# DEF42712 Military Land Engineering

**Release 1**

# DEF42712 Certificate IV in Military Land Engineering

## Modification History

| Release | TP version | Comments |
|---------|-----------|----------|
| 2 | DEF12 V2 | New qualification. Equivalent to DEF41812 Certificate IV in Military Engineering. Structure and packaging rules changed. |
| 1 | DEF12 V1 | First release. |

## Description

Not applicable.

## Pathways Information

Not applicable.

## Licensing/Regulatory Information

Not applicable.

## Entry Requirements

Not applicable.

Government Skills Australia

# Employability Skills Summary

Employability Skills are part of a unit of competency.

Employability Skills statements from a selection of units of competency from the DEF42712 Certificate IV in Military Land Engineering have been reproduced in the table below.

This table provides an example of Employability Skills for the qualification because Employability Skills within a qualification will vary depending on the qualification packaging options.

Defence qualifications have core units (which must be achieved) and elective units (where there is a choice of units which must be achieved) so different Employability Skills Summaries are possible within the one qualification, depending on the package of core units and chosen elective units.

| Employability Skill | Employability Skills Statement |
|---|---|
| Communication | <ul><li>communicate and apply interpersonal skills</li><li>communicate and consult with battlespace operating system experts, commanders, other technical agencies and managers</li><li>compile reports on equity and diversity issues</li><li>complete documentation and write reports</li><li>conduct debriefs</li><li>conduct research and seek advice from relevant personnel to clarify unclear findings</li><li>develop instructions from given orders</li><li>develop techniques for giving and receiving feedback in a constructive manner</li><li>ensure written communication is to the required level to complete workplace forms and reports</li><li>identify and communicate equity and diversity strategies to team members</li><li>provide feedback on equity and diversity strategies to managers</li><li>receive, clarify, prepare and deliver orders as necessary</li><li>report shortfalls that limit capability</li><li>use verbal and non-verbal communication techniques including body language, language style and active listening</li></ul> |
| Teamwork | <ul><li>apply techniques to support others</li><li>command, lead and manage engineering personnel</li><li>direct and supervise subordinates</li><li>foster and promote equity and diversity practices</li><li>organise and direct support from outside agencies</li><li>provide assistance to maximise individual contribution to the attainment of the team objectives</li><li>supervise and monitor equity and diversity processes within the workplace</li><li>supervise engineering operations</li><li>work within a team environment</li></ul> |

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| | • understand team dynamics, aims and objectives<br>• understand the composition, roles and responsibilities of team members |
| **Problem solving** | • analyse and solve problems<br>• deal with minor incidents<br>• determine and manage constraints and risks relevant to the task<br>• identify issues, analyse circumstances and undertake research<br>• navigate by day and night, vehicle and foot<br>• resolve grievances and complaints without bias<br>• take action to correct inappropriate behaviour |
| **Initiative and enterprise** | • act independently<br>• be incisive in a fluid and demanding environment<br>• lead by example<br>• translate research and analysis into clear advice for stakeholders |
| **Planning and organising** | • apply processes to resolve grievance and complaints<br>• assemble appropriate resources for the task<br>• conduct battle procedures<br>• confirm and maintain the competence of subordinates<br>• determine and manage the constraints and risks relevant to the task<br>• draw simple construction plans<br>• identify sources of information on equity and diversity in accordance with legislative requirements, and organisational policies and practices<br>• prepare and plan for engineering operations<br>• provide advice to stakeholders within resource constraints and operational requirements<br>• understand and apply throughout the operation, occupational health and safety requirements and recognised safety precautions, including those contained in Australian Defence Force procedures |
| **Self-management** | • act independently<br>• be incisive in a fluid and demanding environment<br>• conduct post activity analysis and make subsequent recommendations<br>• ensure that the individual decision making process is conducted in accordance with standard procedures<br>• lead by example |
| **Learning** | • develop an understanding of research and analysis techniques |
| **Technology** | • operate global positioning system (GPS)<br>• operate weapons<br>• recondition, replace or return equipment, stores and ammunition where applicable<br>• undertake the construction process (including the design and use of |

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| | field machines) |
| | • use appropriate information technology and software |
| | • use computers |

# Packaging Rules

14 units of competency are required for this qualification including:

- 3 core units
- 11 elective units

Choose a minimum of 8 elective units from the Group A or B lists below, of which 5 units must be from Group A.

Choose the remaining 3 elective units from either the Group A or B elective lists below, **or** elsewhere within this training package, **or** another endorsed training package, **or** accredited course.

Where a pre-requisite unit is attached to an elective unit it is identified by this symbol ⌐.

The pre-requisite units attached to any of the elective units must be undertaken and are additional to the number of elective units required for the qualification.

The elective units should be selected from the units that most closely align to an individual's occupational outcomes.

Elective units selected must not duplicate content already covered by other units in this qualification.

| Code | Core Units |
|---|---|
| DEFCA209B | Select sites for deployment in a threat environment |
| DEFCA315B | Supervise engineering operations |
| DEFCM008B | Provide technical advice |
| **Code** | **Group A Elective Units (Specialisation)** |
| DEFCA015 | Supervise combat arms operations |
| DEFCA309B | Perform military high-risk search |
| DEFCA312B | Construct equipment bridging |
| DEFCA316B | Supervise the construction of short term roads or tracks |
| DEFCA325 | Prepare and operate a field water point |
| DEFCA326 | Operate an inland modular raft or ferry |
| DEFCA327 | Coordinate area and route search, and clearance of explosive ordnance |
| DEFCA422B | Conduct range practices |

| DEFCA423B | Manage range practices and qualifications |
| | └ DEFCA422B Conduct range practices |
| DEFCO208B | Operate in a field communications and information systems environment |
| DEFEO703C | Supervise military explosive ordnance task |
| PUAFIR306B | Render hazardous materials incidents safe |
| | └ PUAFIR215 Prevent injury |
| PSPBORD405A | Develop operational effectiveness of detector dog teams |
| PSPBORD406A | Conduct detector dog training |
| PSPGOV406B | Gather and analyse information |
| PSPPM401B | Design simple projects |
| PSPPM402B | Manage simple projects |
| PSPPM403B | Close simple projects |
| AHCSAW201A | Conduct erosion and sediment control activities |
| LGAWORK304A | Construct and maintain drainage systems |
| TLIB1001A | Check and assess operational capabilities of equipment |
| TLIB3015A | Undertake site inspection |
| **Code** | **Group B Elective Units (General)** |
| DEFCM118B | Act as a range safety officer on a permanent range |
| DEFCM119B | Conduct basic range practices on a permanent range |
| DEFCM130 | Perform the duties of a defending officer at service tribunals |
| DEFCM131 | Perform the duties of a prosecuting officer at service tribunals |
| DEFCM132 | Conduct individual and collective ceremonial drill |
| DEFCM306A | Administer personnel |
| DEFRI001B | Treat risk in defence at an operational level |
| DEFRI002B | Conduct a risk assessment in a defence environment |

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| PUATEA003B | Lead, manage and develop teams |
| PUACOM007B | Liaise with other organisations |
| PSPGOV403B | Use resources to achieve work unit goals |
| PSPGOV406B | Gather and analyses information |
| PSPGOV512A | Use complex workplace communications strategies |
| BSBMGT401A | Show leadership in the workplace |
| HLTFA412A | Apply advanced first aid<br>└ HLTFA311A Apply first aid |