



Australian Government

DEF32212 Certificate III in Sensor Operations

Release: 2

DEF32212 Certificate III in Sensor Operations

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 Summary for DEF32212 Certificate III in Sensor Operations

Employability Skills are part of a unit of competency.

Employability Skills statements from a selection of units of competency from the DEF32212 Certificate III in Sensor Operations 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.

Employability Skill	Employability Skills Statement
Communication	<p>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.</p> <ul style="list-style-type: none"> • access, interpret and rehearse fire emergency procedures • adjust own communication styles to reflect equity and diversity principles • ensure that information, knowledge and skills are communicated effectively and shared • apply interpersonal and cross-cultural communication strategies • apply appropriate techniques when providing constructive feedback to other team members, and giving and receiving support to/from team members • discuss concerns about inability to perform allocated work to organisation's standards with relevant personnel • establish internal and external communications • follow directives/instructions and report information • follow legislative and statutory requirements • follow standard procedures, communication procedures, safety procedures, instructions, and organisation policies and guidelines • identify, interpret and apply Defence security procedures • maintain effective communication by using clear and concise procedures • maintain effective reporting procedures • observe and use correct voice procedures • process messages in line with specific workplace requirements • process, transmit and receive messages via voice systems • protect classified and sensitive material when passed over communications paths • provide timely and accurate reports • receive and apply orders and send and receive simple non-verbal signals

	<ul style="list-style-type: none"> • report any faults, problems or issues • report breaches of physical security and security violations • report, display and disseminate intercept details • use verbal and non-verbal communication techniques including language style, active listening
Teamwork	<ul style="list-style-type: none"> • assist in the completion of tasks when requested by other team members and is appropriate • contribute to identifying team goals and objectives • encourage and acknowledge participation by team members • monitor the performance of others and take appropriate action through coaching and mentoring • recognise, value and adjust own behaviour to individual differences in the workplace by treating others with respect and dignity • seek support where required to enable identification and implementation of positive alternatives to personal problems • share and communicate effectively between team members, information, knowledge and skills relevant to work • transfer radar system operation to a new operator as required • transfer the following to a new operator (as required): sonar system operation, torpedo fire control panel system operation, electronic support suite operation, decoy system status • understand principles of teamwork and team's aims and objectives • work in an acceptable and non-discriminatory manner while establishing rapport and good working relationships with all colleagues • work with others and make a positive contribution to the effectiveness and efficiency of a team
Problem solving	<ul style="list-style-type: none"> • analyse and collate electromagnetic information to identify and classify electronic support suite intercepts • assess a fire situation and determine an appropriate course of action • calculate range predictions • collate and analyse information to identify and discriminate radar contacts • collate and analyse information to identify sonar contacts • continuously collect, collate and analyse relevant information • detect contacts via electronic means (or sonar where applicable) • effectively react to changes in the operating environment necessitating re-planning of course • extinguish fires • interpret cartographic information, navigation techniques, local and environmental conditions

	<ul style="list-style-type: none"> • navigate to destination • respond to threats • understand cryptographic materials • use calculations for oceanographic data interpretation
Initiative and enterprise	<ul style="list-style-type: none"> • use improvised techniques appropriately such as minimising personal signature
Planning and organising	<ul style="list-style-type: none"> • assess and set priorities for work load within allocated timeframes • collect acoustic information from other sensors/sources • collect electromagnetic information using passive electronic support • configure radar system and collect information using radar identification friend from foe (IFF) and other available sensors/sources • configure sonar system and/or electronic support suite system • demonstrate understanding of, and apply throughout operation, occupational health and safety requirements and recognised safety precautions including those contained in the Australian Defence Force procedures • establish torpedo fire control panel • identify impact, assess and take appropriate action on factors affecting work requirements to ensure requirements are met • observe designated dress codes • prepare decoy systems
Self-management	<ul style="list-style-type: none"> • commit to the jurisdiction's laws and organisation policy, procedures and standards • comply with workplace equity and diversity practices • conduct self in a manner that shows sensitivity to the differences between colleagues • ensure personal preparation is carried out • identify, plan and implement personal development strategies • maintain high standards of performance, ethics and integrity • maintain safety for self and others • monitor and manage personal physical and emotional health • regularly seek formal and informal performance feedback • review, monitor and self-assess own performance
Learning	<ul style="list-style-type: none"> • access, interpret and rehearse fire emergency procedures
Technology	<ul style="list-style-type: none"> • check, identify, select and use firefighting equipment • confirm serviceability of radar system • confirm serviceability of sonar system • correctly configure communication circuit

	<ul style="list-style-type: none">• correctly prepare communication equipment• ensure all relevant equipment is optimised for operator use• ensure circuit procedures comply with workplace requirements• ensure outside environmental conditions are determined and system is optimised accordingly• operate decoy systems in an operational environment• operate electronic support suite in an operational environment• operate a radar system in an operational environment within a team• operate a sonar system in an operational environment• operate a torpedo fire control panel in an operational environment• process, transmit and receive messages via voice systems• recover, reset, update and service navigational equipment• understand basic principles and characteristics of either anti ship or anti ship missiles• understand radar principles• understand the basic principles and characteristics of radar• use daily system operability tests (DSOTS)• use IFF equipment• use sonar/ torpedo fire control panel equipment
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Packaging Rules

13 units of competency are required for this qualification including:

- 5 core units
- 8 elective units

Choose a minimum of 6 elective units from the Group A (Specialisation) and Group B (General) elective lists below, of which 3 must be taken 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
DEFCO401C	Maintain security in a Defence communications and information systems environment
DEFCO406A	Transmit and receive messages via voice
DEFSO001C	Operate a radar system
DEFSO007A	Provide general support to combat systems operations
PUATEA004D	Work effectively in a public safety organisation
Code	Elective Units
Group A (specialisation)	
DEFSO002C	Operate a sonar system
DEFSO003C	Operate a torpedo fire control system
DEFSO005C	Operate decoy systems
DEFSO006A	Optimise and monitor sensor display
DEFSO008A	Support the compilation of the tactical picture

TDMMH507B	Use radar and other bridge equipment to maintain safe navigation
Group B (general)	
BSBADM101A	Use business equipment and resources
BSBINM201A	Process and maintain workplace information
BSBOHS201A	Participate in OHS processes
BSBSUS201A	Participate in environmentally sustainable work practices
BSBWRT301A	Write simple documents
DEFCO405C	Conduct operator level maintenance in a Defence environment
DEFEO201C	Respond to fire
DEFEQ001C	Work with equity and diversity
PUAOPE015A	Conduct briefings and debriefings
PUATEA001B	Work in a team
PUATEA002B	Work autonomously
PSPSEC405A	Handle security classified information