



Australian Government

NWPAMG001 Manage asset construction and maintenance

Release: 1

NWPAMG001 Manage asset construction and maintenance

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 manage asset construction and maintenance.

It includes preparing for asset construction, planning construction operations and implementing quality assurance measures.

This unit applies to leaders in organisations with responsibility for the construction and maintenance of water, wastewater, channels, drains and components industry assets.

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

Pre-requisite Unit

Not applicable.

Competency Field

Asset Management

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for asset construction

PERFORMANCE CRITERIA

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

1.1 Identify and apply site investigation and construction guidelines, regulatory requirements and workplace procedures

1.2 Consult with stakeholders and identify and address

- requirements and issues impacting construction
- 1.3** Determine and document work requirements, materials and configurations according to plans, specifications, instructions and workplace procedures
 - 1.4** Conduct worksite inspections according to workplace procedures and risk management guidelines
 - 1.5** Collate and check project documentation and assess for impact on work planning and management
 - 1.6** Identify and investigate potential hazards and safety risks and report recommendations for preventative action according to organisational requirements
 - 1.7** Identify and specify roles and responsibilities of relevant personnel and stakeholders
 - 1.8** Identify and check construction and maintenance guidelines, industry standards and other regulatory requirements
- 2 Plan construction operations**
- 2.1** Identify organisational strategies for implementing construction operations
 - 2.2** Implement workplace health and safety (WHS) policy and procedures, including hazard and risk management
 - 2.3** Implement procedures for securing relevant plant and equipment
 - 2.4** Determine personnel requirements according to work plan and contract documentation
 - 2.5** Evaluate, select and source materials to complete work
 - 2.6** Sequence and schedule work to meet workplace requirements and completion timeframes
- 3 Implement quality assurance measures**
- 3.1** Conduct inspections to ensure progressive and finished work meets required standards, operational capability and stakeholder requirements
 - 3.2** Provide guidance to contractors/personnel according to workplace procedures
 - 3.3** Monitor construction activities to ensure compliance with WHS and environmental regulations

- 3.4** Monitor construction progress and maintain records according to workplace procedures and industry standards
- 3.5** Communicate changes to meet unforeseen requirements, reallocation of resources and rescheduling to reduce impacts
- 3.6** Confirm and certify completion of construction and installation according to workplace procedures and industry standards
- 3.7** Write progress and completion reports and communicate with relevant personnel according to workplace procedures

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 is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Assessment Requirements for NWPAMG001 Manage asset construction and maintenance

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- completing progress and completion reports
- completing relevant documentation for coordinating and monitoring asset construction and maintenance
- conducting worksite inspections, identifying potential risks and implementing control measures
- consulting with stakeholders and identifying requirements for asset construction and maintenance
- determining and documenting work requirements, materials and resources for project
- identifying and specifying roles of relevant personnel
- identifying defects and taking measures to rectify
- managing a construction or maintenance project on an asset
- selecting and sourcing materials and resources to complete asset construction and maintenance

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- assets system operations
- communication techniques
- project planning requirements
- supervision techniques
- relevant policies and procedures including:
 - codes of practice
 - industry standards
 - legislation
 - material handling
- workplace documentation associated with asset construction and maintenance including:
 - instructions

- plans
- risk management guidelines
- specifications
- work requirements
- workplace procedures

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations. Where this is not appropriate, assessment must occur in suitable simulated workplace operational situations reflecting actual workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment currently used in industry
- applicable relevant documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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