

## **Bush 2**



Photo: Whenua Iti Outdoors

## **Scope and Syllabus**

With the support of:



# NZOIA™ Bush 2

## Scope

### Bush 2 Profile

The NZOIA Bush 2 is able to:

- Plan and prepare for a multi-day tramping trip
- Instruct safe, well managed and positive learning experiences
- Lead and manage groups away from tracks for extended periods in bush and above the bushline
- Understand global weather systems and their effects on New Zealand
- Understand the processes which underpin accepted environmental practices
- Understand the cultural and environmental history, and current context, of Aotearoa New Zealand Bush
- Prepare and apply an effective safety management plan
- Demonstrate and teach a range of technical bushcraft and navigation skills

### Scope

The NZOIA Bush 2 can organise, instruct and lead multi-day tramping trips away from tracks for extended periods in moderate and hard bush terrain. Trips can extend above the bushline in summer conditions (without snow and no snow forecast). Patches of old snow may exist and can be crossed where minimal sliding potential exists. Trips above and below the bushline can be in remote, untracked terrain. The assistance of a rope may be required.

### Prerequisites

Be a current Full Member of NZOIA

Be 20 years old or over

Hold a current First Aid Certificate (minimum of 12 hours or 2 day course including some direct contact with course tutors)

Hold a current NZOIA Bush 1 qualification. Refer to NZOIA's policy for exemptions.

Have the following experience as evidence in a logbook:

**Total experience** - 80 days tramping experience (a tramping day is considered to be at least 6 hours) including overnight trips both staying in huts and camping in established and improvised campsites and at least 30 river crossing (at least 10 of these with a group) including:

**Personal experience** - at least 40 days experience on multi-day trips

**Instructional experience** - at least 20 days instructing, leading or guiding groups on multi-day tramping trips. At least 5 river crossing sessions. Experience will include co-instructing/guiding or working as an assistant instructor/guide.

The prerequisite experience requirements are minimums, extra days are recommended so that a broad range of experience is gained.

## **Registration and Revalidation**

Registration and revalidation with NZOIA provide proof of currency for NZOIA qualification holders.

# **Syllabus**

## **Assessment Notes**

The syllabus outlines what the content of the assessment will include and gives an idea of what assessment tasks the candidate will be asked to complete. All judgements on how the candidate meets the syllabus must be based on current good practice and industry standards.

Assessors use three types of direct evidence to judge a candidate's competency:

- Written questions/assignment
- Questioning and discussion
- Observation of practical tasks

Depending on location and conditions Assessors may use scenarios for candidates to demonstrate knowledge and skills.

The NZOIA Bush 2 candidate is expected to demonstrate any of the competencies outlined in the NZOIA Bush Leader and Bush 1 Scope and Syllabus, as well as the following competencies:

## **Technical Competence**

### **1. Demonstrate advanced navigation techniques above and below the bushline**

The candidate will demonstrate:

- 1.1** Navigating across varied and steep off-track terrain above the bushline, using a map and natural features
- 1.2** Travelling on both magnetic and grid compass bearings in thick bush and/or limited visibility above the bushline
- 1.3** Navigating around an obstacle with or without use of a compass
- 1.4** Identifying current position on a map using natural features, observation, resection, and memory only
- 1.5** Compare, contrast and demonstrate use of contemporary technology e.g. Altimeter, GPS, Navigation apps

### **2. Demonstrate efficient and safe movement above and below the bushline**

The candidate will:

- 2.1** Anticipate possible hazards along a selected route using map features

- 2.2 Demonstrate awareness of discrepancies between map and ground features e.g. windfall areas, forestry operations, marked and unmarked cliffs and streams
- 2.3 Facilitate the selection of safe and efficient routes
- 2.4 Use a variety of skills and techniques to safely navigate hard terrain

### **3. Demonstrate campcraft skills above and below the bushline**

The candidate will:

- 3.1 Demonstrate selecting a campsite above the bushline and identifying any natural hazards present
- 3.2 Describe the advantages and disadvantages of different camping shelters suitable for use above the bushline e.g. tent, fly, bivvy bag
- 3.3 Describe the advantages, disadvantages and safe use of different stove types suitable for use above the bushline e.g. fuel canister, liquid fuel pressure stove
- 3.4 Demonstrate the skills required for managing gear and cooking in adverse conditions
- 3.5 Describe appropriate toileting practices for use above the bushline
- 3.6 Describe and/or demonstrate a range of fire lighting techniques appropriate for adverse conditions and different bush types

### **4. Demonstrate and instruct safe practices for river crossing and waterway travel**

The candidate will:

- 4.1 Demonstrate and describe an understanding of river hydrology
- 4.2 Demonstrate and/or describe a range of current good practice methods for crossing and travelling a variety of river types e.g. confined gorges, fast down cutting creeks, fast side streams
- 4.3 Be able to facilitate discussion of decision-making processes around river crossing and waterway travel
- 4.4 Demonstrate, instruct and critique good practice for an individual, a mutual support with a non-confident person, and a recovery swim for a given river crossing
- 4.5 Demonstrate and/or describe good practice in the use of ropes (and throwbags) for river travel and crossing

### **5. Demonstrate the care and correct use of clothing and equipment**

The candidate will:

- 5.1 Role model the use of equipment, clothing, and footwear that is in good condition, is well maintained, and is appropriate for travel above and below the bushline
- 5.2 Impart in-depth knowledge about appropriate clothing and equipment to participants, and improvise clothing and equipment if required

## **The Environment**

### **6. Demonstrate knowledge of meteorology and apply weather interpretation and forecasting skills**

The candidate will:

