Australian Government

DEF51312 Diploma of Explosive Ordnance Manufacture

Release: 2

ISC INDUSTRY SKILLS COUNCILS
Creating Australia's Future

DEF51312 Diploma of 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 DEF51312 Diploma of 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	• adjust and document recommendations if required • communicate with others • conduct interviews • liaise with client/customer • prepare and present investigation reports • prepare letters and reports to a level required • present reports in a format that ensures the client can readily understand the determined options and solutions • provide evidence to inquiries/courts as required • record outcomes of the analysis and provide recommendations relevant to safety, legislative and statutory requirements
Teamwork	• apply principles of teamwork, and team aims and objectives • apply techniques for supporting others/team members • encourage other team members • facilitate a team • participate in a team • understand composition of teams, and roles and responsibility of team members
Problem solving	• apply analytical and evaluation processes • apply formulae to determine the net explosive quantity and compatibility for the facility • assess fire situation and determine appropriate course of action • demonstrate application of knowledge of explosive ordnance to assist in work and to guide problem solving • prepare options and solutions in matters concerning the performance of explosive ordnance • provide and evaluate options • select appropriate solutions
Initiative and enterprise	• observe and respond to changing circumstances and unusual situations

	• support others/team members
Planning and organising	• access and analyse relevant explosive ordnance information • apply occupational health and safety requirements relevant to explosive ordnance in accordance with the organisation requirements • assess, review and record effectiveness of the recommendations • collect and preserve evidence • conduct research • determine report requirements • establish investigation objectives • examine evidence using research methodology that meets relevant standards and procedures • gain agreement on methodology, coordination requirements and necessary authorisation to progress the investigation • identify emergency alarms and match with response requirement • plan and prepare for licensing • select procedures that incorporate methods which are appropriate and feasible • set objectives within budget and time constraints
Self-management	• adhere to relevant occupational health and safety requirements and operational safety • calculate licensing requirements • conduct inspections • maintain documentation • read and understand relevant workplace documentation • recognise individual responsibilities regarding hazardous materials
Learning	• access, interpret and rehearse procedures related to a fire emergency • learn about guidelines and codes of practice that cover technical specifications • learn about legislative requirements considered in the examination of evidence • learn about relevant Australian and international standards • learn about safe handling of hazardous materials and quality assurance procedures • learn about types, operations and application of firefighting equipment including extinguishers, hose-reels and, where appropriate, monitors • submit a portfolio of licensing documentation conducted over a range of facilities
Technology	• achieve a safe work environment when working with explosive ordnance • apply knowledge of characteristics, technical capabilities, effects, employment and limitations of explosive ordnance

	- apply knowledge of weapon system and platform integration - apply spatial measurement including length, width, perimeter and area - examine electronic and manual records - identify location of firefighting equipment and check the equipment - use appropriate information technology and software - use equipment such as computers, digital cameras, laser range finders, global positioning systems

Packaging Rules

16 units of competency are required for this qualification including:

- 4 core units
- 12 elective units

Choose a minimum of 10 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
BSBOHS509A	Ensure a safe workplace
MSAPMOHS210 B	Undertake first response to non-fire incidents
TLID1001A	Shift materials safely using manual handling methods
Code	**Group A Elective Units (Specialisation)**
DEFEO205C	Conduct technical explosive ordnance investigations
DEFEO210C	Manage explosive ordnance engineering and logistics processes
DEFEO211D	Apply a knowledge of explosive ordnance
DEFEO212C	License explosive ordnance facilities and potential explosive sites
DEFEO602C	Plan explosive ordnance trials
DEFEO603C	Conduct explosive ordnance trials
DEFEO604C	Perform explosive tests, measurements and analyses

DEFEO605D	Conduct explosive ordnance firings
DEFEO606D	Develop unique explosives
DEFEO607C	Determine the properties of explosive ordnance
DEFEO709D	Apply explosive ordnance design principles
MSAPMOPS401A	Trial new process or product
PMASUP540B	Analyse equipment performance
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
PUAEMR030	Manage and evaluate emergency management exercises
PUAEMR031	Design emergency management exercises
Code	**Group B Elective Units (General)**
DEFEO201C	Respond to fire
DEFEO206C	Apply a knowledge of the service environment
BSBMGT502B	Manage people performance
BSBMGT515A	Manage operational plan
BSBMGT516C	Facilitate continuous improvement
BSBSUS301A	Implement and monitor environmentally sustainable work practices
BSBWOR501B	Manage personal work priorities and professional development
BSBWOR502B	Ensure team effectiveness

MSACMS601A	Analyse and map a value chain ∟ MSACMT631A Undertake value analysis of product costs in terms of customer requirements
MSACMS602A	Manage a value chain ∟ MSACMS601A Analyse and map a value chain ∟ MSACMT631A Undertake value analysis of product costs in terms of customer requirements
MSACMT621A	Develop a Just in Time (JIT) system ∟ MSACMC410A Lead change in a manufacturing environment
MSACMT630A	Optimise cost of product ∟ MSACMT631A Undertake value analysis of product costs in terms of customer requirements
MSACMT631A	Undertake value analysis of product costs in terms of customer requirements ∟ MSACMT230A Apply cost factors to work practices
MSS015002A	Develop strategies for more sustainable use of resources
MSS404052A	Apply statistics to processes in manufacturing
MSS405001A	Develop competitive systems and practices for an organisation
MSS405004A	Develop business plans in an organisation implementing competitive systems and practices
MSS405020A	Develop quick changeover procedures
MSS405040A	Manage 5S system in an organisation
MSS405050A	Determine and improve process capability ∟ MSS404052A Apply statistics to processes in manufacturing
MSS405060A	Develop the application of enterprise control systems in an organisation
MSS405061A	Determine and establish information collection requirements and processes
MSS405070A	Develop and manage sustainable energy practices
MSS405075A	Facilitate the development of a new product

	└ MSS404052A Apply statistics to processes in manufacturing
MSS405081A	Develop a proactive maintenance strategy
PUACOM002B	Provide services to clients
PUACOM007B	Liaise with other organisations
PUATEA003B	Lead, manage and develop teams