



Australian Government

DEF40412 Certificate IV in Explosive Ordnance Maintenance

Release: 2

DEF40412 Certificate IV in Explosive Ordnance Maintenance

Modification History

Release	TP version	Comments
2	DEF12 V2	Layout adjusted. No changes to content.
1	DEF12 V1	First release.

Description

Not applicable.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Employability Skills are part of a unit of competency.

Employability Skills statements from a selection of units of competency from the DEF40412 Certificate IV in Explosive Ordnance Maintenance 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 style="list-style-type: none"> • communicate with supervisors, suppliers, clients and subordinates • identify and confirm requirement for explosive ordnance breakdown from work requests/instructions • identify and report breaches in site safety • liaise with supervisors, suppliers, clients and superiors as required • obtain relevant authorisation before specialised and hazardous work is carried out • prepare and provide relevant reports and documentation • use verbal and non-verbal communication techniques including language, language style, active listening
Teamwork	<ul style="list-style-type: none"> • apply team work principles and strategies • control a number of work teams • direct, brief, coordinate and monitor personnel • encourage other team members • participate in and facilitating teams • understand composition of teams, and roles and responsibilities of team members • use techniques for supporting others/team members
Problem solving	<ul style="list-style-type: none"> • apply formulae to determine the net explosive quantity and compatibility for the facility • demonstrate application of knowledge of explosive ordnance to assist in work and to guide problem solving • identify and action the requirement for waivers • undertake spatial measurement including length, width, perimeter and area • use knowledge of service environments to assist in work and guide problem solving
Initiative and enterprise	<ul style="list-style-type: none"> • initiate and monitor processes • initiate any remedial action required
Planning and	<ul style="list-style-type: none"> • ascertain availability and appropriateness of drawings, work

organising	<p>procedures and associated documentation</p> <ul style="list-style-type: none">• assess plant, equipment and tools for availability, function and serviceability• identify and allocate resources required for the processes• identify occupational health and safety policies addressing the processes and apply for the duration in all associated activities• identify resource shortfall and measures and initiate their sourcing• inspect the facility and potential explosive site to be licensed and draw conclusions and recommendations from these activities• monitor and coordinate the activities within and between processes• plan and prepare for licensing• plan the conduct of processes• research and examine the required documentation
Self-management	<ul style="list-style-type: none">• apply independent decision making• apply personal behaviour that shows sensitivity to the differences between colleagues• apply personal safety measures• interpret environmental effects relevant to explosive ordnance• meet work priorities
Learning	<ul style="list-style-type: none">• apply knowledge of general properties of explosive ordnance• learn about explosive ordnance knowledge relevant to work• understand design principles of explosive ordnance• understand effects of explosive ordnance• understand inter-operability of explosive ordnance• understand safety, legislative and statutory requirements relevant to explosive ordnance
Technology	<ul style="list-style-type: none">• apply explosive ordnance knowledge relevant to work being performed• maintain grenades• understand characteristics, technical capabilities, effects and limitations of Australian Defence Force explosive ordnance• understand technical capabilities and limitations of equipment used in the licensing process• use appropriate information technology and software• use equipment such as computers, digital cameras, laser range finders, global positioning systems• use weapon system and platform integration

Packaging Rules

17 units of competency are required for this qualification including:

- 4 core units
- 13 elective units

Choose a minimum of 11 elective units from the Group A (Specialisation) and Group B (General) lists below, of which 7 units must be from Group A.

Choose the remaining 2 elective units from either the 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 L.

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. Electives selected must not duplicate outcomes of other units.

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

Code	Core Units
DEFEO101D	Work safely with explosive ordnance
DEFEQ001C	Work with equity and diversity
BSBCMN311B	Maintain workplace safety
TLID1001A	Shift materials safely using manual handling methods
Code	Group A Elective Units (Specialisation)
DEFEO209C	Control explosive ordnance engineering and logistics processes
DEFEO211D	Apply a knowledge of explosive ordnance
DEFEO212C	License explosive ordnance facilities and potential explosive sites
DEFEO505D	Breakdown explosive ordnance
DEFEO511D	Maintain grenades
DEFEO512D	Maintain mortar ammunition
DEFEO513D	Maintain actuating devices

DEFEO514D	Maintain pyrotechnics and countermeasures
DEFEO515D	Maintain guided weapons
DEFEO516D	Maintain free flight rockets
DEFEO517D	Maintain gun ammunition
DEFEO518D	Maintain aerial delivered ordnance
DEFEO519D	Maintain mines
DEFEO520D	Maintain demolition stores
DEFEO601D	Assess explosive ordnance firings
DEFEO602C	Plan explosive ordnance trials
DEFEO603C	Conduct explosive ordnance trials
DEFEO604C	Perform explosive tests, measurements and analysis
DEFEO605D	Conduct explosive ordnance firings
DEFEO717C	Maintain aircraft egress systems
DEFEO718C	Maintain cartridge operated fire extinguisher systems
TLIF4007A	Implement and coordinate accident-emergency procedures
Code	Group B Elective Units (General)
DEFCA422B	Conduct range practices
DEFCEM118B	Act as a range safety officer on a permanent range
DEFEO202D	Establish and maintain the safety and security of explosive warehouses and workshops
DEFEO203C	Dispose of non-explosive dangerous goods
DEFEO206C	Apply a knowledge of the service environment
DEFEO207C	Inspect explosive ordnance facilities
DEFEO208C	Supervise explosive ordnance engineering and logistics processes
DEFEO213A	Establish and operate an explosive ordnance field storage site

DEFEO506D	Fuze and defuze explosive ordnance
DEFEO507D	Assemble and disassemble explosive components
DEFEO509D	Perform purging
DEFEQ002B	Supervise equity and diversity in the workplace
DEFRI001B	Treat risk within Defence at an operational level
DEFRI002B	Conduct risk assessment in a Defence environment
BSBAUD402B	Participate in a quality audit
BSBSUS301A	Implement and monitor environmentally sustainable work practices
HLTFA211A	Provide basic emergency life support
OR	
HLTFA311A	Apply first aid
PUAWER004B	Respond to workplace emergencies
TLIA2022A	Participate in stocktakes
TLIA3023A	Coordinate stocktakes
TLIB3006A	Carry out inspection of vehicles designed to carry special loads
TLIC3063A	Operate vehicle carry special loads
TLID3027A	Prepare for transport of dangerous good
TLID3015A	Identify and label explosives and dangerous goods
TLID2016A	Load and unload explosives and dangerous goods
TLIE3002A	Estimate/calculate mass, area and quantify dimensions