



Australian Government

DEFGEN311 Implement and manage technical risk management

Release: 1

DEFGEN311 Implement and manage technical risk management

Modification History

Release 1. This is the first release of this unit of competency in the DEF Defence Training Package.

Application

This unit specifies the skills and knowledge required to manage risk within the organisation's environment in order to avoid adverse effects on the technical integrity of the organisation's materiel.

It includes determining, monitoring and controlling risks, and assessing technical risk management outcomes.

This unit applies to technical regulatory framework specialists working in Defence materiel logistics but is applicable to any individual in this field of work.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Typically, persons undertaking this unit work independently or as part of a team under direct and/or indirect supervision, use discretion and judgement, undertake complex tasks and take responsibility for the quality of their outputs.

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

Pre-requisite Unit

Not applicable

Competency Field

General

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 Determine risks | 1.1 Identify, document and analyse technical risks as a basis for risk planning, in consultation with relevant stakeholders and higher technical/engineering authorities |
| | 1.2 Use established risk management techniques and tools to analyse risks and assess options, in accordance with delegated technical authority |
| | 1.3 Recommend preferred risk approaches to relevant authority to meet task requirements, in accordance with delegated technical authority and organisational procedures |
| | 1.4 Develop plans, seek stakeholder agreement about plans and communicate plans effectively to ensure clarity of understanding and ongoing management of technical risk factors |
| | 1.5 Determine designated risk management processes and procedures to enable effective management and communication of risk events, responses and results |
| 2 Monitor and control risk | 2.1 Manage activities in accordance with organisational engineering management plan to ensure a common approach to achieving objectives |
| | 2.2 Monitor progress against organisational engineering management plan and risk management plan to identify variances and recommend responses to higher technical authority for remedial action |
| | 2.3 Implement agreed risk responses and modify plans to reflect changing project objectives in changing work contexts and environments |
| 3 Assess risk management outcomes | 3.1 Review outcomes of technical/engineering risk management activities to determine effectiveness of risk management processes and procedures |
| | 3.2 Identify, document and report risk issues and recommend improvements to relevant authorities to inform future applications |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to DEFCM311A Implement and manage technical risk management.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Assessment Requirements for DEFGEN311 Implement and manage technical risk management

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- adhering to relevant data collection, storage and retrieval requirements
- applying relevant legislation, regulations and organisational policies and procedures
- applying technical risk management procedures
- assessing risk management outcomes
- determining and assessing technical risks
- identifying critical indicators of technical risk and assessing the risk management system's performance appropriate to the organisational context including:
 - determining, monitoring and controlling risks
 - assessing technical risk management outcomes
- identifying, interpreting and analysing risk assessment requirements relevant to work being performed
- interpreting organisational role relevant to technical risk management
- modifying activities to manage variations in workplace context and environment
- monitoring and controlling relevant risk management
- operating equipment and systems relevant to technical risk management activities
- working and communicating effectively with stakeholders and technical authorities.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- relevant legislation, regulations and organisational policies and procedures
- relevant risk management in the context of the materiel life cycle
- relevant risk management methodologies, their capabilities, limitations, applicability and outcomes
- technical regulatory framework, organisational engineering management plan and risk management plan
- technical risk management including application in the technical/engineering context of principles, tools, techniques, standards, and processes.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools and equipment currently used in industry
- applicable documentation including workplace procedures, protocols, regulations, codes of practice and operation manuals.

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