



Australian Government

DEF41912 Certificate IV in Explosive Ordnance Manufacture

Release: 2

DEF41912 Certificate IV in Explosive Ordnance Manufacture

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 DEF41912 Certificate IV in Explosive Ordnance Manufacture 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"> • access and clarify safety procedures and instructions • access, read, interpret and apply information on safety • conduct liaison with supervisors, suppliers, clients and superiors as required • follow instructions/directives and report information • identify and note organisation incident and injury statistics • identify and/or acquire documentation and licensing limitations • identify and recognise hazardous materials labels and characteristics, and apply relevant action/criteria • identify breaches in site safety and act on or report • obtain relevant authorisation before specialised and hazardous work is carried out • read to a level required to interpret job instructions, workplace forms and reports • use a variety of verbal and non-verbal communication techniques • write at the level required to complete workplace documentation and reports
Teamwork	<ul style="list-style-type: none"> • apply knowledge and principles of teamwork, and team aims and objectives • encourage other team members • participate in a team • understand the composition of teams, and roles and responsibility 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 • assess and apply compatibility • assess fire situation • demonstrate knowledge of explosive ordnance to assist in work and to guide problem solving • determine appropriate course of action under supervision

	<ul style="list-style-type: none"> • extinguish fires • take remedial action
Initiative and enterprise	<ul style="list-style-type: none"> • initiate any remedial action required • observe and respond to changing circumstances and unusual situations • support others/team members
Planning and organising	<ul style="list-style-type: none"> • apply occupational health and safety requirements relevant to explosive ordnance in accordance with the organisation requirements • determine processes to be performed, the resources required for their performance, the constraints imposed and any special requirements for their conduct • direct and brief coordinating and monitoring personnel • handle and move hazardous materials • identify and source materials required, and program delivery • identify resource shortfall and initiate measures for their sourcing • plan and prepare for licensing
Self-management	<ul style="list-style-type: none"> • apply independent decision making • apply personal safety measures • give and receive feedback in a constructive manner • meet work priorities • recognise and apply individual responsibilities regarding hazardous materials
Learning	<ul style="list-style-type: none"> • access, interpret and rehearse procedures related to a fire emergency • learn about competencies required by the personnel involved in the performance of the process • learn about explosive ordnance processes to be performed and the activities within those explosive ordnance processes • learn about occupational health and safety requirements • learn about reporting requirements and procedures of the organisation
Technology	<ul style="list-style-type: none"> • achieve a safe work environment when working with explosive ordnance • check equipment • identify location of firefighting equipment • use appropriate information technology and software • use equipment such as computers, digital cameras, laser range finders, global positioning systems

Packaging Rules

18 units of competency are required for this qualification including:

- 4 core units
- 14 elective units

Choose a minimum of 12 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 ⊥.

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
BSBOHS407A	Monitor a safe workplace
MSAPMOHS210B	Undertake first response to non-fire incidents
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 analyses
DEFEO605D	Conduct explosive ordnance firings
BSBWOR404B	Develop work priorities
MSAPMOPS400A	Optimise process/plant area └ MSAPMSUP390A Use structured problem solving tools
MSAPMOPS401A	Trial new process or product
PMAOPS410B	Monitor remote production facilities
PMAOPS411B	Manage plant shutdown and restart
PMASUP440B	Commission/recommission plant
TLIF4007A	Implement and coordinate accident-emergency procedures
Code	Group B Elective Units (General)
DEFEO201C	Respond to fire
DEFEO202D	Establish and maintain the safety and security of explosive ordnance 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
DEFEO506D	Fuze and defuze explosive ordnance
DEFEO507D	Assemble and disassemble explosive components
DEFEO509D	Perform purging
DEFRI001B	Treat risk within Defence at an operational level
DEFRI002B	Conduct risk assessment in a Defence environment
BSBSUS301A	Implement and monitor environmentally sustainable work practices
BSBWOR402A	Promote team effectiveness
MSACMC411A	Lead a competitive manufacturing team
MSACMT460A	Facilitate the use of planning software systems in manufacturing └ MSACMT260A Use planning software systems in manufacturing
MSACMT461A	Facilitate SCADA systems in manufacturing team or work area └ MSACMT261A Use SCADA systems in manufacturing
MSS402060A	Use planning software systems in manufacturing
MSS403001A	Implement competitive systems and practices
MSACMS401A	Ensure process improvements are sustained
MSS403005A	Facilitate use of a Balanced Scorecard for performance improvement
MSS403010A	Facilitate change in an organisation implementing competitive systems and practices
MSS403051A	Mistake proof a production process
MSS404050A	Undertake process capability improvements └ MSS404052A Apply statistics to processes in manufacturing
MSS404052A	Apply statistics to processes in manufacturing
MSS404081A	Undertake proactive maintenance analyses

MSS404082A	Assist in implementing a proactive maintenance strategy
PUAEMR022	Establish context for emergency risk assessment
PUAEMR023	Assess emergency risk └ PUAEMR022 Establish context for emergency risk assessment
PUAEMR024	Develop treatment options for emergency risk
PUAEMR025	Manage risk treatment implementation └ PUAEMR024 Develop treatment options for emergency risk
PUAEMR026	Treat operational risk └ PUAEMR027 Assess operational risk
PUAEMR027	Assess operational risk
TLIB3006A	Carry out inspection of vehicles designed to carry special loads
TLIC3063A	Operate vehicle carry special loads
TLID2016A	Load and unload explosives and dangerous goods
TLID3015A	Identify and label explosives and dangerous goods