



Australian Government

Department of Education, Employment and Workplace Relations

NWP50107 Diploma of Water Operations

Revision Number: 2

NWP50107 Diploma of Water Operations

Modification History

NWP50107 Release 2:	Layout adjusted. No changes to content.
NWP50107 Release 1:	Primary release.

Description

The Diploma of Water Operations supports candidates seeking competency and requiring increasingly specialised technical skills or those who require a broad range of skills. To achieve this qualification the candidate must demonstrate competency in seven units, comprising two core and five elective units of competency.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Qualification code: NWP50107

Qualification title: Diploma of Water Operations

The following table contains a summary of the employability skills as identified by the water industry for this qualification. The employability skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include the following facets:
Communication	<ul style="list-style-type: none">communicates the development, implementation and maintenance of:<ul style="list-style-type: none">OHS policies and proceduresenvironmental policies and proceduresa range of relevant water management policies and procedurescommunicates effectively with a range of people, including staff, contractors and customersinterprets a range of complex and technical documents, including relevant:<ul style="list-style-type: none">regulatory, legislative, licensing and organisational requirementscodes and standardsdevelops and communicates a range of complex and technical documents, including relevant:<ul style="list-style-type: none">specificationsorganisational policies and proceduresunderstands relevant definitions, terminology, symbols and languagediscusses organisational issuesconducts community consultationreports and records hazards and riskstakes a leadership role in ensuring workforce compliance with standards, regulations and policiesmaintains and checks records and documentsarticulates complex ideas clearlyanalyses and evaluates reports and reference materials
Teamwork	<ul style="list-style-type: none">demonstrates leadership within work teams and business unitscollaboratively and effectively develops and implements operational plansworks collaboratively with relevant stakeholdersdefines and explains responsibilities and accountabilitiessupervises and checks others' work, monitors work processes and ensures safe work practices

Employability Skill	Industry/enterprise requirements for this qualification include the following facets:
	<ul style="list-style-type: none"> • facilitates production of and produces workplace documentation that ensures effective workforce performance • coordinates a range of team members and activities • relates positively to fellow workers and the management team
Problem solving	<ul style="list-style-type: none"> • responds effectively to hazards, risks and emergencies • develops plans geared to minimising risks and hazards • collates, manipulates and interprets data • applies techniques for flood estimation to flood estimation guidelines • conducts consultations • oversees processes within the water industry to ensure the effective and continuous provision of water services • analyses problems and applies appropriate remedial solutions • uses and analyses complex data in decision making
Initiative and enterprise	<ul style="list-style-type: none"> • proactively manages and supervises effective customer service strategies and tactics • establishes best practice procedures for the implementation of management plans • identifies work processes and practices to improve organisational performance • recommends changes to plan objectives and operational procedures • defines and quantifies responsibilities and accountabilities • identifies complex faults and problems and takes necessary remedial action • considers information about known impacts, risk assessments and control procedures in preparing plans • modifies policies and plans to incorporate identified and required changes • identifies opportunities for improved water management
Planning and organising	<ul style="list-style-type: none"> • leads effective implementation of organisation's operational plans • plans and participates in effective delivery of services • plans processes • develops and checks contingency plans for new types of industries or processes • incorporates issues identified by reviews and audits into management plan • prepares and presents management policies and plans • reviews management policies against objectives, policies and plans

Employability Skill	Industry/enterprise requirements for this qualification include the following facets:
	<ul style="list-style-type: none"> implements emergency action plans according to management plans monitors activities to ensure compliance with approvals prepares and plans for trade waste management schedules and conducts on-site inspections manages workplace contracts
Self management	<ul style="list-style-type: none"> manages own performance to ensure required levels of service standards, work quality and professional competence manages work priorities identifies and recommends opportunities for performance improvements according to management plans reviews objectives of the management and implementation plans defines and quantifies responsibilities and accountabilities uses feedback to improve own performance
Learning	<ul style="list-style-type: none"> seeks feedback on personal performance uses information effectively to improve work performance identifies and assesses legislative, organisational and environmental requirements that impact on work system regularly reviews and assesses records to identify long-term trends and impacts learns from colleagues as part of effective teamwork
Technology	<ul style="list-style-type: none"> uses IT systems to manage and communicate planning process uses complex water system management technology models simulated, hypothetical or estimated rainfall intensity data and catchment characteristics understands capabilities and limitations of organisation's plant, equipment and tools uses technology to improve efficiency and effectiveness of managing work

The high proportion of electives required by this qualification means that the facets of the above employability skills are representative of the water industry in general and may not reflect specific job roles. Learning and assessment strategies for this qualification should be based on the requirements as identified in units of competency that meet packaging guidelines. This table is a summary of employability skills that are typical of this qualification and should not be interpreted as definitive.

Packaging Rules

7 units of competency are required for this qualification including:

- 2 core units
- 5 elective units

Choose a minimum of 3 elective units from the list below.

Choose the remaining 2 units from either the list below, **or** elsewhere in this Training Package, **or** another endorsed Training Package, **or** Accredited Course.

All elective units selected from outside this qualification must be selected from qualifications aligned to AQF level 4, 5, or 6. However, **only one** unit may be imported from another endorsed Training Package or Accredited Course at AQF level 4 or AQF level 6.

Elective units selected must not duplicate content already covered by other units in this qualification.

Specialisations are possible within this qualification. Details and examples of specialisation rules are included under the Industry Specialisation heading in the Qualification Framework section of this Training Package.

Core	
PSPSOHS501A	Participate in the coordination and maintenance of a systematic approach to managing OHS
NWP505B	Implement and monitor environmental management policies, plans, procedures and programs
Electives	
NWP504A	Collect and manage hydrometric station survey data
NWP508A	Apply principles of hydraulics to pipe and channel flow
NWP509A	Collect, verify and report hydrometric time series data
NWP510A	Develop and maintain ratings
NWP511B	Manage large dam safety surveillance
NWP512B	Implement and manage catchment management plan
NWP513B	Develop and review catchment management plan
NWP514B	Implement and manage groundwater management plan
NWP515B	Develop and review groundwater management plan
NWP516B	Implement and manage surface water management plan
NWP517B	Develop and review surface water management plan
NWP518B	Prepare and report on data related to flood mitigation
NWP519B	Develop and report flood mitigation

NWP520A	Contribute to hydrometric planning and water resource management
NWP525B	Implement and manage asset construction and maintenance
NWP527B	Conduct commissioning and post-commissioning activities
NWP528B	Implement and manage trade waste policies and plans
NWP529B	Develop and modify trade waste management policies and plans
NWP530B	Implement and manage the operation and maintenance of irrigation delivery systems
NWP531B	Develop and review irrigation system management plan
NWP532B	Implement and manage potable water system management plan
NWP533B	Develop and review potable water system management plan
NWP534B	Implement and manage drainage system management plan
NWP535B	Develop and review drainage system management plan
NWP536B	Implement and manage wastewater collection management plan
NWP537B	Develop and review wastewater collection management plan
NWP545B	Implement and manage water treatment processes monitoring program
NWP546B	Develop and review water treatment processes management plan
NWP547B	Implement and manage wastewater treatment processes monitoring program
NWP548B	Develop and review wastewater treatment management plan
NWP551A	Evaluate, implement and monitor high-risk trade waste discharge approvals
NWP552	Apply mathematical solutions to engineering problems
NWP553	Apply scientific principles to engineering problems
NWP554	Apply surveying computations to civil engineering projects
NWP555	Apply construction principles to civil engineering works
NWP556	Apply environmental solutions to engineering projects

NWP557	Apply surveying for civil engineering projects
NWP558	Use computer aided drafting systems
NWP559	Apply principles of mechanics to engineering problems
NWP560	Apply principles of strength of materials to engineering problems
BSBFIM501A	Manage budgets and financial plans
BSBMGT515A	Manage operational plan
CPPSIS4002A	Store and retrieve spatial data
CPPSIS5002A	Capture new spatial data
CPPSIS5010A	Collate and interpret spatial data
LGAWORK501A	Prepare preliminary design for operational works
LGAWORK502A	Prepare detailed works project documentation
LGAWORK503A	Undertake project investigation
PSPPROC506A	Plan to manage contracts