handrails are features that you can easily follow. Tracks, roads and fences are the most obvious, but you can follow streams, ditches, the edges of fields, and other long features just as easily. Following a "handrail" takes much less concentration than following a compass bearing.

Attack points

An attack point is an obvious feature located near the control that can be easily located on the map and in the terrain. It is used as a 'jumping-off' point to locate the control with careful navigation.

Checking Off / Collecting Features

Features you mentally "check off" along a route that tell you you're on track. This is often referred to as "staying in contact with the map."

Using Catching Features

A catching feature is a noticeable feature beyond the control that indicates you have gone too far.

Route choice

Some key questions to consider when choosing a route are:

- 1 How runnable is the terrain?
- 2 Are there available handrails?
- 3 Where are good attack points?
- 4 Is there a good catching feature?
- 5 Should you choose a safe or riskier navigation option?
- 6 How can I avoid any unnecessary steep terrain or climb?

Visualisation

Mentally visualise a map of the terrain.

Mentally visualise the terrain from the map.

Simplification

Use big and/or obvious features to navigate by. This can permit the orienteer to choose routes that they can navigate more quickly. It also can reduce the potential risk of making an error.

Aiming off

To intentionally aim to one side (or 'off') of a feature or control so that you know which way to turn to find it, rather than searching back and forth.

Red-lining

Navigating straight towards a control by trying to keep close to the red line that connects the two controls. This would be the shortest route, but may be the most challenging. It relies on a compass bearing, collecting features and distance judgement and requires close contact with the map.

Contours

Contours show how step the land is. The height difference between two contours is recorded on the map; usually 2m or 5m. Contours close together means the land is step. The further apart contours are, the gentler the slope. No contours represent flat land.

Identifying **land going up** = smallish oval areas surrounded by larger ones indicate a high point

Identifying **land going down** = look for streams, marshes, or other bodies of water). Often gullies have more undergrowth, so look for green on the map.

Note: Tags on a contour or cliff show downhill.

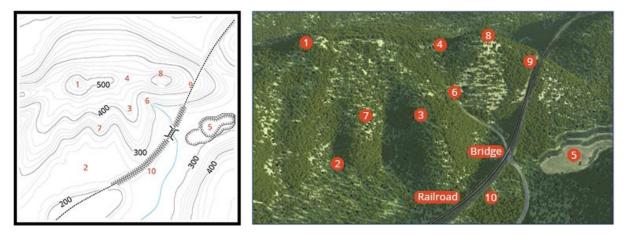
Hills, peaks, knolls, mountains: A hill, peak, knoll or mountain is an area of high ground. From a hilltop, the ground slopes down in all directions. A hill is shown on a map by contour lines forming concentric circles. The inside of the smallest closed circle is the hilltop.

Ridge: a ridge is a sloping line of high ground.

Gully: a gully is a stretched-out groove in the land, usually formed by a watercourse, and has high ground on three sides.

Spur: A spur is a short, continuous sloping line of higher ground, normally jutting out from the side of a ridge. A spur is often formed by two roughly parallel streams cutting down the side of a ridge. The ground will slope down in three directions and up in one.

Saddle: A saddle is a dip or low point between two areas of higher ground.



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Rough vs Precision (Traffic Light)

Traffic Light orienteering refers to using three speed zones.

Green = run without much attention to the map.

Orange = slow down and give some attention to the map. Getting close to the attack point.

Red = the slowest and may even require stopping as you put a lot of attention to navigating. Getting close to the control.

Error Recovery Process

Relocation is the process of determining again where you are on the map.

STOP – Save time and stop as soon as you feel lost.
Terrain – Identify unique features in the terrain.
Orientate – Make sure the map is orientated.
Proceed – Continue with caution.

Safety Bearing

A compass bearing that will bring a participant to a road or other easily recognisable feature in the case that they get lost or encounter some other emergency during the event. e.g. South to the sealed road.



Navigation is using the orienteering skills to travel from one control to another. Here are two procedures that will help your navigation.