- 6.1** Understand global weather systems and global influences on New Zealand's weather e.g. Coriolis Effect, Hadley Cells, El Niño, La Niña
- 6.2** Interpret a synoptic weather map and make a 48-72 hour forecast for a given mountain area in New Zealand
- 6.3** Demonstrate the ability to observe changes in clouds, temperature and wind direction in a mountain area of New Zealand and based on these observations make a 24 hour forecast

### **7. Role model and promote accepted environmental practices**

The candidate will:

- 7.1** Understand the broader social and political issues regarding land use, resource management and conservation in New Zealand, and the effects of these on outdoor recreation and the environment
- 7.2** Role model and promote the principles of Leave No Trace

### **8. Demonstrate and/or describe cultural and environmental knowledge of the bush and alpine environments**

The candidate will:

- 8.1** Demonstrate a broad knowledge of the flora, fauna, geology and history of the New Zealand's bush and alpine regions
- 8.2** Describe or discuss the history and purpose of the major organisations involved in the administration, protection and advocacy of New Zealand's bush and alpine environments e.g. DOC, Federated Mountain Clubs, Mountain Safety Council, Forest and Bird

### **9. Demonstrate a knowledge of Te Ao Māori in the bush and alpine environments**

- 9.1** The candidate will be able to join discussion around links between Te Ao Māori connections with taiao/the natural environment.

Examples of concepts candidates might discuss may include but are not limited to:

- Kaitiakitanga and sustainability
- Traditional food gathering and plants used for rongōa/medicinal purposes
- Pūrākau and creation stories, and geologic and natural processes
- Trails of cultural significance (e.g. Pounamu trails) and European exploration

## **Group Management and Leadership**

### **10. Plan and prepare for a multi-day tramping trip**

The candidate will prepare a written plan for a 2-3 day tramping trip in untracked terrain above and below the bushline, which outlines:

- 10.1** The aims, objectives and purpose of the trip
- 10.2** Route information including estimated distances and times, and emergency and alternative routes
- 10.3** Risk and hazard identification and management
- 10.4** Any consent or access issues
- 10.5** Sources for weather information, and how changing weather may impact on the programme
- 10.6** Clothing and equipment list for both individuals and the group
- 10.7** Communication plan including: emergency contacts and with whom intentions will be left
- 10.8** The incorporation of Leave No Trace principles
- 10.9** Opportunities to facilitate discussion around tikanga Māori and Te Ao Māori

### **11. Apply effective safety management**

The candidate will:

- 11.1** Demonstrate the construction of an emergency shelter suitable for surviving a night above the bushline in adverse weather conditions (wind and rain), using equipment carried and natural features.
- 11.2** Be familiar with the use of and can facilitate discussion around the advantages and limitations of different types of communication devices suitable for use in bush and alpine environments e.g. mountain radio, VHF, cell phone, GPS tracker, satellite messenger, PLB
- 11.3** Demonstrate awareness of the risks and appropriate risk management strategies during a bush trip above the bushline and the ability to adjust plans when required
- 11.4** Describe safety precautions around helicopters
- 11.5** Describe the protocols around firearms in a back-country context
- 11.6** Take reasonably practicable steps to eliminate or minimise the effect of significant risks for self and others
- 11.7** Demonstrate safe practices and good judgement and decision making

### **12. Lead and manage a group in the bush and above the bushline**

The candidate will demonstrate:

- 12.1** Establishing rapport and using a leadership style appropriate to the group
- 12.2** Selecting an appropriate route above the bushline, identify the potential risks and disclose these effectively to others

- 12.3** Coordinating a group in a range of bush and above the bushline terrain e.g. thick bush, sub-alpine scrub, tussock, rocky broken ground, scree, slippery ground
- 12.4** Safeguarding a group during travel on steep terrain above the bush line using the following methods;
- route selection
  - spotting and buddy support
  - lowering packs/equipment
  - a fixed hand line with secure anchors
  - belay using a bush rope and improvised harness

## **Instruction**

### **13. Prepare and deliver instruction and teaching sessions**

The candidate will:

- 13.1** Develop aims based on knowledge of clients and timeframes
- 13.2** Plan a logical and safe sequence of teaching progressions
- 13.3** Select and prepare a suitable location for client success
- 13.4** Brief the clients and outline the learning outcomes
- 13.5** Demonstrate a wide and in-depth knowledge of the topic
- 13.6** Use a variety of clear demonstrations and explanations
- 13.7** Be able to discuss the theory behind a particular technique
- 13.8** Use appropriate terminology
- 13.9** Use a range of teaching skills and methods
- 13.10** Provide opportunities for clients to practice
- 13.11** Deliver a variety of feedback methods that are timely and specific
- 13.12** Adapt the session to suit the client needs and progress
- 13.13** Maintain a positive learning environment

Possible teaching sessions could include, but are not limited to the following:

- 13.14** Navigation and location awareness using a map and natural features
- 13.15** Advanced navigation techniques e.g. collecting features, catching features, aiming off, attack points, handrails
- 13.16** Navigating around obstacles using a compass
- 13.17** Using contemporary technology for navigation such as Altimeters, GPS, Apps
- 13.18** Mountain weather systems
- 13.19** Communication devices suitable for use in bush and alpine environments e.g. mountain radio, VHF, cell phone, GPS tracker, PLB
- 13.20** Pūrākau and Te Ao Māori
- 13.21** River crossing
- 13.22** Campcraft; Knife use, Fire-lighting techniques, Leave No Trace