



Australian Government

RIIMEX302D Assess ground conditions

Release: 3

RIIMEX302D Assess ground conditions

Modification History

Release	Comment
1	This unit replaces RIIMEX302B Assess ground conditions.
2	Amended Performance Evidence.
3	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 assess ground conditions in the Resources and Infrastructure Industries.

This unit is appropriate for those working in operational roles.

No licensing or certification requirements apply to this unit at the time of publication.

Elements and Performance Criteria

1. Plan and prepare for assessment of ground conditions	1.1 Access, interpret and apply ground condition 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 Select and wear personal protective equipment appropriate for work activities 1.5 Determine and confirm ground areas to be inspected and assessed 1.6 Obtain and interpret existing information on ground condition of each area to provide an initial assessment 1.7 Communicate and coordinate activities with others prior to, during and on completion of the work activity 1.8 Obtain and interpret emergency procedures, and be prepared for an emergency 1.9 Access area to be assessed and ensure there is adequate
---	--

	lighting to perform the assessment
	1.10 Ensure that adequate ventilation is flowing into the work area
2. Inspect and assess ground conditions	2.1 Conduct visual inspection of work area, and identify adverse conditions which could affect ground stability and safety 2.2 Conduct assessment and identify and record areas which are stable and unstable 2.3 Select and use tools, equipment and techniques to confirm ground stability of stable area, and remove loose material before commencing or continuing to next area 2.4 Install barricades and warning signs where area cannot be made safe or ground is assessed as unstable 2.5 Continuously assess ground conditions during work activities
3. Record and report ground conditions	3.1 Record ground condition assessment results and recommended corrective actions 3.2 Report ground conditions and recommended corrective actions to relevant personnel

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

RIIMEX302B Assess ground conditions

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 RIIMEX302D Assess ground conditions

Modification History

Release	Comment
1	This unit replaces RIIMEX302B Assess ground conditions.
2	Amended Performance Evidence.
3	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.

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 legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient assessing of ground conditions including:
 - selecting and using relevant tools and equipment
 - working wearing personal protective equipment
 - hazard identification and control, and reporting defects
 - ensuring environmental compliance
 - interpreting documents, plans, reports, maps, specifications
 - isolation of equipment
 - applying scale/bar down procedures
- works effectively with others to undertake and complete the assessing of ground conditions that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities
 - organising work tasks and applying diagnostic, problem solving and decision making techniques

- selecting and using communications equipment
- demonstrates completion of assessing ground conditions that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - conducting inspections of work area
 - identifying stable and unstable ground
 - selecting and using tools, equipment and techniques for assessment of ground conditions
 - installing barricades and warning signs where required

Knowledge Evidence

The candidate must demonstrate knowledge of the following when assessing ground conditions:

- site product characteristics, types of ground, and the characteristics of unsafe ground conditions including:
 - potential hazards
 - adverse conditions
- site geological and survey data
- identifying support equipment and processes, and using within technical capabilities and limitations

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 is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated 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; 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

Links

Companion Volume implementation guides are found in VETNet -

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