



Australian Government

RIIENV502E Undertake process or project environmental impact assessments

Release: 1

RIIENV502E Undertake process or project environmental impact assessments

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 undertake process or project environmental impact assessment in the resources and infrastructure industries.

It applies to those working in management roles. They generally work in teams and have some responsibility for the outcomes of others.

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

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. Describe process or project and the development environment	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to undertake process or project environmental impact assessments 1.3 Prepare a written detailed description of the process or project environment before development 1.4 Prepare process or project life cycle with detailed information on all phases
2. Identify environmental issues for process or project	2.1 Work with engineers and scientists to identify environmental issues 2.2 Assess each part of the process or project for impact on the local ecosystem according to workplace procedures 2.3 State assessment criteria clearly 2.4 Identify both positive and negative impacts 2.5 Evaluate risks and hazards associated with the process or project, both short and long term according to workplace procedures

ELEMENT	PERFORMANCE CRITERIA
3. Assess environmental impact	3.1 Assess process or project against environmental regulations, site terms, conditions, licences and company policy 3.2 Make qualified and justified assessment of impact on environment 3.3 Ensure written assessment documents are used as the scientific basis for assessment according to workplace procedures 3.4 Present written assessment in clearly written and illustrated format according to workplace procedures
4. Evaluate alternatives	4.1 Ensure all practical solutions to impact assessment are included in analysis 4.2 Prepare objective and scientifically valid alternatives 4.3 Prepare comparisons using cost benefit analysis where possible according to workplace procedures 4.4 Identify alternative processes or amended project to minimise environmental impact

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
Problem solving	Identifies a range of factors that impact on a decision, including own values and principles, the needs, power, values, beliefs and assumptions of stakeholders
Oral communication	Conveys information and requirements clearly, and listens carefully
Reading	Identifies and interprets relevant information from workplace procedures, documentation, legislation and regulations

Unit Mapping Information

Supersedes and is equivalent to RIIENV502D Undertake process or project environmental impact assessment.

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 RIIENV502E Undertake process or project environmental impact assessments

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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:

- undertake process or project environmental impact assessments on at least two occasions, including:
 - preparing written descriptions of process or project environment
 - preparing process or project life cycle
 - identifying environmental issues
 - identifying environmental assessment criteria
 - evaluating risks and hazards
 - presenting written assessment
 - preparing objective and scientifically valid alternatives
 - preparing comparisons.

During the above, the candidate must:

- locate and apply relevant legislation, documentation, policies and procedures and confirm that the work activity is compliant
- implement the requirements, procedures and techniques for undertaking process or project environmental impact assessments
- work effectively with others to undertake process or project environmental impact assessments in a way that meets all required outcomes
- communicate clearly and concisely with others to receive and clarify work instructions and to determine coordination requirements prior to commencing and during work activities.

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 legislation required to undertake process or project environmental impact assessment
- key policies, procedures and documentation required to undertake process or project environmental impact assessments, including:
 - environmental policies, goals and procedures
 - project and/or proposal phases
- principles and techniques for:
 - determining the physical environment as impacted by mining operations
 - determining the ecological environment as impacted by mining operations
 - identifying land use profiles
 - comprehending social issues as impacted by mining operations
 - determining the impact of mining operations on infrastructure
 - using data analysis systems, including statistical analysis
 - identifying support professions role and function, including engineers and scientists
 - maintaining budgeting and cost cycle planning
- principles and techniques for identifying relevant hazards and emergencies
- techniques for coordinating and communicating job activities with others.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment related to undertaking processes or project environmental impact assessments
 - relevant documentation
- 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 (RTOs) 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 Companion Volume 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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