

NWP30315 CERTIFICATE III IN WATER INDUSTRY TREATMENT

Entura's water industry treatment 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 one 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 www.training.gov.au.

CORE COMPETENCY STANDARD UNITS

All core competency standard units to be achieved

NWPGEN001	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN004	Assess, implement and report environmental procedures

ELECTIVE COMPETENCY STANDARD UNITS

(Choose nine units in line with elective rules)

GROUP A: WORK HEALTH AND SAFETY	
BSBWHS303	Participate in WHS hazard identification, risk assessment and risk control
GROUP B: SAMPLING AND TESTING	
NWPGEN007	Sample and test drinking water
NWPGEN008	Sample and test wastewater
GROUP C: DRINKING WATER	
NWPTRT015	Operate and control coagulation and flocculation processes
NWPTRT031	Operate and control sedimentation and clarification processes
NWPTRT033	Operate and control DAF processes
NWPTRT041	Operate and control granular media filters
NWPGEN009	Perform laboratory testing
GROUP D: WASTEWATER	
NWPTRT081	Operate and control activated sludge processes
NWPTRT082	Operate and control nutrient removal processes
NWPTRT091	Operate and control solids handling processes
NWPTRT092	Operate and control digestion processes
NWPTRT101	Operate and control lagoon processes

FLEXIBLE CHOICE

NWPTRT001	Operate and control water treatment processes
NWPTRT061	Operate and control wastewater processes
NWPTRT012	Operate and control fluoride addition process
NWPTRT013	Operate and control liquefied chlorine gas disinfection
NWPTRT071	Operate and control pre-treatment processes