



Australian Government

NWPSOU006 Develop and manage a flood plan

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to develop and manage a flood plan.

It includes analysing and modelling data relating to flooding, developing effective management and warning systems and communicating outcomes concisely. It also includes applying and adhering to relevant legislation, industry regulations and workplace procedures.

This unit applies to those working as leaders with responsibility for the preparation of flood management strategies and flood warning systems. Those undertaking this unit would work autonomously with leadership responsibilities, while performing complex tasks in familiar contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

Source

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for flood operations

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Access and interpret historical rainfall run-off and flooding regimes of specific catchments

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| | 1.2 | Collate and analyse simulated, hypothetical and estimated rainfall intensity data and model catchment |
| | 1.3 | Estimate and record flood levels, extents and flow rates |
| | 1.4 | Identify and interpret storage asset specifications including regulatory requirements, industry standards and workplace procedures |
| | 1.5 | Identify resources, environment and stakeholders at risk during a flood event |
| 2 | Develop a flood plan | |
| | 2.1 | Consult with stakeholders to obtain input for flood planning |
| | 2.2 | Develop and document a plan for managing the flood impact on a storage asset |
| | 2.3 | Confirm performance measures for flood operations |
| | 2.4 | Develop plan components and activities for implementation |
| | 2.5 | Develop a flood plan according to relevant legislation, industry standards, workplace procedures and environmental requirements |
| 3 | Monitor and evaluate flood plan | |
| | 3.1 | Assess and record a flood event according to industry standards and workplace procedures |
| | 3.2 | Evaluate the roles of storage and retarding basins safety and flood attenuation strategies |
| | 3.3 | Evaluate current flood classifications and impacts according to flood plan |
| | 3.4 | Formulate planning controls for flood plain and waterway management |
| | 3.5 | Evaluate current flood warning systems according to flood plan |
| | 3.6 | Recommend and develop changes to existing flood plain and waterway management controls and warning systems |
| 4 | Report on implementation of the plan | |
| | 4.1 | Collate, analyse and record information according to workplace procedures |

- 4.2 Prepare and present reports to relevant persons
- 4.3 Communicate findings and recommendations to stakeholders according to workplace procedures and relevant regulations

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This unit replaces but is not equivalent to NWPSOU028 Prepare and report on data related to flood operations.

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>