



Australian Government

RIIEGS303D Provide geological field assistance

Release: 2

RIIEGS303D Provide geological field assistance

Modification History

Release	Comment
1	This unit replaces RIIEGS303A Provide geological field assistance
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to provide geological field assistance in Metalliferous mining.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for geological field assistance	1.1. Access, interpret and apply geological field assistance documentation and ensure the work activity is compliant 1.2. Obtain, read, interpret, clarify and confirm work requirements 1.3. Identify and address potential risks, hazards and environmental issues, and implement control measures 1.4. Arrange communications method and protocols with field team members 1.5. Select and wear personal protective equipment appropriate for work activities 1.6. Select and obtain relevant geological instruments and field equipment for work activities 1.7. Perform geological instrument and field equipment checks to
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	ensure instruments and equipment are ready for operation 1.8. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Collect and classify common rocks, ores and minerals	2.1. Take rock, ore and mineral samples according to site 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
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

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIEGS303A Provide geological field assistance

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIIEGS303D Provide geological field assistance

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of providing geological field assistance including:
 - driving all-terrain vehicles
 - complying with environmental requirements
- works effectively with others to undertake and complete the provision of geological field assistance that meets all of the required outcomes including:
 - identifying and applying communication methods and protocols
 - communicating and coordinating activities with others
- demonstrates completion of providing geological field assistance that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion 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

Knowledge Evidence

The candidate must demonstrate knowledge of providing geological field assistance through:

- methods of sampling and sample identification
- 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
- safe and correct use of instruments and equipment in the field
- sampling procedures and requirements

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years

Metalliferous Mining and Civil Construction	3-6	5 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.	

*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 frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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