



Australian Government

Department of Education, Employment and Workplace Relations

PUAEMR002B Identify, analyse and evaluate risk

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency to develop a prioritised list of risks for a community through the consideration of sources of risk, elements at risk and taking into account likelihood, consequence and vulnerability.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s

PUAEMR001B Establish context and develop risk evaluation criteria

Employability Skills Information

Employability Skills

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1. Identify risk

- 1.1 *Sources of risk* are identified by considering the interaction of *hazards*, communities and *the environment*
- 1.2 Elements at risk are identified by examining the interaction of *communities*, the environment and the sources of risk which affect them
- 1.3 Organisations and communities are consulted to finalise a list of perceived risks

2. Analyse risk

- 2.1 Perceived risks are analysed by considering the likelihood of an occurrence, and the consequence of an impact on the community/environment
- 2.2 The vulnerability of communities and/or environments is determined by analysing their susceptibility and resilience to risks
- 2.3 Levels of risk are identified and documented according to organisational guidelines and procedures

3. Evaluate risk

- 3.1 Risks are prioritised using agreed risk evaluation criteria

4. Monitor and review

- 4.1 Evaluated risks are monitored in accordance with *standards and guidelines*
- 4.2 Evaluated risks are reviewed in accordance with standards and guidelines

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- evaluate and prioritise risks
- facilitation
- identification of stakeholders
- negotiation with stakeholders
- problem definition
- risk analysis
- use emergency risk modelling processes to estimate risk

Required Knowledge

- emergency management concepts
- knowledge of current principles and practices to conduct activities which exercise elements of public safety management
- principles and guidelines
- problem solving and decision making techniques
- research, demographic and economic analysis techniques

Evidence Guide

EVIDENCE GUIDE

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EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential that the interactions between hazards, communities and environments be fully identified and described. Evaluation of risk must be undertaken against established criteria in consultation with relevant communities

Consistency in performance

Candidates should be expected to present evidence from within a real environment

Context of and specific resources for assessment

Context of assessment

Evidence of competence in this unit should be collected from within a real environment

Specific resources for assessment

For the demonstration of competence in this unit it will be necessary to work within a real life environment. Underpinning knowledge may be assessed through written assignments

project reports, debriefings and action learning projects

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

Range Statement

RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Sources of risk may include	commercial and legal relationships economic human behaviour natural events political circumstances technology/technical issues management activities and controls individual activities
Communities which are groups with shared associations may include	Geographically-based groupings of people such as: <ul style="list-style-type: none"> • households • neighbourhood • suburbs • towns • local government areas • cities • regions • states and the nation Shared-experience groupings of people such as: <ul style="list-style-type: none"> • particular-interest groups • ethnic groups • professional groups • language groups • age groupings Those exposed to a particular hazard Sector based groupings such as: <ul style="list-style-type: none"> • agriculture • manufacturing • commercial • mining Education sectors. It may be necessary to consider groups within these sectors (eg within the

RANGE STATEMENT

Hazards may include

manufacturing sector

The food processing group)

Functionally-based groupings such as service providers responsible for systems or networks which provide for the movement of people

Goods

Services and information on which health, safety comfort and economic activity depends (lifelines)

Organisationally-based groupings such as Government organisations

non-government organisations

Members of Parliament

any situation

condition or thing that has the potential to disrupt

damage or bring loss to things people value

Natural hazards. These include events such as:

- bushfire
- severe storm
- flood
- cyclone
- storm surge
- earthquake
- and extreme heat or cold

Technological hazards are those events caused by the failure of socio-technical systems. These include events such as:

- dam/levee failure and systems failures related to
- agriculture (eg drought)
- food contamination
- industrial sites
- infrastructure and transportation

Biological hazards. These include the spread of disease among plants, animals or people

Civil/political hazards. These include events such as:

- terrorism
- sabotage

RANGE STATEMENT

The environment

- civil unrest
- hostage situations and enemy attack

is a set of conditions or influences which surround or interact with communities and hazards

Built Environment - elements such as buildings and infrastructure which provide for the movement of people, goods and services

Physical Environment - elements from the natural environment such as:

- topographical features
- water bodies
- vegetation communities
- and ecosystems

Concepts of the environment may include

Social Environment - elements such as:

- politics
- economics
- commerce

culture and public safety service provisions which relate to how the community functions

Characteristics of hazards communities and environments include

Determination of information about significant fields such as:

- likelihood
- spatial distribution
- intensity speed of onset
- duration and the concern that the hazard arouses in the community

Standards and guidelines are to include

Australian Standard AS/NZS 4360

Emergency Risk Management Guidelines 1999

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil