



Australian Government

RIIEGS305E Navigate in remote or trackless areas

Release: 1

RIIEGS305E Navigate in remote or trackless areas

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to use a compass, plan a route and navigate in remote or trackless areas in metalliferous mining.

It applies to those working in operational roles. They generally perform tasks involving a broad range of skilled applications in a wide variety of contexts, which may involve some discretion and judgement in selecting equipment, services and contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Metalliferous mining

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to navigate in remote or trackless areas	1.1 Access, interpret and apply navigation in remote or trackless areas documentation and confirm work activity is compliant 1.2 Select the type of map(s) suitable for the activity 1.3 Identify possible sources of error and inaccuracies on the map 1.4 Identify symbols and information contained on the map 1.5 Identify the way in which relevant symbols and information on the map can be used in navigation
2. Use a compass	2.1 Identify the essential features of a compass 2.2 Demonstrate the manner in which a compass is used to maintain a designated course 2.3 Demonstrate how compass use reflects understanding of the factors

ELEMENT	PERFORMANCE CRITERIA
	that affect accuracy
3. Plan a route for remote or trackless areas	3.1 Apply symbols and information contained on the map to plan an efficient route/course suitable to navigation and activity-specific abilities 3.2 Obtain additional information to assist in the preparation of a navigation data sheet from the map and from other suitable sources of information 3.3 Identify potential hazards associated with navigating through adverse environmental conditions 3.4 Consider other contextual issues in the planning of a route 3.5 Prepare a navigation data sheet/route card according to work requirements 3.6 Identify emergency or contingency escape routes 3.7 Consider environmental impact issues in the planning of a route
4. Navigate in remote or trackless areas	4.1 Maintain orientation of map to surroundings 4.2 Identify possible sources of navigation error in specific locations 4.3 Use combined map, compass and other techniques whilst following a route in unmodified landscapes 4.4 Employ techniques for distance estimations of travel in the absence of identifying features 4.5 Maintain the designated course whilst bypassing obstacles 4.6 Maintain a course in adverse environmental conditions and/or poor visibility 4.7 Fix position accurately and regularly using a combination of appropriate navigation techniques 4.8 Select an efficient route choice for the surroundings and conditions 4.9 Employ suitable combinations of navigation techniques to fix position and identify unknown features when in unfamiliar surroundings/location

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Oral communication	Use verbal communication techniques and systems to communicate with others

Unit Mapping Information

Supersedes and is equivalent to RIIEGS305D Navigate in remote or trackless areas.

Links

Companion Volume implementation guides is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>