

## Workbook – Navigation in controlled environments (Adventurous Activities Basic)



Course number: .....

Course venue: .....

Course Leader: .....

Course date(s): .....

### Adventurous Activities Basic – Level 1 Common Core

### Module: Demonstrate navigation skills in a controlled environment

Candidate's personal details: **My Name:** .....

My Branch: ..... My Membership No: ..... My Scouting Role: .....

Mobile: ..... Email: ..... Address: .....

Assessment summary	Not satisfactory	Satisfactory
<b>1: Questions</b> (summative): <b>Mapping and navigation terms</b>		
<b>2: Questions</b> (summative): <b>Navigation</b>		
<b>3: Map and compass exercise</b> (summative): <b>Reading a map and using a compass</b>		
<b>4: Route planning exercise</b> (summative): <b>Plan a route in a controlled environment</b>		
<b>5: Evaluation checklist</b> (summative): <b>Navigating a planned route in a controlled environment</b>		
<b>6: Observation checklist</b> (summative): <b>Navigating a planned route in a controlled environment</b>		
<b>7: Logbook</b> (summative)		

Scout module requirements are complete

**Supervisor Name:** ..... **Signature:** ..... **Date:** .....

The candidate satisfies the requirements for the above module and is considered to be proficient.

**Scout Assessor / Instructor Name:** ..... **Scout Assessor No:** ..... & **Instructor No:** .....

**Signature:** ..... **Date:** .....

#### *Candidate's Statement of Acceptance*

I accept the assessment decision and agree that the process was valid and fair.

**OR**

I wish to appeal the assessment decision:

**Candidate's signature:** ..... **Date:** .....

#### Note to Scout Assessor / Instructor:

**When this module workbook is complete, detach this page and forward to your Branch Training Administration Officer. Return the rest of this module workbook to the candidate.**

**This page is intentionally blank – do not delete for printing**

**This module workbook is to be kept by the candidate as evidence for possible RPL**

**ASSESSMENT RESULT SHEET**



Course number: .....  
 Course venue: .....  
 Course Leader: .....  
 Course date(s): .....

**Adventurous Activities Basic  
 – Level 1 Common Core**

**Module: Demonstrate navigation skills in a  
 controlled environment**

Candidate’s personal details: **My Name:** .....  
 My Branch: ..... My Membership No: ..... My Scouting Role: .....  
 Mobile: ..... Email: ..... Address: .....

Based on my observations and from verified information available, the candidates listed above can:	Not satisfactory	Satisfactory
<b>1 Plan for navigation.</b>		
1.1 Obtain and become familiar with map or maps for the activity.		
1.2 Identify symbols and information contained on the map and how these may be used		
1.3 Apply information on the map to plan an efficient route and consider all relevant factors.		
1.4 Obtain and identify features of a compass and how it is used to maintain a designated course.		
1.5 Calculate grid and magnetic bearings using a map and compass.		
1.6 Obtain additional information to assist in navigation from the map.		
1.7 Identify emergency or contingency escape routes.		
<b>2 Navigate in controlled environments.</b>		
2.1 Orientate map to surroundings with and without the use of a compass.		
2.2 Follow a route in controlled environments, demonstrating use of navigation aids according to relevant legislation and organisational policies and procedures.		
2.3 Apply techniques for estimating distance travelled.		
2.4 Maintain, where necessary, a compass course while bypassing an obstacle.		
2.5 Identify unknown features in the field using map and compass.		
2.6 Select a route or course for the surroundings and conditions.		
<b>3 Evaluate navigations.</b>		
3.1 Evaluate relevant aspects.		
3.2 Identify improvements for future navigations		

The candidate has provided the following portfolio of evidence:  
**1: Questions** (summative): **Mapping and navigation terms**  
**2: Questions** (summative): **Navigation**  
**3: Map and compass exercise** (summative): **Reading a map and using a compass**  
**4: Route planning exercise** (summative): **Plan a route in a controlled environment**  
**5: Evaluation checklist** (summative): **Navigating a planned route in a controlled environment**  
**6: Observation checklist** (summative): **Navigating a planned route in a controlled environment**  
**7: Logbook** (summative)

The candidate satisfies the requirements for the above module and is considered to be proficient.

**Scout Assessor / Instructor Name:** .....

**Scout Assessor No:** ..... **& Instructor No:** .....

**Signature:** ..... **Date:** .....

**Appointing your Supervisor:**

All Supervisors must hold the units that they are supervising.

**Supervisor for Scout Adventurous Activities Basic Level 1 Common Core** can be a Leader who has any of the following appointments:

- Scout Association Leader who has a Level 2 in any adventurous activity with considerable adventurous activities experience
- Scout Association Guide for any adventurous activity
- Scout Association Instructor for any adventurous activity
- A person with an industry registration e.g. NOLRS registered as a Guide or Instructor for any adventurous activity

**Supervisor’s Details:**

The **Scout Adventurous Activities Basic Level 1 Common Core** course Instructor appointed this person as the candidate’s Supervisor and mentor:

Supervisor’s name: .....

