



Australian Government

DEFMIL092 Assist in the construction of wet gap crossings

Release: 1

DEFMIL092 Assist in the construction of wet 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 DEFCA321 Assist in the construction of wet 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 plan and prepare for wet gap crossing operations, construct gap crossing equipment, and maintain and clean up site and equipment.

Equipment may include:

- floating support bridges
- fixed floating span equipment
- ferry equipment (captive and free)
- floating support bridge
- rafts
- improvised floating structures
- any other to cross rivers and other wet gaps to facilitate the movement of personnel, vehicles, cargo and equipment

Wet gap crossing is defined as a bridge that is physically supported by the water, i.e. through pontoons and associated buoyancy measures. Bridges will normally be constructed on a temporary basis to meet the operational need to provide a crossing point over a gap for personnel 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 those working as combat engineer personnel required to assist in the preparation, construction, operation and recovery of wet gap crossing bridging equipment, including floating support bridges, to cross rivers and other wet gaps to facilitate the movement of personnel, vehicles, cargo and equipment 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 work as part of a team, under supervision, but may undertake some autonomous tasks. They would perform routine tasks in a broad range of contexts that could be unpredictable.

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 wet gap crossing operations	1.1 Select and wear appropriate personal protective equipment. 1.2 Conduct site layout and preparation. 1.3 Check all wet gap crossing bridging components against the inventory and materials list and prepare for operation. 1.4 Report component, tool and equipment faults and deficiencies to the supervisor. 1.5 Select tools and equipment required for the task, check them for serviceability.
2. Construct a wet gap crossing	2.1 Assemble and adjust jigs, fixtures and equipment to be used in construction. 2.2 Assemble and check bridge components 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 to another site 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 DEFCA321 Assist in the construction of wet 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 DEFMIL092 Assist in the construction of wet 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.

- interpreting plans and job instructions
- manually handling construction materials and heavy bridging components
- working with plant
- following instructions/directives and report information
- participating in teams
- encouraging other team members
- using a variety of verbal and non-verbal communication techniques including language style, active listening
- assisting in the construction of at least two wet gap crossings anchorages
- participating in the construction of:
 - one gap crossing with a span of at least thirty metres
 - one crossing at night
- preparing a crossing site
- checking components, tools and equipment for serviceability and completeness
- participating in the assembly, construction operation and recovery of various types of crossing systems
- communicating effectively and work as part of a team
- 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
- anchorage systems, knots and lashings
- techniques for supporting others
- composition of teams and roles and responsibilities of team members
- verbal and non-verbal communication techniques including language style, active listening

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

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

Links

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