



Australian Government

DEFMIL093 Assist in the construction of dry gap crossings

Release: 1

DEFMIL093 Assist in the construction of dry gap crossings

Modification History

Release	Comments
1	This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to DEFCA322 Assist in the construction of dry gap crossings. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • PC 2.3 removed • PC 1.3 and 3.2 revised

Application

This unit describes the skills required to assist in the preparation, construction, maintenance and recovery of dry gap crossing bridging equipment to cross any form of gap, including rivers and streams, to facilitate the movement of personnel, vehicles, cargo and equipment. When the crossing is no longer required the bridge is either recovered to storage or redeployed to another crossing.

This unit applies to for combat engineer personnel involved in the construction of dry gap crossings in a deployed operational environment.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would usually be engaged in bridge construction as part of a team under supervision, but may undertake some autonomous tasks. They would perform routine tasks in a broad range of unpredictable contexts.

No licensing, legislative or certification requirements apply to unit at the time of publication.

Competency Field

Military Skills

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Plan and prepare for dry gap crossing operations	1.1 Select and wear appropriate personal protective equipment. 1.2 Conduct site layout and preparation. 1.3 Check dry gap crossing bridging components against inventory and materials list for completeness and prepare for operation. 1.4 Report faults and deficiencies in bridging components. 1.5 Select tools and equipment, check for serviceability and report faults.
2. Construct a dry gap crossing	2.1 Assemble and adjust ready for use jigs, fixtures and tools to be used in construction. 2.2 Assemble bridge components and check for compliance, accuracy and alignment.
3. Maintain and clean-up site and equipment	3.1 Maintain gap crossing sites and crossing systems. 3.2 Recover, clean and maintain gap crossing equipment, tools and unused materials. 3.3 Document and report faults and deficiencies in gap crossing equipment, tools and unused materials. 3.4 Store or redeploy gap crossing equipment, tools and materials.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning NA					Reading					Writing					Oral communication					Numeracy NA				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to DEFCA322 Assist in the construction of dry gap crossings.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Companion Volume implementation guides are found in VETNet -

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Assessment Requirements for DEFMIL093 Assist in the construction of dry gap crossings

Modification History

Release	Comments
1	These Assessment Requirements were released in DEF Defence Training Package release 1.0 and meet the Standards for Training Packages. • Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- selecting and using tools and equipment appropriate to the task
- following instructions/directives and reporting information
- assisting in the construction of at least two dry gap crossings using two types of dry gap crossing bridging equipment:
 - multiple or single span gap crossing equipment
 - fixed clear span equipment
 - non equipment bridging
 - improvised and/or expedient materials
 - suspended cable equipment
 - aerial ropeways
- participating in the construction of:
 - at least one bridge of not less than fifteen metres span
 - at least one bridge constructed at night
- preparing the work site
- checking components, tools and equipment
- operating construction equipment

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- WHS workplace and equipment safety requirements
- materials handling while operating tools
- site safety while working with plant
- composition of teams and roles and responsibilities of team members

Assessment Conditions

Competency should be demonstrated under field conditions over a time frame that allows for individuals to be assessed in the various tasks related to the construction of at least two dry gap crossings using two types of equipment, in the workplace or in a simulated workplace environment. Specifically, access is required to the following resources:

- selected dry gap crossing equipment and components (multiple or single span gap crossing equipment, fixed clear span equipment, non-equipment bridging, improvised and/or expedient materials, suspended cable equipment, aerial ropeways)
- tools, equipment and materials required to support the construction and operation of dry gap crossing equipment
- suitable dry gap training area

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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