

NWP30219 CERTIFICATE III IN WATER INDUSTRY OPERATIONS

Entura's water industry operations course provides participants with a mixture of classroom theory, distance learning as well as practical demonstrations and assessment of water quality testing to prepare staff to safely and efficiently operate and control water and wastewater treatment plants. We work closely with Water Industry Training Consultants (WITC) who deliver the training and assessment activities for this course on our behalf.

The course includes site visits to a range of operating treatment plants for the collection and interpretation of operating aspects of treatment. This is assisted by transferring the practical and operational knowledge of experienced operational staff to the trainee operator in a structured and certified program. Mentor support from your organisation also provides for further customisation of the training program.

The 'essential knowledge and skills' will be provided in a classroom environment. This formal component of the training can be completed by undertaking a range of off-the-job training courses over a 12 to 18 month period. This typically involves 20-25 days of off-job training and completion of Core Units by Distance Learning. The time involved will be dependent on the units chosen.

Trainees will need to be mentored by appropriate senior staff who will need to sign off third party evidence validating on-the-job application of skills in each Unit completed. This evidence is provided on a Workplace Evidence Report Form for each unit. This requires the trainee to gain operating experience for each treatment process for which competency is sought.

Assessment of knowledge and process calculations is through completion of open book theory and calculations assessments and where required, the trainee is given further time to study and/or research these requirements. The assessment events will occur on a regular basis to track activity and to provide support.

Participants gaining this qualification will be able to complete work functions required to competently operate and control treatment plant processes depending on the specialisation chosen.

There are 3 specialisations as follows-

1. General qualification reflecting the skills required to monitor operate and control drinking water, wastewater and recycled water;
2. Drinking water specialisation reflecting the skills required to monitor operate and control treatment processes within a drinking water treatment plant;
3. Wastewater specialisation reflecting the skills required to monitor operate and control treatment processes within a wastewater treatment plant.

COMPLETION REQUIREMENTS

Eleven units of competency are required for this qualification including:

- two core units
- nine elective units (from 5 Groups and Flexible Choice)

Choose units from the Certificate III list overleaf as follows-

Group A: Work health and safety - choose 1

Group B: Sampling and testing - choose at least 1

Group C: Drinking Water - choose at least 4

Group D: Wastewater - choose at least 4

[General qualification - choose at least 3 from Groups C and D, with no more than 2 from any on group]

Flexible Choice: choose remaining units from this package, or up to 2 from another endorsed package or course.

A selection of units available relating to water and wastewater treatment is provided overleaf. Other units can be considered from the full qualification as listed on <https://training.gov.au/>.

CORE COMPETENCY STANDARD UNITS

All core competency standard units to be achieved

NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN019	Assess, implement and report environmental procedures

ELECTIVE COMPETENCY STANDARD UNITS

(Choose nine units in line with elective rules)

GROUP A: WORK HEALTH AND SAFETY	
BSBWHS308	Participate in WHS hazard identification, risk assessment and risk control processes
GROUP B: SAMPLING AND TESTING	
NWPGEN020	Sample and test source or drinking water
NWPGEN021	Sample and test wastewater
GROUP C: DRINKING WATER	
NWPTRT009	Operate and control coagulation and flocculation processes
NWPTRT010	Operate and control sedimentation and clarification processes
NWPTRT016	Operate and control dissolved air flotation processes
NWPTRT019	Operate and control granular media filters
NWPGEN022	Perform laboratory testing
GROUP D: WASTEWATER	
NWPTRT036	Operate and control activated sludge processes
NWPTRT037	Operate and control nutrient removal processes
NWPTRT039	Operate and control solids handling processes
NWPTRT040	Operate and control digestion processes
NWPTRT047	Monitor, operate and control lagoon processes

FLEXIBLE CHOICE

NWPTRT005	Monitor and operate water treatment processes
NWPTRT006	Monitor and operate fluoride addition process
NWPTRT007	Monitor and operate liquefied chlorine gas disinfection processes
NWPTRT027	Monitor and operate wastewater processes
NWPTRT029	Monitor and operate pre-treatment processes