



Pathfinder Honour: Requirements & Framework

Map & Compass

Part of Recreation Category of Honours

Honour Patch

[Please see p 5 for comments on patch]



Part of Wilderness

Master Honour



Snapshot of Honour

This honour provides a solid understanding of topographical maps and the practical use of a magnetic compass. It is very useful for 'cunning running' honours such as Orienteering. The focus is on map & compass skills. It does not address electronic systems such as GPS.

You will learn mapping topics such as contour intervals, grid systems, grid north, magnetic north, declination and more. You'll learn the features of an 'orienteering' compass and how to use it in conjunction with a map and when off the beaten track.

This is a comprehensive honour in which the theory and practical go hand in hand. This honour will open up a whole new world for you!

Honour History:

Original Honour: Author and date not known

General Conference: Reviewed – not applicable

South Pacific Division : Reviewed July 2010

- Paul Cresswell, John Sommerfeld, South Queensland Conference

Map & Compass Honour

Honour Framework: [Compulsory items are underlined. Others are for guidance]

#Skill Level:	Level 2
<u>Pre-requisites:</u>	Nil
Preparation Time:	Average (4-8 hrs)
Physical Requirements:	Moderate
Equipment/Materials Required:	Topographical maps, compass (preferred Silva Type 3 or equivalent), basic hiking equipment.
Location:	Indoors; Outdoors; Excursion etc
Sabbath Appropriate:	Not likely
<u>Safety & Legal Requirements:</u>	Refer to and comply with Local, State and Country Requirements. All duty of care must be complied with.
Links to P/F Curriculum: (Cards, Speciality, Pursuits), or AO Modules	
Suggested Teaching / Presentation method(s):	Presentation and Discussion; Excursion; Practical application;
Recommended Assessment:	Workbook & Assessment Sheet which has a checklist of practical requirements and a short test to check knowledge of the honour.
List of Resources:	See Trainer's Notes

#Skill Level. A General Conference term which broadly describes typical physical and mental development. Level 1 (Friends, Companions); Level 2 (Explorers, Rangers); Level 3 (Voyagers, Guides)

Honour Components:

Requirements:	See following page
Trainer's Notes:	Map & Compass Honour Trainer's Notes
Student's Workbook:	Map & Compass Honour Workbook
Assessment Sheet:	Map & Compass Honour Assessment (On SPD Honour Website but Leader's level access is required)

Map & Compass Honour

Requirements

Source: General Conference of SDA, 12 February 2010

<http://gcyouthministries.org/Ministries/Pathfinders/Honors/tabid/85/agentType/View/PropertyID/312/Default.aspx>

Note: This is a South Pacific Division (SPD) honour. It varies considerably from the above General Conference reference. Please see Explanation on Page 5.

Section 1 – The Map

- 1.1 Know the following:
 - a. What is a topographical map?
 - b. What is found on a topographical map?
 - c. Give three uses of a topographical map.
- 1.2. What is an orthophoto map?
- 1.3. Be able to recognize twenty signs and symbols found on a topographical map, giving some of each in the following categories:
 - a. Man made
 - b. Water feature
 - c. Vegetation feature
- 1.4. Know and explain the following as they relate to elevation:
 - a. Contour lines
 - b. Contour interval
 - c. Ground formations (Valley, Ridge, Spur, Bluff or Cliff, Saddle, Shoulder, Escarpment, Knoll, Brow) identified by their contour lines.
- 1.5 Know and explain the following as they relate to distance:
 - a. How distance is defined.
 - b. The map scale.
 - c. How to measure linear distance.
 - d. How to estimate land distance.
- 1.6 Know and explain the following as they relate to a map grid system:
 - a. What is the grid system?
 - b. What is a six-figure grid reference?
 - c. Rules for reading grid references.
- 1.7 Know and explain the following in relation to map reading:
 - a. Grid North.
 - b. True North.
 - c. Magnetic North.
 - d. What is Declination?
 - e. Grid Magnetic Angle (ie G-MA or GMA)?

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Section 2 – The Compass

- 2.1 What are the 8 major points of the compass and their bearings?
- 2.2 Identify the type of compass most popular with bushwalkers.
- 2.3 Know the parts of an orienteering compass.
- 2.4 Know and explain the following as they relate to Grid Bearings and Magnetic Bearings
 - a. What are Bearings?
 - b. How to calculate a Grid Bearing from the map.
 - c. How to convert a Grid Bearing to a Magnetic Bearing.
 - d. How to convert a Magnetic Bearing to a Grid Bearing.
 - e. How to take and march on a Magnetic Bearing.
 - f. What is Slipping and how to correct for it?
 - g. How to take a Back Bearing.
- 2.5 Know and explain the following as they relate to Resection.
 - a. What is Resection?
 - b. The two-bearing method of Resection
 - c. The one-bearing method of Resection
- 2.6 Know and explain how to orient your map by:
 - a. Inspection, and;
 - b. Using a compass.

Section 3 – Direction without the aid of a Compass

- 3.1 Demonstrate how to find directions without the aid of a compass using the Southern Cross (ie Crux) method

Section 4 – Practical

- 4.1 Demonstrate how to:-
 - a. Read six-figure Grid References. Refer Requirement 1.6c.
 - b. Calculate a Grid Bearing from the map. Refer Requirement 2.4b.
 - c. Convert Grid bearing to a Magnetic Bearing. Refer Requirement 2.4c.
 - d. Take a Magnetic Bearing. Refer Requirement 2.4e.
 - e. Locate a position using Resection. Refer Requirement 2.5.
- 4.2 Navigate to a target feature using a Magnetic Bearing. Refer Requirement 2.4e.
- 4.3 Prove your ability in the use of a map and compass by following a cross-country course with at least ten given readings or control points. Keep a log detailing:
 - Grid references,
 - Grid and magnetic bearings,
 - Records of actual course taken.

General Conference Reference No: Not Applicable (SPD Honour)

Map & Compass Honour

EXPLANATION OF MAP & COMPASS HONOUR AND HONOUR PATCH

Map & Compass Honour (This honour)

The patch shown is for the Map & Compass honour for the South Pacific Division (SPD). It is also used by the General Conference (GC) to designate the GC Orienteering Honour. Generally speaking, the requirements for the SPD Map & Compass honour and GC Orienteering honours have a lot in common.



Orienteering Honour for SPD

In the South Pacific Division, particularly in Australia and New Zealand, the word 'Orienteering' has a different meaning.

Orienteering is a sport which combines outdoor recreation with map reading and navigational skills. It involves navigating through the bush with the aid of a specially produced map and orienteering compass. The objective is to locate checkpoints (controls) which are sited at various natural and man-made features around the course.



In competitive orienteering, the person successfully completing their course in the quickest time is the winner.

A variety of courses are offered to suit all ages, levels of fitness and ability - from beginners through to the elite competitor. A person can walk, jog or run, depending on their level of fitness and how competitive they wish to be.