



Australian Government

RIIEGS303E Provide geological field assistance

Release: 1

RIIEGS303E Provide geological field assistance

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 collect and classify common rocks, ores and minerals and use geological maps and sections in metalliferous mining.

It applies to those working in operational roles. They generally perform tasks involving a prescribed range of functions involving known routines and procedures and 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 for geological field assistance	1.1 Obtain, read, interpret, clarify and confirm work requirements 1.2 Access, interpret and apply geological field assistance documentation and ensure the work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Arrange communications method and protocols with field team members 1.5 Select and wear personal protective equipment required for work activities 1.6 Select and obtain relevant geological instruments and field equipment

ELEMENT	PERFORMANCE CRITERIA
	for work activities 1.7 Perform geological instrument and field equipment checks to ensure instruments and equipment are ready for operation 1.8 Obtain and interpret emergency procedures and identify steps required in case of fires, accidents and other emergencies
2. Collect and classify common rocks, ores and minerals	2.1 Take rock, ore and mineral samples according to workplace procedures and geologists' requirements 2.2 Communicate field activities and results to relevant personnel 2.3 Examine specimens or outcrops to identify the properties and classify specimens into geological types 2.4 Compile records of all sampling results according to workplace procedures
3. Use geological maps and sections	3.1 Interpret correct symbols to read geological maps and sections 3.2 Interpret and record geological problems using block diagrams 3.3 Interpret and record geographical features from landforms and maps 3.4 Identify, in weathered outcrop, simple features as signs of the fresh rock type 3.5 Carry out basic geological surveying techniques

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
Writing	Produces and completes workplace records using appropriate vocabulary, grammatical structures and conventions
Self-management	Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

Supersedes and is equivalent to RIIEGS303D Provide geological field assistance.

Links

Companion Volume implementation guides is found on VETNet -

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

Assessment Requirements for RIIEGS303E Provide geological field assistance

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- provide geological field assistance on at least two occasions, including:
 - performing instrument and equipment checks prior to use
 - collecting and classifying rocks, minerals and ore
 - conducting basic geological surveying
 - maintaining recording and reporting systems.

During the above, the candidate must:

- locate and apply required documentation, policies and procedures
- implement the requirements, procedures and techniques for the completion of providing geological field assistance, including:
 - driving all-terrain vehicles
 - complying with environmental requirements
- work with others to provide geological field assistance that meets required outcomes, including:
 - identifying and applying communication methods and protocols
 - communicating and coordinating activities with others.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies, procedures and established requirements for providing geological field assistance, including those for:
 - sampling and sample identification
 - safe and correct use of instruments and equipment in the field

- geology of rock, ore and mineral deposits
- classification of rock, ore and minerals
- geometry of geological structures on maps and in the field
- company and site policy and procedures regarding geological field work
- types and functions of geological instruments and field equipment.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to provide geological field assistance
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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