



Australian Government

Department of Education, Employment and Workplace Relations

TLIX6051A Plan maintenance for deployed operations

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to plan logistics maintenance operations in support of organisational operations. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

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This unit of competency is applicable to logistic personnel who have a responsibility to plan and coordinate maintenance support at an organisational level.

The candidate will bring well developed management and communication skills as well as skills in the specialist discipline of maintenance support. The function is typically performed in the headquarters of an organisation with full access to information technology and support services. 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 Analyse the requirement

- 1.1 Operational task is received and analysed for maintenance requirements
- 1.2 Information is sourced and analysed to identify the maintenance factors to be considered in supporting operations
- 1.3 Recommendations are provided to management regarding maintenance support and the employment of maintenance capabilities

2 Develop the maintenance plan

- 2.1 Logistic information management systems are utilised to compile and analyse maintenance planning data and information
- 2.2 Maintenance equipment failure and repair data are used to establish the type and scope of maintenance support required for the deployment
- 2.3 Maintenance estimates are produced to support courses of action
- 2.4 Maintenance policy and procedure are reviewed and or amended or developed to support the maintenance activity within the operational area of deployment
- 2.5 Maintenance organisational structure is developed to meet the maintenance estimates within organisational resource constraints
- 2.6 The integration of contracted maintenance support is considered for inclusion in the plan
- 2.7 Technical control arrangements are established within the framework of operational command and management
- 2.8 Maintenance plan is created in accordance with organisational policy and procedures
- 2.9 Risk analysis is conducted against the maintenance plan to identify and mitigate against unacceptable risks
- 2.10 Maintenance plan is communicated to stakeholders

3 Integrate the maintenance plan with the logistic plan

- 3.1 Liaison with other logistic stakeholders is undertaken to ensure the maintenance plan is integrated into the larger logistic or operational plan
- 3.2 Maintenance plan is adjusted in accordance with changing operational need or the need to synchronise with other logistic functions

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Logistics support concepts
- Grades of repair
- Lines of maintenance support
- Types of maintenance support
- Reliability, availability, maintainability (RAM)
- Maintenance doctrine, instructions and advisory bulletins
- Technical regulations, policy and procedure
- Maintenance planning
- Integrated logistics support (ILS)
- Workflow management principles
- Backlog management principles
- Back-loading management principles
- Operational requirements of maintenance support
- Likely consequences of terrain and weather on material
- Organisational structures and support services
- Legislative and regulatory environment pertaining to materiel maintenance

Required skills:

- Interpret instructions and apply this to the development of own actions and tasks
- Analyse the complexities of a task
- Identify the operation's intent and recognise how own planning contributes to mission success
- Work cooperatively as a member of a team
- Undertake analysis to determine where internal and external factors impact on the logistic support requirements
- Use numeracy skills to accurately analyse and validate information
- Read and write at a level to cope with a range of complex workplace materials
- Use organisational skills to manage planning tasks in concert with other stakeholders
- Use problem-solving skills to apply a broad range of problem-solving strategies to planning outcomes
- Move forward despite the difficulty of the planning task
- Interpret technical policy and doctrine
- Make decisive, informed decisions that align with organisational requirements
- Use appropriate information technology and software

Required skills:

- Prepare and issue written instructions
- Use maintenance planning tools

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

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit

Context of and specific resources for assessment

- Competency should be demonstrated on at least one occasion covering the scope of the unit of competence
- Resources for assessment include:
 - access to an appropriate range of relevant operational situations in the workplace
- In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

- Assessment of this unit must be undertaken by a registered training organisation
- As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
- Practical assessment must occur:
 - through activities in an appropriately simulated environment, and/or
 - in an appropriate range of situations in the workplace

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.

Information may include:

- equipment availability reports
- production reports
- backlog reports (particularly if the backlog is manpower or repair parts related)
- estimated repair times (based on actual history)
- actual repair times
- Mean Time Between Failure / Mean Time Between Maintenance (MTBF/MTBM) for equipment types
- throughput per equipment type (how reliable an equipment type is)
- productive and non-productive times for tradespersons

Maintenance equipment failure and repair data may include:

- Mean Time Between Failure (MTBF)
- Mean Time Between Maintenance (MTBM)
- failure rate
- casualty repair grading
- repair liability
- maintenance personnel calculation
- capabilities vs requirements
- equipment casualty estimates

Maintenance estimate may include:

- mission essential equipment list
- levels of repair
- repair limits
- out of role repairs
- recovery process
- repair pools
- trade repair
- repair parts holding policy
- equipment collection points
- fleet specific equipment

Maintenance plan may include:

- maintenance policies and procedures
- technical chains of command
- technical support networks
- external support agencies
- cross-loading
- back-loading
- salvage
- cannibalisation
- destruction

RANGE STATEMENT

- repair pool holdings

Unit Sector(s)

Not Applicable

Competency Field

Competency Field X - Logistics