THE 5 FOUNDATIONS OF ORIENTEERING

As a beginner, it is important to get used to a clear and safe method of navigating. The following steps can be used for each control.

Orientate your map

- Understand where you are on the map and where you are going
- *Choose and plan your route*
- Going from A to B
- *Find the control*

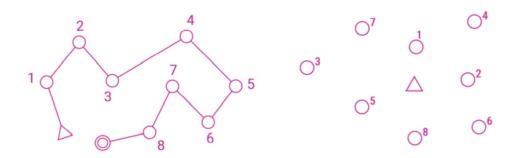
CARE

To speed up your orienteering navigation you could use the CARE strategy for each control.

- **C**ontrol What is the control description?
- Attack Point What will my attack point be?
- **R**oute Which route option will I take?
- Exit What direction will I leave the control in?

Line Course

Score / Scatter Course





IOF Sprint Orienteering Map Symbols - ISSprOM 2019 Man-made features Vegetation Land forms Contour Paved area (light traffic) Open land Index contour Open land with Paved area (heavy traffic) <u>0</u> scattered trees/bushes Form line Step or edge of paved Slope line Rough open land area Contour value Rough open land with Paved area in multilevel scattered trees/bushes Earth bank area Small earth wall Paved area with scattered Forest: easy running Erosion gully or trench Vegetation: slow running trees Undergrowth: slow running Small erosion gully Unpaved footpath Small knoll or track Vegetation: walk Small elongated knoll Small unpaved footpath Undergrowth: walk Small depression Impassable vegetation or track Pit or hole Forest runnable Less distinct small path in one direction Broken ground Narrow ride Cultivated land Prominent land form Railway Orchard Railway (uncrossable) ----Water and marsh Vineyard or similar Tramway Uncrossable body of Distinct cultivation Power line, cableway or water boundary skilift Crossable body of Distinct vegetation ATT. Major power line water Bridge boundary Waterhole Underpass or tunnel Prominent large tree Small crossable Passable wall Prominent bush or small watercourse Passable retained wall tree Minor/seasonal Impassable wall Prominent vegetation watercourse Passable fence or railing feature Uncrossable marsh 0 Impassable fence or Marsh Overprinting symbols railing Narrow marsh Crossing point Map issue point Indistinct marsh Area that shall not be Start Small fountain or well entered Course line Spring -Building Control point Prominent water Canopy Control number L feature Pillar Marked route Rock and boulders High tower Finish + Impassable cliff -Small tower E m Passable rock face Cairn, memorial, small Out-of-bounds boundary Rocky pit V V monument or Cave A boundary stone Out-of-bounds area Boulder Ťτ Fodder rack Large boulder Prominent line feature Crossing point Gigantic boulder or - -Prominent impassable rock pillar line feature Crossing section Boulder cluster . . Prominent man-made 0 Boulder field 12.20 feature Temporary construction Stony ground Prominent man-made or closed area ×× Open sandy ground feature Bare rock Copies of these map symbols and of the - 1 Stairway IOF pictorial control descriptions can be * IOF Rule 17.2: Competitors downloaded from www.maprunner.co.uk shall not enter, follow or cross The full ISSprOM 2019 specification is Technical symbols available from www.orienteering.sport

Magnetic north line

areas, routes or features drawn with these symbols.

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Orienteering Australia

www.orienteering.asn.au

Event Calendar and Registration https://eventor.orienteering.asn.au/

Information in this booklet has been gathered from a range of websites. There is a lot more info out there to explore. In particular: <u>https://orienteering.sport</u> <u>www.learnorienteering.com</u> <u>www.silva.se/guides/navigation-guide</u> <u>https://act.orienteering.asn.au/resources/skills</u>





https://oq.orienteering.asn.au/







ORIENTEERING WESTERN AUSTRALIA

https://wa.orienteering.asn.au/





https://tasorienteering.asn.au/



Orienteering Learning Centre https://learning.orienteering.asn.au/login/index.php

