

Title	Navigate in good visibility on land		
Level	2	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of navigation tools and navigate in the outdoors in good visibility.
----------------	--

Classification	Outdoor Recreation > Outdoor Navigation
-----------------------	---

Available grade	Achieved
------------------------	----------

Guidance Information

- Definitions**

Aiming off is deliberately aiming to one side of a point on a linear feature.

Attack point is an interim navigation goal.

Back bearings are compass bearings that are the reverse of the direction of travel.

Good visibility is where the horizon is visible.

Catching features indicate to the navigator they have gone too far.

Handrails are the linear features to follow.

Horizon is where the sky meets the terrain. Examples of this could include river, ridgeline, and cliff.
- NZMS 260 maps* are topographical maps published by Land Information New Zealand and available from map selling agencies throughout New Zealand.
- All activities must comply with any relevant environmental, legislative and/or regulatory requirements set out in the *New Zealand Environmental Care Code*, Health and Safety in Employment Act 1992, Injury Prevention, Rehabilitation, and Compensation Act 2001, and their subsequent amendments. *The New Zealand Environmental Care Code* is available from the Department of Conservation, Head Office, PO Box 10420, Wellington.
- There are minimum assessor requirements for assessment against this unit standard. The details of these requirements are available on the Skills Active website <https://www.skillsactive.org.nz/>.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of navigation tools.

Range map, compass.

Performance criteria

- 1.1 Map features and their functions are identified using a variety of maps.
- Range features may include but are not limited to – scales, symbols, grid lines, contours, shading;
maps may include but are not limited to – park, NZMS 260, orienteering.
- 1.2 An accurate position is fixed on a topographical map using a six-figure grid reference and map number.
- 1.3 The uses of a compass are identified and demonstrated.
- Range uses must include but are not limited to – measuring distances on a map, orientating the map north, taking and following bearings.
- 1.4 Navigation techniques are explained in terms of how and when they are most effectively used.
- Range navigation techniques must include but are not limited to – aiming off, attack points, handrails, catching features, back bearings.
- 1.5 The difference between magnetic and grid bearings are explained.

Outcome 2

Navigate in the outdoors in good visibility.

Range in at least two different locations using NZMS 260 maps.

Performance criteria

- 2.1 The map is orientated using surrounding natural features.
- 2.2 Position is correctly identified to within 100 metres using map and surrounding features as references.
- 2.3 A predetermined point is reached, following a route using map to ground techniques and navigating around hazards.
- 2.4 Accurate compass bearings are taken from a map and followed correctly with a compass.
- 2.5 Present position is identified on the map by taking a resection using three features.
- 2.6 Factors that impact on the time taken to get from one point to another are identified.
- Range factors may include but are not limited to – bridges, river crossings, obstacles, up hill, rest stops, size of group, injury.

- 2.7 The amount of time required to walk from one given point to another in a variety of tracked terrain is estimated and the variation to the actual time taken is justified.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	1 October 1993	31 December 2023
Revision	2	24 July 1996	31 December 2023
Revision	3	19 February 1998	31 December 2023
Revision	4	5 May 1998	31 December 2023
Review	5	23 February 2000	31 December 2023
Review	6	29 October 2004	31 December 2023
Review	7	28 October 2021	31 December 2023

Consent and Moderation Requirements (CMR) reference

0099

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.