



Australian Government

Department of Education, Employment and Workplace Relations

TLIX4034A Apply technical risk management systems and techniques

Release: 1

TLIX4034A Apply technical risk management systems and techniques

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to assist with aspects of risk management in relation to the technical integrity of an organisation's materiel. It specifically involves assisting in the planning, control and review of risks associated with the organisation's materiel. There are no specific licensing or certification requirements applicable to this unit.

Application of the Unit

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This unit was developed for technical regulatory framework specialists working within materiel logistics but is applicable to any individual in this field of work.

Typically these individuals must demonstrate the ability to work independently or as part of a team under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their outputs. All activities are carried out in accordance with relevant organisational policy and procedures.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

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. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Assist with risk analysis and planning	1.1 Contribution is made to identify and prioritise risks to the technical integrity of the organisation's materiel 1.2 Within delegated technical/engineering authority, input is provided to develop risk management strategies and risk management plans within established guidelines 1.3 Established risk analysis methods, techniques and tools are used to assist in the analysis of risks in accordance with organisational plans 1.4 Reporting mechanisms for risks to technical integrity are incorporated, in accordance with organisational plans
2 Conduct risk control activities	2.1 Risk control activities are undertaken in accordance with organisational plans 2.2 Risks to technical integrity are acted on within technical/engineering authority or reported to others for response 2.3 Contribution is made to the implementation of agreed risk approaches and the amendment of plans to reflect the changing context 2.4 Opportunities are identified and reported for action in the same way as risks
3 Contribute to assessing risk management outcomes	3.1 Contribution is made to the ongoing review of the technical integrity of organisational materiel to determine the effectiveness of risk management activities by accessing data and available information 3.2 Risk management issues and responses are reported to others for lessons learned or application in future technical/engineering activities

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Risk management as applied in a technical/engineering context, including principles, tools, techniques, standards and processes
- Technical regulatory framework, organisation's engineering management plan and risk management plan

Required skills:

- Apply safety, legislative and statutory requirements, including environmental, sustainability issues relevant to technical risk management
- Apply technical risk management knowledge relevant to work being performed
- Interpret organisational role relevant to technical risk management
- Operate equipment and systems relevant to technical risk management activities
- Use appropriate information technology and software

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

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

- Assessment must confirm the ability to:
 - adhere to and apply relevant data collection, storage and retrieval requirements
 - apply knowledge of technical risk management systems to assist in work and to guide problem solving
 - demonstrate understanding of personal role in relation to wider organisational or project context
- Competency should be demonstrated over time and should be observed in a range of actual or simulated work contexts
- Consistency in performance and evidence that candidates have contributed to the management of risk within projects includes applying, within authority, the requirements of the job or work role in relation to:
 - implementing, monitoring, and successfully completing risk management activities
 - contributing to reports of results
 - completing work area housekeeping requirements including the documentation of risk management activity and process outcomes
 - identifying risk
 - controlling risks
 - developing risk management strategies

EVIDENCE GUIDE

- modifying activities to cater for variations in workplace context and environment
 - monitoring risks (with emphasis on variation management)
 - reviewing risk management within the project
 - working and communicating effectively and positively with others involved in the work
- Context of and specific resources for assessment**
- Competency should be assessed in the workplace or in a simulated workplace environment
 - Access is required to:
 - computer and relevant software
 - legislation, guidelines, procedures and protocols relating to technical risk management systems and techniques
 - plans
 - workplace documentation
- Method of assessment**
- Assessment of this unit must be undertaken by a registered training organisation
 - Where possible, assessment should be supported by questions to assess required knowledge. Questioning techniques should suit the language and literacy levels of the candidate
 - Assessment methods should reflect workplace demands such as literacy and the needs of particular groups
 - Assessment methods suitable for valid and reliable assessment of this unit of competency may include a combination of methods such as:
 - authenticated evidence from the workplace and/or training programs
 - case studies
 - demonstration
 - feedback from supervisors and peers regarding the candidate's ability
 - observation
 - portfolios
 - projects
 - questioning
 - reviews or reports prepared by the candidate
 - scenarios
 - simulation or role plays

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.

- Risks may include:
- actual
 - likely/probable
 - perceived
 - potential
 - sources of technical risk and associated documents may include:
 - design change
 - Engineering Management Plan
 - Risk Management Plan
 - appropriate standards
- Delegated technical/engineering authority may include authority:
- appointed in accordance with the relevant technical regulatory framework
 - subject to frequent change in a multi-disciplinary environment
 - under limited guidance and supervision
 - within agreed authorisation and limits
 - within established organisational framework, procedures and routines
- Risk analysis methods, techniques and tools may include:
- assisting in qualitative and/or quantitative risk analysis, such as schedule simulation, decision analysis, contingency planning and alternative strategy development
 - using personal experience and/or subject matter experts
 - using specialist risk analysis tools to assist in the decision making process
- Organisational plans may include:
- engineer management plans
 - risk management plans
- Others may include:
- executive authorities
 - higher project authorities
 - other stakeholders
 - project specialists or personnel
 - regulatory authorities
 - team members

RANGE STATEMENT

Opportunities may include:

- better means of achieving a result
- changes in the regulatory framework or broader environment that offer scope for rescheduling activities to better effect
- efficiencies or methods to work more effectively, such as ways of shortening an activity
- environmental load minimisation and waste minimisation
- improvements to technical integrity
- risk mitigation

Review may include:

- changes to technical regulatory authority
- technical integrity of organisation's materiel

Data and information may include:

- financial data
- list of potential risk events (risk register/log)
- logistics data, including environmental, sustainability issues
- organisational files and records
- risk analysis and reappraisal
- risk diaries, incident logs, occurrence reports and other such documentation
- risk management lessons learned
- risk management plan
- technical data

Unit Sector(s)

Not Applicable

Competency Field

Competency Field

X - Logistics