



Australian Government

DEFRM211B Site range complexes

Release: 2

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Modification History

Release	TP version	Comments
2	DEF12 V2	Layout adjusted.
1	DEF12 V1	First release.

Unit Descriptor

This unit covers the competency required to site range complexes as a member of a Range Siting Board. It includes the processes of siting individual ranges or a group of ranges as part of a range complex ensuring the efficient utilisation of land and the safety requirements related to the use of weapons and ammunition.

Range inspectors in the Department of Defence are appointed to all Range Siting Boards and are the one individual on that board with experience in the siting of ranges and range complexes.

Application of the Unit

This unit was developed for range management and range control work within Defence but may be applicable to work in this field.

Typically people who or apply this unit, would work independently or as part of a team under direct and indirect supervision, use discretion and judgement and take responsibility for the quality of their outputs. All activities are carried out in accordance with relevant organisational policies and procedures.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

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 Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare to site range complexes	1.1 Appointment to the Range Siting Board is identified and confirmed with relevant personnel 1.2 Range user requirement is identified and researched 1.3 Resources required for the Range Siting Board are identified and acquired where appropriate 1.4 Liaison is established and maintained with other board members as required
2. Site range complexes	2.1 Options to meet the user requirement are developed in accordance with Range Siting Board requirements 2.2 Reconnaissance of proposed and alternate range site is undertaken in accordance with Range Siting Board requirements 2.3 Proposed and alternate sites are assessed in accordance with user requirements 2.4 Technical advice is provided to guide Range Siting Board members in their considerations 2.5 Best option is selected in consultation with Range Siting Board members
3. Finalise Range Siting Board reports	3.1 Proposed range development and works proposals are produced in accordance with the Range Siting Board terms of reference 3.2 Proposed range templates and traces are adjusted and finalised in accordance with statutory requirements 3.3 Final report is contributed to in accordance with Range Siting Board requirements 3.4 Range inspector's report is finalised and appended to the Range Siting Board final report in accordance with the terms of reference

Required Skills and Knowledge

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

Required Skills

- apply environmental issues relevant to ranges
- conduct liaison
- exercise judgement in relation to range safety
- interpret and apply range safety requirements
- interpret range specifications and construction requirements
- interpret range user requirements
- interpret weapon and ammunition specifications and effects
- operate geographical information systems
- operate range communication facilities
- operate specialist measuring instruments
- use a variety of verbal and non-verbal communication techniques
- visualise and/or draw proposed range layouts
- work in teams
- write at the level required to complete workplace documentation and reports

Required Knowledge

- application of ammunition danger area traces and templates
- composition of teams and roles and responsibilities of team members
- environmental issues relevant to ranges
- geographical information systems
- map reading and navigation techniques
- photography
- planning processes
- range safety requirements
- range specifications and construction
- range user requirements for all services
- reporting requirements
- team work and collaboration processes
- techniques for supporting others/team members
- verbal and non-verbal communication techniques including, language style, active listening
- weapon and ammunition specifications and effects
- works proposal processes
- written communication to a level required to complete workplace documentation and reports

Evidence Guide

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

Assessment must confirm the ability to prepare for the Range Siting Board, exercise judgement on the safety and feasibility of the proposal, liaise and work with the other Board members, site the range, and prepare and present relevant inspection reports.

Consistency in performance

Competency should be demonstrated in a range of actual or simulated range siting contexts.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated work environment, in accordance with all relevant legislation and organisation requirements. A portfolio of a range of appropriate reports should be submitted as evidence for assessment.

Specific resources for assessment

Access is required to a Defence training area.

Guidance information for assessment

In all cases assessment should be supported by questions to assess knowledge and those aspects of competency which are difficult to assess directly.

Questioning techniques should suit the language and literacy levels of the candidate.

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.

<i>A range</i> may include:	• All air, land and/or sea areas used for Defence live-firing weapons practices, tests or operations
<i>The Range Siting Board</i> has the purpose of:	• Ensuring that a new range or training area is sited in accordance with current policy in regards to safety, design, construction costs and environmental considerations, and that it makes best use of the space of the training area • Being convened when: • a new or changed user requirement is identified for a training area, either regionally or at group level • a new training area or range is proposed, either on or off commonwealth property • Changes are proposed to an existing range or training area which might affect the operation of the facility
<i>Research requirements</i> may include:	• Air space management arrangements • An assessment of weapons and ammunition natures • Landowners • Locality • Maps, plans and air photo requirements • Planning authorities of proposed site • Production of templates and traces • Safety and design specifications • Zoning
<i>Resources</i> may include:	• Batteries • Compass • Computers • Digital cameras • Geographical information systems • Global positioning system receivers • Maps and digital geographic information • Measuring instruments • Radios • Vehicles
<i>Options</i> may include:	• Proposing different solutions • Recommending different locations

	• Rejection of the proposal
Reconnaissance may include:	• Feasibility of proposal related to the ground, including safety and workability • Ground assessment, including a visualisation of the proposed range on the ground • Identifying alternate sites
Assessment may include:	• Considerations of: • access and egress • air space • buffer zones • concurrent use separations • control • environmentally sensitive areas • ground • noise • security • types of practices proposed • vegetation • and may also include development requirements and works requirements
Range development and works proposals may include:	• Application of standards and specifications of range construction applicable to the type of range being proposed • Cost estimates for construction/development
Range templates and traces may include:	• Ammunition danger area templates • Laser traces/templates • Range danger area trace
Range inspector's report may include:	• And may also require the production of range standing orders when applied to a civilian rifle club ranges being used by the military • Limitations and restrictions • Review and drafting of changes to existing range standing orders • Technical specifications

Unit Sector(s)

Not applicable.