Supervisor’s bushwalking qualifications: .....

Membership No: ..... Scouting Role: .....

Contact: Mobile: ..... Email: .....

**Information regarding VET Assessment:**

On successful completion of Scouts Australia Adult Training & Development modules in Adventurous Activities, candidates may apply to the Scouts Australia Institute of Training (SAIT - RTO # 5443) for Recognition of Prior Learning (RPL) for units of competence from the SIS10 Sport, Fitness and Recreation Training Package.

Candidates will need to request an RPL enrolment form from their Course Leader/Instructor/Assessor, who will provide advice about enrolment. The RPL assessment process will normally occur when sufficient modules have been completed to provide evidence towards Guide and/or Instructor Skill Sets, or for full qualifications at the Certificate II, Certificate III and/or Certificate IV levels.

Successful completion of the three modules included in the **Scout Adventurous Activities Basic Level 1 Common Core**, may provide evidence towards the RPL of the following units of competence:

- **PUAOPE002B:** Operate communications systems and equipment
- **SISONAV201A:** Demonstrate navigation skills in a controlled environment
- **SISOOPS202A:** Use and maintain a temporary or overnight site

My NAME is:

<b>Assessment 1: Questions (summative): Mapping and navigation terms</b>		
	<b>Explain the following terms:</b>	<b>Candidate's answers</b>
1	Cardinal points	
2	Marginal information	
3	Conventional sign or symbol	
4	Contour line	
5	Contour intervals	
6	Index contour lines	
7	Easting	
8	Northing	
9	Map Scale	
10	Grid north	
11	Magnetic north	

My **NAME** is:

12	True north	
13	Magnetic variation	
14	Magnetic bearing for use with a compass	
15	Grid lines	
16	Grid reference	
17	Spot Elevation	
18	Orientation	
19	Map reliability	

The candidate demonstrated knowledge of the above navigation terms and is considered to be satisfactory

**Supervisor's name:** ..... **Supervisor's signature:** ..... **date:** .....

My NAME is: \_\_\_\_\_

Assessment 2: Questions (summative): Navigation			
Questions		Candidate's answers	
1	List 6 factors or issues to consider when you are preparing a route plan for a bushwalk or canoe journey?	1 2 3	4 5 6
2	List 4 places to find information to assist with preparing a route plan for a bushwalk or canoe journey and what sort of information are you looking for?	1 2 3 4	
3	Name 4 different types of maps and briefly explain what their use is?	1 2 3 4	
4	What is the major difference between maps drawn using the datums AGD 66 and AGD 84 used prior to year 2000 and maps drawn using the GDA datum version used after year 2000?		
5	Why is it useful to understand and use Naismith's Rule when planning a bushwalk?		
6	What 2 navigation items should always be carried on a bushwalk or canoe journey and what else could be carried to assist with navigation?	Should be: 1 2	Could be: 1 2
7	List 5 features of or uses for a Silva type compass?	1 2 3 4 5	
8	List your top 5 rules and actions to follow when using and/or caring for a compass?	1 2 3 4 5	
9	Using an "attack point" is a useful navigation technique on a bushwalk. Explain how it works?		
10	"Aiming off" is also a useful navigation technique on a bushwalk. Explain how it works?		
The candidate demonstrated navigation skills and knowledge and is satisfactory			
Supervisor's Name: .....		Signature: .....	Date: .....

My NAME is:

<b>Assessment 3: Map and compass exercise (summative): Reading a map and using a compass</b>		
Using a topographical map and a compass, demonstrate to your Supervisor an understanding of navigation concepts, how to read a map and use a compass.		
<b>Using a topographical map, candidate has demonstrated an understanding of the following navigation concepts:</b>	<b>Not satisfactory</b>	<b>Satisfactory</b>
Find and explain the map index		
Find and explain the map reliability		
Orientate the map using a compass and explain how to orientate the map using features		
Find 3 points on the map that show spot elevation and give their 6 figure grid reference		
Demonstrate how to use a Romer		
Point out the following topographical features: <ul style="list-style-type: none"> <li>▪ Index contour line</li> <li>▪ Escarpment or cliff</li> <li>▪ Very steep slope</li> <li>▪ Gentle slope</li> <li>▪ Knoll</li> <li>▪ Saddle</li> <li>▪ Spur</li> <li>▪ Ridge</li> <li>▪ Ravine or deep gully</li> </ul> Watercourse		
Using the scale, measure the distance between specified points: <ul style="list-style-type: none"> <li>• In a straight line</li> <li>• Along a route with a few directional turns</li> </ul>		
Calculate the magnetic bearing between 2 designated points		
<b>Areas that need improvement:</b>		
The candidate demonstrated knowledge of the above navigation concepts and is considered to be satisfactory		
Supervisor's name: ..... Supervisor's signature: ..... date: .....		

My NAME is: \_\_\_\_\_

**Assessment 4: Route Planning exercise (summative): Plan a route in a controlled environment**

Using a route planner, topographical map and compass, plan a route in a controlled environment.  
 For this exercise use the Route Planner in the *Fieldbook for Australian Scouting* or similar  
 Copy of the Route Planner is on last page of this workbook.

<b>Based on my observations and verified information the candidate demonstrated required knowledge (in the context of a supervised activity)</b>	<b>Not satisfactory</b>	<b>Satisfactory</b>
Apply information contained on the map to plan an efficient route/course suitable to candidate's abilities		
Consider all relevant factors in route planning		
Calculate accurate grid and magnetic bearings using a map and compass		
Obtain additional information to assist in navigation from the map		
Identify emergency or contingency escape routes		
Demonstrated the required skills: <ul style="list-style-type: none"> <li>• Problem solving</li> <li>• Literacy and numeracy to calculate bearings and complete route plans</li> </ul>		

**Copy of the Route Plan is attached**

**Areas that need improvement:**

The candidate demonstrated knowledge of developing a Route Plan and is considered to be satisfactory

**Supervisor's name:** ..... **Supervisor's signature:** ..... **date:** .....

My NAME is:

**Assessment 5: Evaluation checklist (summative):  
Navigating a planned route in a controlled environment**

**Completed by SELF, PEER and GUIDE/SUPERVISOR**

- Third-party reports from a peer and supervisor detailing performance.
  - Observation of safe participation and navigating a planned route in a controlled environment
  - Seek advice and feedback from others to improve skills and ensure safety of self and group
  - Evaluate and reflect on own performance to identify strengths, weaknesses and areas that need improvement
- You should rate yourself for each of the following areas using the 6-point rating scale below. Also ask a peer who also participated in your instructional session to rate your performance in these areas as well. A supervisor should also rate you as well. You should discuss areas where you need to improve.

1. Unsure	2. Poor	3. OK	4. Good	5. Very good	6. Not applicable
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Rate how well the candidate can:	Date:	Date:	Date:
	Self	Peer	Guide/Supervisor
Understands and can read a topographical map or marine chart			
Identifies and uses map symbols and information			
Plans an efficient route			
Uses a compass to maintain a designated course			
Calculates accurate grid and magnetic bearings			
Identifies emergency escape routes			
Orientates the map to surroundings			
Follows a route in controlled environments			
Demonstrates use of navigation aids			
Apply techniques for estimating distance travelled			
Maintains course while bypassing an obstacle			
Identify unknown features in the field using map and compass			
Selects a route or course for the surroundings and conditions			
Evaluates own performance and seeks advice			

**Areas that need improvement:**

**VERIFICATION DETAILS**

	Name	Signature	Phone contact details
<b>Peer</b>			
<b>Guide/Supervisor</b>			

My NAME is:

<b>Assessment 6: Observation checklist (summative): Navigating a planned route in a controlled environment</b>			
<b>Based on my observations and verified information the candidate demonstrated:</b>	Supervisor's comments	Not satisfactory	Satisfactory
Demonstrate the manner in which a compass is used to maintain a designated course			
Demonstrate how compass use reflects understanding of the factors that affect accuracy			
Orientate map to surroundings with and without the use of a compass			
Safely follow a route in a controlled environment			
Demonstrate use of navigation aids			
Apply techniques for estimating the distance travelled			
Maintain, where necessary, a compass course whilst bypassing an obstacle			
Identify unknown features in the field using map and compass			
Select an efficient route/course for the surroundings and conditions			
Demonstrated the required skills: <ul style="list-style-type: none"> <li>• Problem solving</li> <li>• Literacy and numeracy to calculate bearings and complete route plans</li> </ul>			
<b>Areas that need improvement:</b>			
The candidate demonstrated navigating a planned route in a controlled environment and is considered to be satisfactory			
<b>Supervisor's Name:</b> ..... <b>Signature:</b> ..... <b>Date:</b> .....			

My **NAME** is:

**Assessment 7: Logbook**

Logbook has been sighted and provides satisfactory evidence of applying navigation skills in a controlled environment on multiple occasions.

**Supervisor's Name:** .....      **Signature:** .....      **Date:** .....

My NAME is:

**Navigation Activity:** Using the Route Planner below from the Fieldbook for Australian Scouting (or similar acceptable planner) and a topographical map, plan an expedition in a controlled environment.

<b>Route Planner</b>							
Expedition Date:				Map(s) used:			
Place or way point description	Grid Reference	Magnetic bearing	Distance (Km)	Height gain or loss (m)	Description of route	Estimated time for leg	Total Time
Start							
To							
To							
To							
To							
To							
To							
To							
<b>TOTALS:</b>					<b>Estimated total journey time:</b>		
Sunrise:		Sunset:		Journey start time at:		Finish / reach camp at:	
<b>Escape Routes:</b>							
1)		2)			3)		