



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCA317B Coordinate area and route search, and clearance of explosive ordnance

Release: 1

PUADEFCA317B Coordinate area and route search, and clearance of explosive ordnance

Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency required to plan and direct high-risk search tasks as part of an *obstacle reduction* to provide an unhindered and safe path. The individual will always lead a team and work autonomously.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package. This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s

PUADEFEO703B Supervise explosive ordnance task
PUADEFEO712B Lay and clear booby traps
PUADEFEO713B Lay and clear mines

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<p>1. Plan area and route clearance</p>	<p>1.1 Requirement is received, understood and confirmed with higher authority as necessary</p> <p>1.2 Resource availability and serviceability is identified and constraints are determined</p> <p>1.3 Reconnaissance is conducted in accordance with <i>standard procedures</i></p> <p>1.4 Clearance plan is developed in accordance with design, resources, risks and <i>environmental considerations</i></p> <p>1.5 Problems that cannot be resolved locally are referred to higher authority for resolution</p> <p>1.6 Competence of team members is confirmed and monitored</p> <p>1.7 Clearance team is briefed in accordance with standard procedures</p> <p>1.8 Liaison is undertaken with <i>outside agencies</i> as required</p> <p>1.9 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures</p>
<p>2. Supervise area and route clearance</p>	<p>2.1 Clearance team is directed and supervised in accordance with the clearance plan</p> <p>2.2 All <i>unexpected situations</i> that require a quick and decisive response are recognised and responded to in accordance with operational requirements and standard procedures</p> <p>2.3 Checks are completed for safety signage, lane marking and fencing in accordance with standard procedures</p> <p>2.4 Information is recorded throughout operation and reported to outside agencies as necessary</p> <p>2.5 Support from outside agencies is organised and directed</p> <p>2.6 Technical advice is provided to the chain of command or support agencies</p>
<p>3. Finalise the task</p>	<p>3.1 Higher authority is notified that clearance is complete in accordance with standard procedures</p> <p>3.2 Post activity analysis is conducted and subsequent recommendations are made in accordance with standard procedures</p> <p>3.3 Equipment and stores are reconditioned, replaced or returned as applicable</p> <p>3.4 Documentation is completed in accordance with</p>

standard procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- accurately compile minefield records
- analyse the threat - tactics, techniques and procedures
- collect and report information for intelligence
- destruct malfunctioned explosive ordnance
- employ chemical detectors
- employ clearance methods
- employ hazard marking
- employ RRAMNS
- employ Rules of Evidence
- employ Rules of Engagement
- enforce explosive safety distances
- lay, arm, neutralise and disarm mines and booby traps Navigate with compass and GPS
- plan road and route repair
- rapid calculation of blast effects
- use and employ electronic metal detector

Required Knowledge

- blast effects
- breaching techniques
- characteristics, technical capabilities, effects, employment and limitations of electronic metal detectors, chemical detectors
- characteristics, technical capabilities, effects, employment and limitations of mines, booby traps and battlefield ordnance
- clearance methods
- destruction of malfunctioned explosive ordnance
- explosive safety distances
- GPS
- intelligence - collection and reporting
- navigation techniques
- obstacle effects and obstacle construction
- recording requirements such as minefield records
- relevant OH&S regulations/requirements, equipment, material and personal safety requirements
- road and route repair techniques
- supervision requirements of explosive users/workers

REQUIRED SKILLS AND KNOWLEDGE

Evidence Guide

EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to coordinate clearance of at least a 50 metre route. The route must contain obstacles of explosive ordnance that as a minimum includes mines and booby traps. The individual should be exposed to the extremes of the operational environment where a person is under physical and mental stress.

Consistency in performance

Competency should be demonstrated over time in a range of realistic operational scenarios.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in simulated work environment that replicates the operational threat environment. The person should be exposed to the extremes of the operational environment under physical and mental stress. The context of assessment is simulated due to the nature of this high-risk environment.

Specific resources for assessment

Access to resources as listed in the Range Statement; suitable site clearance team; and communications equipment.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

Range Statement

RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Obstacle reduction	<p>Is the creation of a safe path through an obstacle which may be widened to the boundaries/extremities for the complete removal of the obstacle</p> <p>Can be accomplished by the use of explosive or non-explosive methods, including the tasking of purpose designed clearance vehicles and plant equipment</p>
Resources may include	<p>Cranes</p> <p>Earth moving equipment</p> <p>Electronic metal detectors</p> <p>Explosives and ancillary equipment</p> <p>Hand held prodder</p> <p>Personal protective equipment</p> <p>Rapid route and area mine neutralisation system</p> <p>Remote positioning devices</p> <p>Signage</p>
Reconnaissance may include	<p>Area observation</p> <p>Collecting demographic and infrastructure intelligence</p> <p>Collecting topographical information</p> <p>Forming up point marking</p> <p>Locating obstacle positions</p> <p>Obstacle boundaries</p> <p>Risk and environmental assessment</p> <p>Route marking</p>
Standard procedures may include	<p>Australian Standards</p> <p>Job guides, pamphlets and other publications</p> <p>Manufacturers' handbooks, industry specifications and technical instructions</p> <p>OH&S regulations</p> <p>Organisational policies and procedures</p> <p>Relevant local government by-laws</p> <p>Relevant state/territory or federal legislation or regulations</p> <p>Written and verbal orders and job instructions</p>
Environmental considerations may include	<p>Day or night</p> <p>Threat</p> <p>Tactical</p> <p>Flora and fauna</p>

RANGE STATEMENT

Geographical features
Variations in weather conditions

RANGE STATEMENT

Outside agencies may include

Cordon
 Government agencies
 Non-government organisations (NGOs)
 Police

Unexpected situations may include

Booby traps
 Casualties or death
 Environmental
 Equipment malfunction
 Improvised explosive devices
 Unauthorised personnel

Information may include

Activity log
 Available time
 Clearance rate
 Defined perimeter
 Maps
 Obstacle identification and location
 Personnel - witness, etc.
 Threat:

- aim/target
- type, quantity and location of mines, booby traps, unexploded ordinance etc.
- tactics, techniques, procedures
- intent, mobility, capability, vulnerability

 Threat assessment

Equipment and stores may include

Binoculars
 Chemical detectors (electronic, chemical reaction, etc.)
 Communications equipment
 Compass
 Explosives and accessories
 First aid kit and stretcher
 Global Positioning System (GPS)
 Lighting and power source
 Metal detectors
 Mine marker
 Personal Protective Equipment (PPE):

- ballistic helmets
- ballistic jacket and pants
- ballistic goggles/visor

 Prodder
 Rapid Route and Area Mine Neutralisation System (RRAMNS)

RANGE STATEMENT

	Tools - hand and powered Vehicles Weapons
Documentation may include	Activity log After action reports Environmental compliance Equipment documentation Maps Minefield records

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil