Australian Government

DEF51412 Diploma of Explosive Ordnance Proof and Experimental

Release: 2

INDUSTRY
SKILLS
COUNCILS
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DEF51412 Diploma of Explosive Ordnance Proof and Experimental

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 DEF51412 Diploma of Explosive Ordnance Proof and Experimental 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	• access and identify safety procedures and instructions • follow instructions/directives and report information • identify and note organisation incident and injury statistics • identify and/or acquire documentation and licensing limitations • identify and report incidents • identify breaches in site safety and act or report on them • identify hazardous materials labels and characteristics, and apply recognised and relevant action/criteria • obtain relevant authorisation before specialised and hazardous work is carried out • present reports in a format that ensures the client can readily understand the determined options and solutions • provide evidence to inquiries/courts as required • read, interpret and apply information on safety • read to a level required to interpret job instructions, workplace forms and reports • record and report details of first aid administered • record and report incidents and injuries • use a variety of verbal and non-verbal communication techniques • write at the level required to complete workplace documentation and reports
Teamwork	• apply team work principles and strategies • apply techniques for supporting others/team members • delegate authority to subordinates • encourage other team members • participate in and facilitate teams • understand the composition of teams, and the roles and responsibilities of team members
Problem solving	• action reported defects/problems

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	• apply diagnostic techniques
	• check samples and analyses in accordance with laboratory procedures when non-standard results are obtained
	• conduct qualitative analysis and quantitative analysis
	• identify net explosive quantities, and calculate and monitor throughout the operation
	• perform established qualitative tests
	• prepare options and solutions in matters concerning the performance of explosive ordnance
	• provide and evaluate options
	• select appropriate solutions
	• use analytical and evaluation processes
Initiative and enterprise	• apply independent decision making
	• develop unique explosives
	• develop unique explosives within the research environment
	• initiate investigations by the Terms of Reference and/or Instruments of Appointment
Planning and organising	• collect and preserve evidence
	• conduct research
	• determine report requirements
	• determine resources required for their performance, and any special requirements for their conduct
	• establish investigation objectives
	• obtain methodology, coordination requirements and necessary authorisation to progress the investigation
	• select procedures that incorporate methods which are appropriate and feasible
	• set objectives within budget and time constraints
	• source and procure production and support materials
Self-management	• apply personal safety measures
	• apply principles of leadership
	• provide leadership to individuals and teams
Learning	• learn about organisational policies, material safety data sheets (MSDS), Australian Book of Reference 862, Book of Reference (British), organisation instructions, Depot Standing Instructions, Section Procedural Instructions (SPI), Departmental Maintenance Procedure Instructions (DMPI), Technical Instructions Armament Depots (TIAD)
	• support and participate in development activities
Technology	• handle and move hazardous materials
	• produce unique explosives
	• test and/or validate explosive models, simulation and/or prototypes
	• understand characteristics, technical capabilities, effects,

	employment and limitations of explosive ordnance • understand computer modelling relevant to explosives • understand technical capabilities, effects, employment and limitations of weapons/weapon systems • use available computer technology to control instruments or to acquire/translate/convert data

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Packaging Rules

15 units of competency are required for this qualification including:

- 5 core units
- 10 elective units

Choose a minimum of 8 elective units from the Group A (Specialisation) and Group B (General) lists below, of which 5 must be from the Group A list.

Choose the remaining 2 elective units from 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
DEFEO101D	Work safely with explosive ordnance
DEFEQ001C	Work with equity and diversity
HLTFA211A	Provide basic emergency life support
PSPOHS301A	Contribute to workplace safety
TLID1001A	Shift materials safely using manual handling methods
Code	**Group A Elective Units (Specialisation)**
DEFTE001A	Plan testing and evaluation processes
DEFTE002A	Prepare testing and evaluation processes
DEFTE003A	Conduct testing processes
DEFTE004A	Evaluate testing
DEFTE005A	Produce test and evaluation reports
DEFEO205C	Conduct technical explosive ordnance investigations
DEFEO210C	Manage explosive ordnance engineering and logistics processes
DEFEO709D	Apply explosive ordnance design principles

Code	Group B Elective Units (General)
DEFCM008B	Provide technical advice
DEFEQ003B	Manage equity and diversity
DEFOH006B	Develop radio frequency radiation safety plans
DEFOH008B	Develop ionising radiation safety plans
DEFOH011B	Develop laser safety plans
DEFRM201B	Develop and maintain range standing orders
DEFRM202B	Approve training area and range activities
DEFRM204B	Monitor and control training area and range activities
DEFRM205B	Manage emergency operations
DEFRM206B	Conduct range inspections
DEFRM208B	Manage training area and range contamination
DEFRM209B	Supervise contractors
DEFRM210B	Monitor and implement environmental plans and procedures
BSBMGT502B	Manage people performance
BSBSUS301A	Implement and monitor environmentally sustainable work practices
BSBWOR501B	Manage personal work priorities and professional development
BSBWOR502B	Ensure team effectiveness
PSPPM501B	Design complex projects
PSPPM502B	Manage complex projects
PSPPM503B	Close complex projects
PSPPM504A	Carry out complex project activities
PUACOM002B	Provide services to clients
PUACOM007B	Liaise with other organisations
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
PUATEA003B	Lead, manage and develop teams
PUAWER004B	Respond to workplace emergencies
TLIA5029A	Plan and manage storage of dangerous goods and hazardous substances